

Quality  
Environment  
Health And Safety



Green Electronics

**Terminal  
blocks &  
Plurima**



**Connectors**



**Accessories**



MIIS® Catalogue



**Sauro®**  
**ELECTRONIC CONNECTORS**  
*by the law*



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SAURO was founded in Padua, Italy in 1984. We design and manufacture both our high quality PCB terminal blocks and connectors and the machines and automated systems which manufacture them.

100% engineered and manufactured in ITALY



## Accessories

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## Fields of application



Charging station



Green Energy



Safety and Security



Industry



HVACR



Factory Test and Measurement



Process Automation and Utility Management



Building Technology



Control Devices



Lighting



Oil and Gas



Medical



Power Electronics



Home Automation & Domotics  
compliant to EN 60335-1



Wireless Connection Devices

# Connect with confidence, we take care of the rest



ISO  
9001



ISO  
14001



ISO  
45001

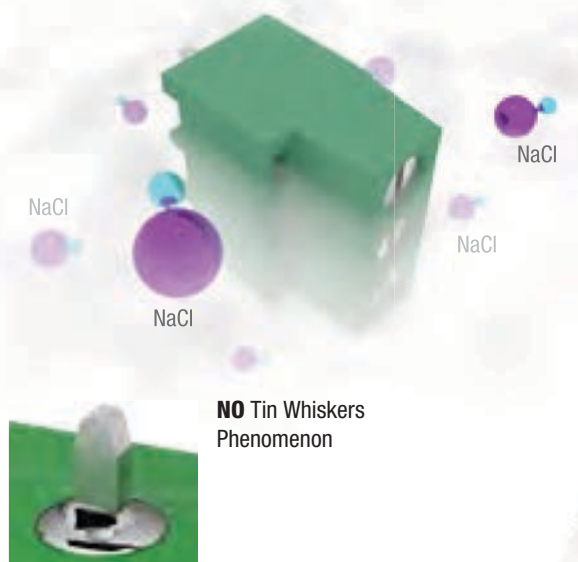


## By the law

SAURO has always demonstrated the highest respect for human health and safety and for the environment by obtaining ISO 9001, 14001 and 45001 certification and with compliance to the REACH regulation and RoHS directive. Sauro embraces the fight against violence, human rights violations and environmental degradation, which is why we only source from suppliers who can guarantee that they are Conflict Mineral Free. Moreover, having obtained the most prestigious international agency approvals (UL, CSA, VDE, IMQ) confirms compliance with high quality standards.

## Strategy

All production, from individual components to finished products is done at the headquarters in Padua, Italy. Machines, assembly lines and molds are all designed and built in-house. SAURO has always provided products that are fully tested on the production line allowing the customer a guarantee of zero functional defects.



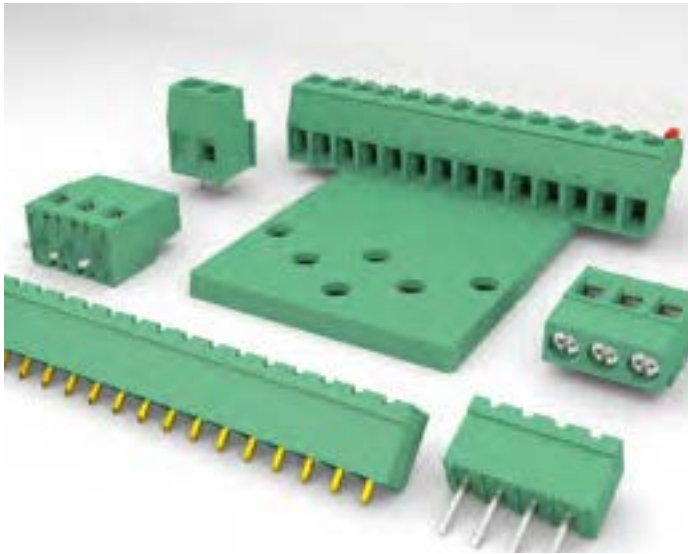
**GWIT:**  
775 °C  
IEC 60335-1



## Choice of materials

The high quality of SAURO products is guaranteed by the attentive choice of materials and the continuous research and development with raw material suppliers of innovative and better performing materials. The Insulating material is phosphorus, dioxins, halogen and antimony trioxide free and it is VO class self-extinguishing according to UL94 certification. It is also GWIT (Glow Wire Ignition Temperature) classified at 775°C and therefore suitable for use in domestic appliances subject to European Standard EN 60335-1. All products are suitable for use in harsh environments and operating conditions since metallic components are made exclusively in special copper alloys. In addition, products with spring clamping technology can be used in environments where ammonia is present (NH<sub>3</sub>) thanks to the use of stainless steel. Characteristically the properties of SAURO products remain unchanged in time maintaining the maximum safety and reliability.

# Smart and customer-specific solutions



## Design-in

Due to the flexibility of our molding tools and SAURO's philosophy of being oriented towards customer needs, the insulating housings and metallic components can be designed and manufactured according to the customer required specification.

Examples include: non-fundamental geometric changes, closed product base, closed wire entry, addition of cable clip, customized pin length, special plating, various screw head types and more.

## Colors & Marking

The standard color of traditional products (manual or wave soldering) is green, and for STH® products (for high temperature reflow soldering) is black. Different colors are available upon request. SAURO offers pad printing using a bi-component ink, obtaining characters with the highest possible readability that are also indelible and scratch resistant.



## Accessories

Various accessories are offered separately or already mounted to the SAURO product. Examples include coding clips and splines, bridges for short circuits and occluders. Thanks to modular molds of the insulating housing, the coding clips and splines can be replaced by integrated coding of the insulating body, and pole closures can be done by molding instead of loosely inserted occluders.

## Packaging solutions

All products can be supplied according to customer requirements or to the assembly process on the PCB. Packaging in kits, for example, allows for simplified product handling, shipping, storage and assembly, as well as reduced risk of error. Moreover, depending on the PCB assembly requirement, products can be supplied in aligned tray and tube packaging (ideal for semi-automated assembly) or in tape on reel and cell tray (ideal for automated assembly).

# From standard product to STH<sup>®</sup>: our evolution and its

Materials

PCB assembly

Soldering process

STANDARD



Traditional polyamide PA6.6



Manual assembly process



Wave and manual soldering

STH<sup>®</sup>



30% glass fibre reinforced and MSL1 (Moisture Sensitivity Level 1) rated polyamide: no moisture absorption



Automated assembly process using gripper or vacuum system



Reflow soldering



## Benefits

Products withstand the high temperatures of reflow ovens and do not require any moisture barrier bag or drying process before going in to the oven.



## Benefits

For high volume usage the automated assembly process is the most reliable, convenient and efficient choice.



## Benefits

STH<sup>®</sup> products can be soldered in the reflow oven together with all other SMD products eliminating the additional wave soldering process and all the intermediate storages.

# advantages!

## Packaging

## Furthermore

## Future



Bulk

### What we need?

- Intermediate storage
- Manual assembly
- Wave or manual soldering process

STH<sup>®</sup>



Through hole reflow technology



Tape on reel

### We do not need!

- PAD
- Intermediate storage
- Manual assembly
- Moisture barrier bag or drying process
- Wave soldering process

SMT

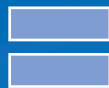


Surface Mount Technology



### Benefits

Tape on reel packaging is the best method of product placement for automated assembly on the PCB.



Factory's work space and time reduced by

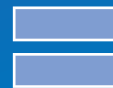
**70%**

Respect to STANDARD



### Benefits

SAURO SMD products have been designed to offer small and smart solutions when the dominant requirement is compactness and miniaturization.




































Factory's work space and time reduced by

**75%**

Respect to STANDARD

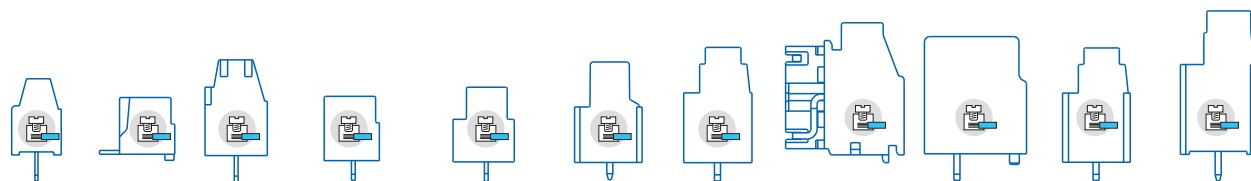
# Terminal blocks

! drawings are in 1.1 scale

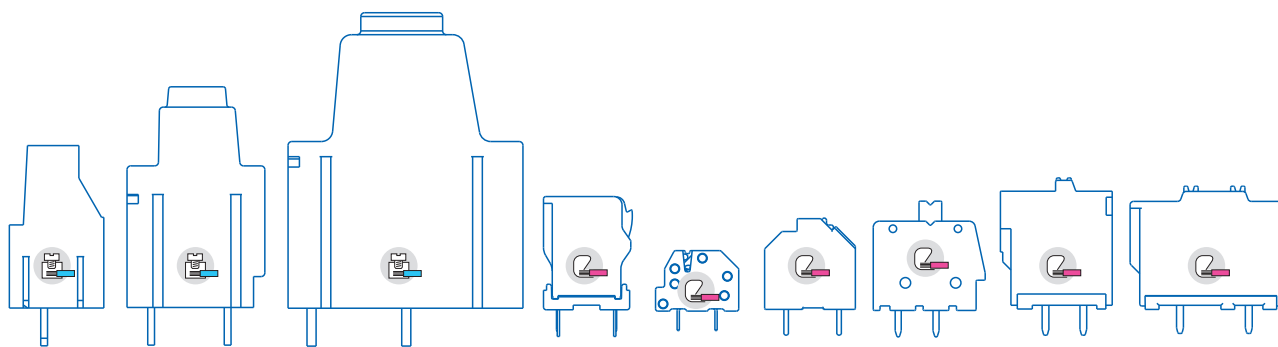
	<b>MSD</b>	10	
	<b>MBBD-MBBH</b>	11	
	<b>MTS</b>	12	
		<b>MTB-MTBH-MTBD</b>	13-14
		<b>MSB-MSBH-MSBD</b>	15-16-17
		<b>MSG-MSGH</b>	18-19
		<b>MSM-MSMH</b>	20-21
		<b>MSMH N.</b>	22
		<b>MSFH</b>	23
		<b>MSS-MSSH</b>	24-25
		<b>MSQ-MSQH</b>	26-27
		<b>MSP-MSPH</b>	28
		<b>MPS</b>	29
		<b>MPP</b>	30
		<b>MMT-MMTH</b>	31
		<b>MCBH-MCBD</b>	32
		<b>MCCH</b>	33
	<b>MCM</b>	34	
		<b>MCMH</b>	35
		<b>MCQ-MCQH</b>	36-37
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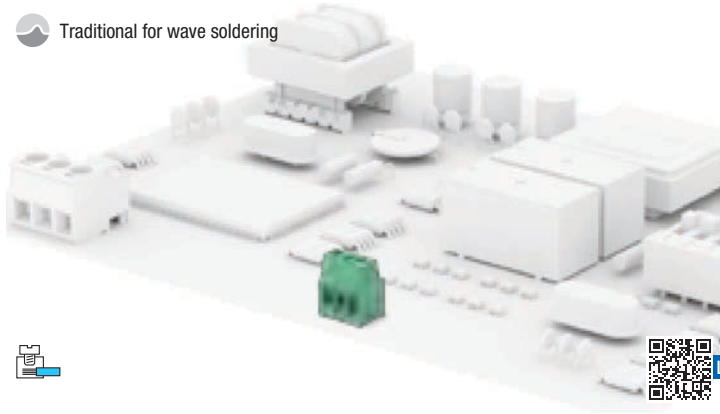


Serie	MSD	MBBD-MBBH	MTS	MTB-MTBH-MTBD	MSB-MSBH-MSBD	MSG-MSGH	MSM-MSMH	MSMH N.	MSFH	MSS-MSSH	MSQ-MSQH
Height	10 mm .394 in	7.5 mm .295 in	12.6 mm .496 in	8.5 mm .335 in	10 mm .394 in	13.5 mm .531 in	15.2 mm .598 in	17.05 mm .671 in	15.5 mm .610 in	15.2 mm .598 in	19 mm .748 in
Pitch mm/in.	2.54 .100	x									
	3.5 .138		x	x							
	3.81 .150	x	x	x							
	5 .197				x	x	x	x		x	x
	5.08 .200	•			x	x	x			x	x
	6.35 .250										
	7 .276		•	•							
	7.5 .295						•	•		•	•
	7.62 .300	•	•	•			•	•	•	•	•
	9.52 .375										
	10 .394					•	•	•		•	•
	10.16 .400					•	•	•		•	•
12.7 .500											
15 .591											•
Wire section mm <sup>2</sup>	0.05÷1	0.05÷0.75	0.05÷1.5	0.05÷1.5	0.05÷1.5	0.05÷2.5	0.05÷2.5	0.05÷2.5	0.05÷2.5	0.05÷2.5	0.05÷4
Wire section AWG	30÷16	28÷18	30÷14	28÷16	30÷16	30÷14	30÷12	30÷12	30÷12	30÷12	30÷12
Rated current	12 A	9 A	17.5 A	17.5 A	17.5 A	24 A	24 A	24 A	24 A	24 A	32 A
Rated voltage	150 V (x) 300 V (•)	300 V (x) 600 V (•)	300 V (x) 750 V (•)	300 V (x) 750 V (•)	300 V (x) 750 V (•)	300 V (x) 750 V (•)	300 V (x) 750 V (•)	300 V (x)	750 V (•)	300 V (x) 750 V (•)	300 V (x) 750 V (•)
Soldering type	☉	☉ ☀ ☁	☉	☉ ☀ ☁	☉ ☀ ☁	☉ ☀ ☁	☉ ☀ ☁	☉ ☀	☉ ☀ ☁	☉ ☀ ☁	☉ ☀ ☁



Serie	MSP-MSPH	MPS	MPP	MMT-MMTH	MCBH-MCBD	MCCH	MCM-MCMH	MCQ-MCQH	MCQ D.-MCQH D.
Height	21.5 mm .846 in	29.3 mm 1.154 in	39 mm 1.535 in	14.85 mm .585 in	8 mm .315 in	12 mm .472 in	14.45 mm .569 in	17.9 mm .705 in	17.3 mm .681 in
Pitch mm/in.	2.54 .100				x	x			
	3.5 .138				x				
	3.81 .150					x			
	5 .197					x	x	x	x
	5.08 .200						x	x	
	6.35 .250	x			•	•			
	7 .276								
	7.5 .295							•	
	7.62 .300	x			•		•	•	
	9.52 .375	•							
	10 .394					□		•	•
	10.16 .400		•				□	•	•
12.7 .500	□								
15 .591			•						
Wire section mm <sup>2</sup>	0.05÷6	0.5÷16	0.5÷35	0.2÷1.5	0.2÷1.5	0.2÷1.5	0.2÷2.5	0.2÷2.5	0.2÷2.5
Wire section AWG	30÷10	20÷6	20÷1	30÷16	24÷16	30÷16	30÷12	30÷12	30÷12
Rated current	41 A	76 A	135 A	10 A	16 A	13.5 A	16 A	16 A	16 A
Rated voltage	450 V (x) 750 V (•) 600 V (□)	1000 V (•)	1000 V (•)	300 V (x) 750 V (•)	300 V (x) 630 V (•) 1000 V (□)	300 V (x) 630 V (•) 1000 V (□)	300 V (x) 750 V (•)	300 V (x) 750 V (•)	300 V (x) 750 V (•)
Soldering type	☉ ☀ ☁	☉ ☀	☉ ☀	☉ ☀ ☁	☉ ☀ ☁	☉ ☀ ☁	☉ ☀ ☁	☉ ☀ ☁	☉ ☀ ☁

Traditional for wave soldering



Last release



**General data**

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green
<b>Pitches:</b>	imperial 2.54 mm, 5.08 mm (.100 in, .200 in)
<b>Screw dimension:</b>	M1.6
<b>Recommended/highest tightening torque:</b>	0.1/0.15 Nm (0.88/1.33 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.1 mm (.043 in)
<b>Stripping length:</b>	4 ÷ 5 mm (.16 ÷ .197 in)
<b>Operating temp. range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**

150 V - 10 A - 30÷16 AWG - 1.73 lbf-in for 2.54 mm pitch  
 300 V - 10 A - 30÷16 AWG - 1.73 lbf-in for 5.08 mm pitch

**VDE (n. 40022747)**

125 V - 6 A - T 110 - 0.5 mm<sup>2</sup> for 2.54 mm pitch  
 250 V - 6 A - T 110 - 0.5 mm<sup>2</sup> for 5.08 mm pitch

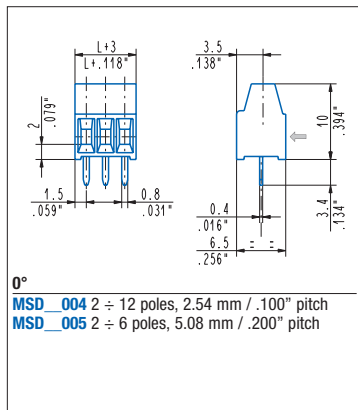
**IMQ (n. CA02.00145)**

130 V - T 110 - 12 A - 1 mm<sup>2</sup> solid (6 A - 0.5 mm<sup>2</sup> stranded) for 2.54 mm pitch  
 250 V - T 110 - 12 A - 1 mm<sup>2</sup> solid (6 A - 0.5 mm<sup>2</sup> stranded) for 5.08 mm pitch

**CSA (n. LR102896)**

150 V - 10 A - 30÷16 AWG for 2.54 mm pitch  
 300 V - 10 A - 30÷16 AWG for 5.08 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.



0°  
**MSD\_004** 2 ÷ 12 poles, 2.54 mm / .100" pitch  
**MSD\_005** 2 ÷ 6 poles, 5.08 mm / .200" pitch





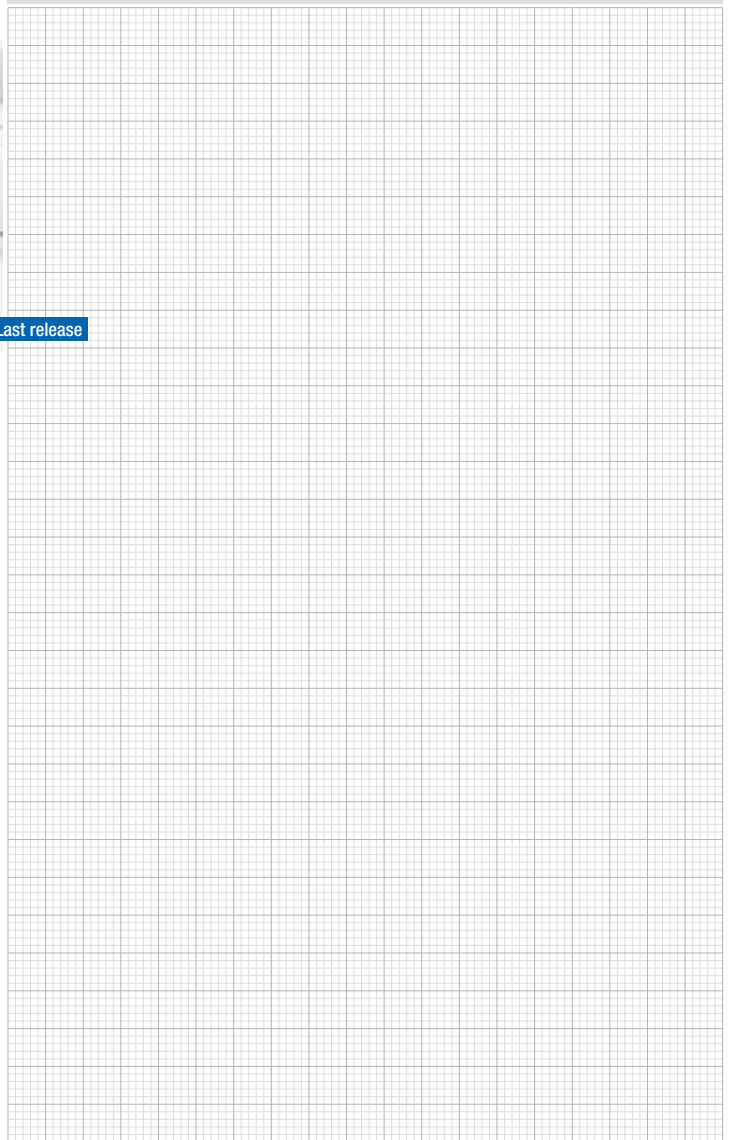
Closed clamp

Closed clamp



Last release

Your drawings and notes



**General data**

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black
<b>Pitches:</b>	imperial 3.81 mm, 7.62 mm (.150 in, .300 in)
<b>Screw dimension:</b>	M2
<b>Recommended/highest tightening torque:</b>	0.2/0.25 Nm (1.77/2.21 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter for peg:</b>	1.4 mm (.055 in)
<b>PCB hole diameter for pin:</b>	min. 1.3 mm (.051 in)
<b>Stripping length:</b>	5÷6 mm (.197 in)
<b>Operating temp. range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**

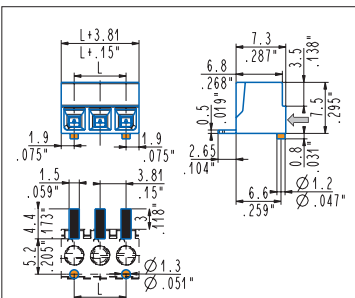
300 V group B - 7 A - 28÷18 AWG - 2.7 lbf-in for 3.81 and 7.62 mm pitch

**Data according to**

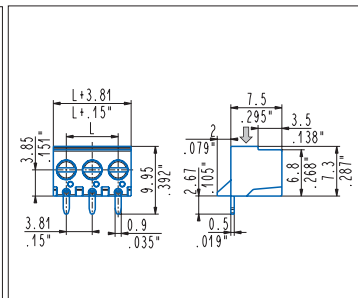
**IEC EN 60947-7-4**

160 V - 9 A - 0.75 mm<sup>2</sup> for 3.81 mm pitch  
 600 V - 9 A - 0.75 mm<sup>2</sup> 7.62 mm pitch

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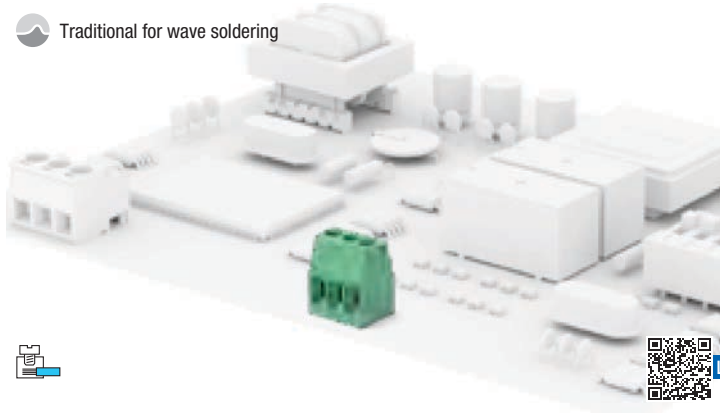
**0° fixing and positioning pegs SMD technology**  
**MBBD 0AT-ONCOP** 2÷12 poles, 3.81 mm / .150" pitch  
**MBBD 0AT-ONCOP** 2÷6 poles, 7.62 mm / .300" pitch



**90°**  
**MBBH 9AT-ONC** 2÷12 poles, 3.81 mm / .150" pitch  
**MBBH 9AT-ONC** 2÷6 poles, 7.62 mm / .300" pitch



Traditional for wave soldering



Last release

### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 3.5 mm, 7 mm (.138 in, .275 in) imperial 3.81 mm, 7.62 mm (.150 in, .300 in)
<b>Screw dimension:</b>	M2
<b>Recommended/highest tightening torque:</b>	0.25 Nm (2.21 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.1 mm (.043 in)
<b>Stripping length:</b>	5 ÷ 6 mm (.197 ÷ .24 in)
<b>Operating temp. range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 12 A - 30÷14 AWG - 2.2 lbf-in for for 3.5 mm, 3.81 mm, 7 mm and 7.62 mm pitch

#### VDE (n. 40021759)

130 V - 12 A - T 110 - 1 mm<sup>2</sup> for 3.5 mm and 3.81 mm mm pitch

450 V - 12 A - T 110 - 1 mm<sup>2</sup> for 7 mm and 7.62 mm pitch

#### IMQ (n. CA02.00146)

130 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (12 A - 1 mm<sup>2</sup> stranded) - 0.25 Nm for 3.5 mm and 3.81 mm pitch

750 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (12 A - 1 mm<sup>2</sup> stranded) - 0.25 Nm for 7 mm and 7.62 mm pitch

#### CSA (n. LR102896)

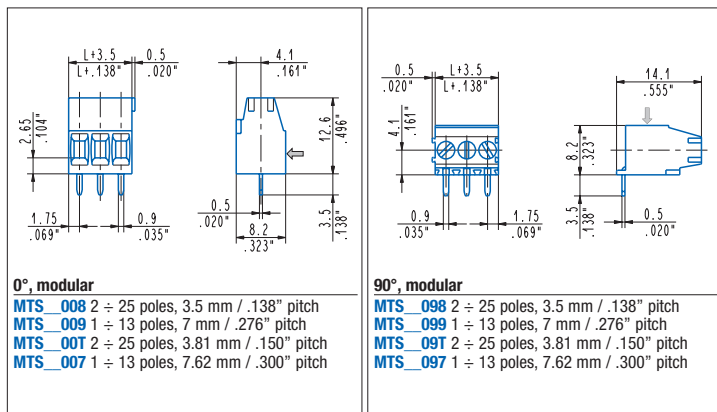
300 V - 12 A - 30÷14 AWG for for 3.5 mm, 3.81 mm, 7 mm and 7.62 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

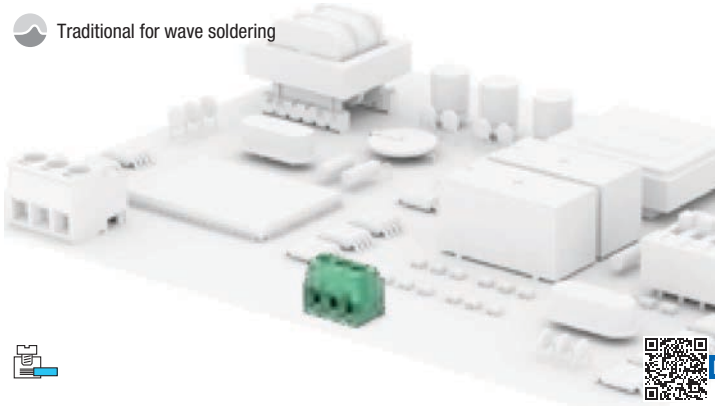
A higher number of poles is obtained by combining together **modular** parts.



In order to protect terminals during transport, the product in box is packaged in row trays.

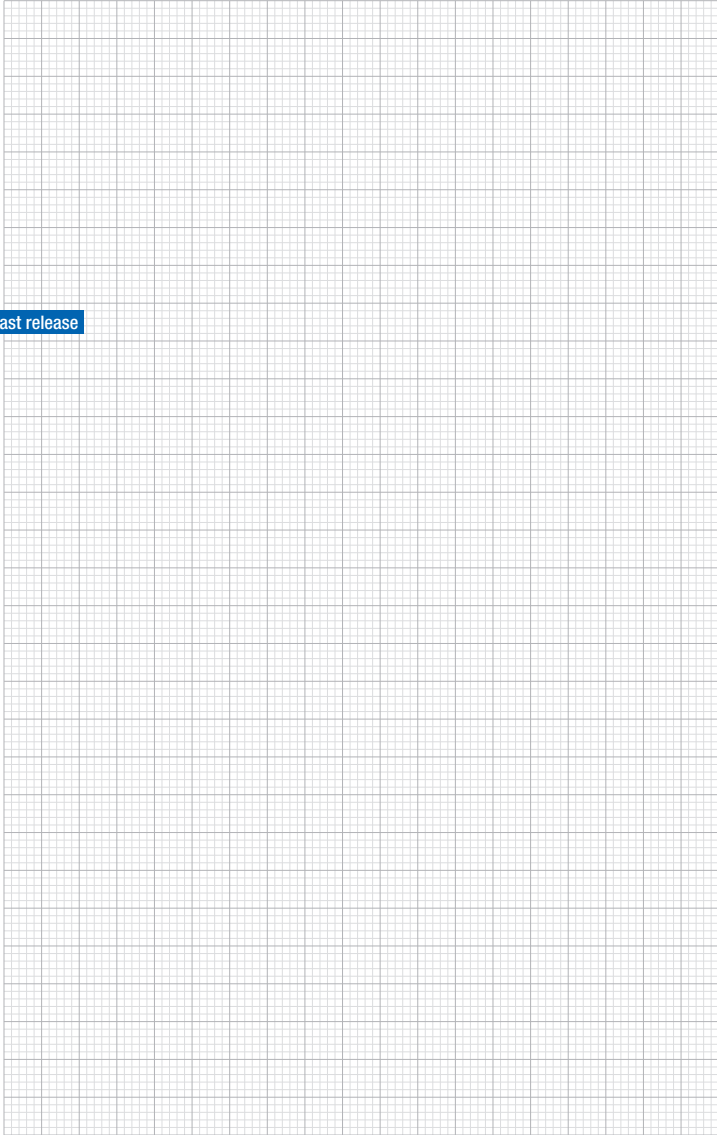


Traditional for wave soldering



Last release

Your drawings and notes



### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 3.5 mm, 7 mm (.138 in, .275 in) imperial 3.81 mm, 7.62 mm (.150 in, .300 in)
<b>Screw dimension:</b>	M2
<b>Recommended/highest tightening torque:</b>	0.2/0.25 Nm (1.77/2.21 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.2 mm (.047 in)
<b>Stripping length:</b>	5÷6 mm (.197 in)
<b>Operating temp. range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 12 A factory wiring (10 A field wiring) - 28÷16 AWG - 2.7 lbf-in for for 3.5, 3.81, 7, 7.62 mm pitch

#### VDE (n. 40021761)

130 V - 12 A - T 110 - 1 mm<sup>2</sup> for 3.5 mm and 3.81 mm mm pitch

450 V - 12 A - T 110 - 1 mm<sup>2</sup> for 7 mm and 7.62 mm pitch

#### IMQ (n. CA02.00900)

130 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (12 A - 1 mm<sup>2</sup> stranded) for 3.5 mm and 3.81 mm pitch

750 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (12 A - 1 mm<sup>2</sup> stranded) for 7 mm and 7.62 mm pitch

#### CSA (n. LR102896)

300 V - 12 A - 30÷16 AWG 3.5 mm, 3.81 mm, 7 mm and 7.62 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

**0°, side stackable**  
**MTB\_008** 2 ÷ 25 poles, 3.5 mm / .138" pitch  
**MTB\_009** 2 ÷ 13 poles, 7 mm / .276" pitch  
**MTB\_007** 2 ÷ 25 poles, 3.81 mm / .150" pitch  
**MTB\_007** 2 ÷ 13 poles, 7.62 mm / .300" pitch



**0°, side stackable VDE pegs**  
**MTB02008-0000P** 2 poles, 3.5 mm / .138" pitch  
**MTB02007-0000P** 2 poles, 3.81 mm / .150" pitch



**55°, modular**  
**MTB\_048** 2 ÷ 25 poles, 3.5 mm / .138" pitch  
**MTB\_049** 1 ÷ 13 poles, 7 mm / .276" pitch

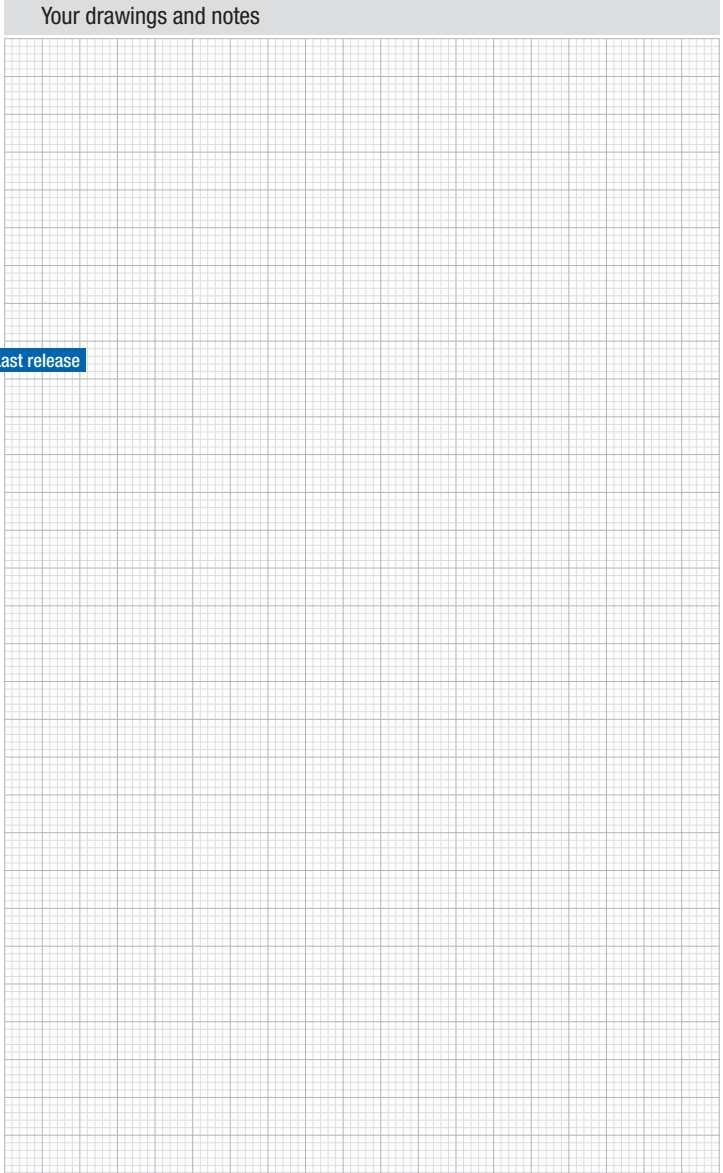


**55°, side stackable**  
**MTB\_068** 2 ÷ 25 poles, 3.5 mm / .138" pitch  
**MTB\_069** 2 ÷ 13 poles, 7 mm / .276" pitch  
**MTB\_067** 2 ÷ 7 poles, 3.81 mm / .150" pitch  
**MTB\_067** 2 ÷ 4 poles, 7.62 mm / .300" pitch





Last release



General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 3.5 mm, 7 mm (.138 in, .275 in) imperial 3.81 mm, 7.62 mm (.150 in, .300 in)
<b>Screw dimension:</b>	M2
<b>Recommended/highest tightening torque:</b>	0.2/0.25 Nm (1.77/2.21 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter for pin:</b>	min. 1.3 mm (.051 in)
<b>PCB hole diameter for peg:</b>	1.4 mm (.055 in)
<b>Stripping length:</b>	5±6 mm (.197 in)
<b>Operating temp. range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

Certifications

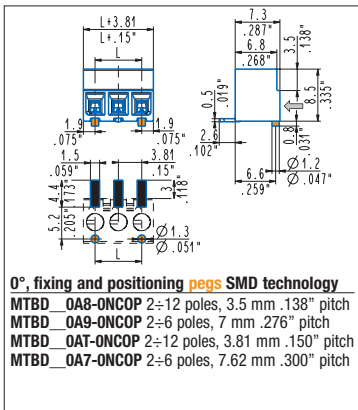
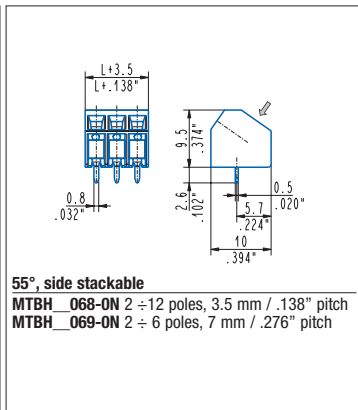
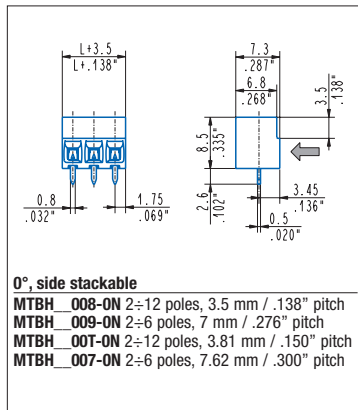
**UL (n. E167473)**  
300 V - 12 A - 28÷16 AWG - 2.7 lbf-in

Data according to

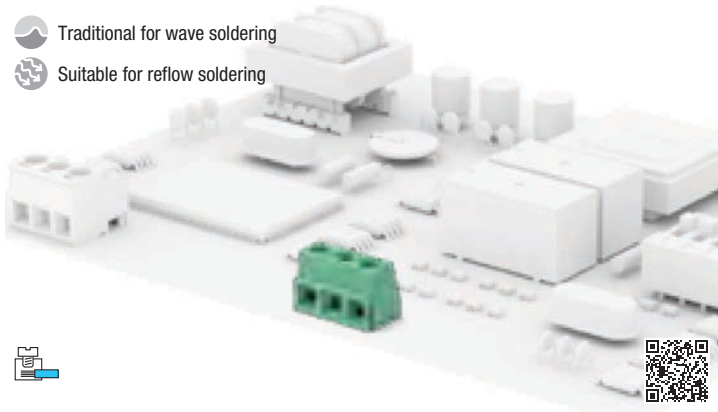
**IEC EN 60947-7-4**  
160 V - 12 A - 1.5 mm<sup>2</sup> for 3.5 mm and 3.81 mm pitch  
750 V - 12 A - 1.5 mm<sup>2</sup> for 7 mm and 7.62 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



- Traditional for wave soldering
- Suitable for reflow soldering



## Terminal blocks ▲

**0°, modular**  
**MSB\_001** 2 ÷ 25 poles, 5 mm / .197" pitch  
**MSB\_002** 1 ÷ 13 poles, 10 mm / .394" pitch  
**MSB\_005** 2 ÷ 25 poles, 5.08 mm / .200" pitch  
**MSB\_006** 1 ÷ 13 poles, 10.16 mm / .400" pitch

**90°, modular**  
**MSB\_091** 2 ÷ 25 poles, 5 mm / .197" pitch  
**MSB\_092** 1 ÷ 13 poles, 10 mm / .394" pitch  
**MSB\_095** 2 ÷ 25 poles, 5.08 mm / .200" pitch  
**MSB\_096** 1 ÷ 13 poles, 10.16 mm / .400" pitch

**90° terminal aligned with cable entry, modular**  
**MSB\_T01** 2 ÷ 25 poles, 5 mm / .197" pitch  
**MSB\_T02** 1 ÷ 13 poles, 10 mm / .394" pitch  
**MSB\_T05** 2 ÷ 8 poles, 5.08 mm / .200" pitch  
**MSB\_T06** 1 ÷ 4 poles, 10.16 mm / .400" pitch

**90° terminal aligned with cable entry, side stackable**  
**MSB\_TA1** 2 ÷ 25 poles, 5 mm / .197" pitch  
**MSB\_TA2** 1 ÷ 13 poles, 10 mm / .394" pitch  
**MSB\_TA5** 2 ÷ 8 poles, 5.08 mm / .200" pitch  
**MSB\_TA6** 2 ÷ 4 poles, 10.16 mm / .400" pitch

### General data

**Dimensional class:** low  
**Standard colour:** green  
**Pitches:** metric 5 mm, 10 mm (.197 in, .394 in)  
 imperial 5.08 mm, 10.16 mm (.200 in, .400 in)  
**Screw dimension:** M3  
**Recommended/highest tightening torque:** 0.5/0.6 Nm (4.42/5.31 lbf-in)  
**PCB thickness:** max. 2.4 mm (.094 in)  
**PCB hole diameter:** min. 1.3 mm (.051 in) / 1.4 mm (.055 in) for "T" version  
**Stripping length:** 5 ÷ 6 mm (.197 ÷ .24 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

### Certifications

**UL (n. E167473)** \*factory wiring - \*\*field wiring  
 300 V - 13.5 A (\*), 10 A (\*\*) - 30÷16 AWG - 6 lbf-in for 5 mm, 5.08 mm pitch  
 300 V - 17.5 A (\*), 15 A (\*\*) - 30÷14 AWG - 6 lbf-in for 5.5" and 5 mm, 5.08 mm pitch  
 600 V - 13.5 A (\*), 10 A (\*\*) - 30÷16 AWG - 6 lbf-in for 10 mm and 10.16 mm pitch  
 600 V - 17.5 A (\*), 15 A (\*\*) - 30÷14 AWG - 6 lbf-in for 5.5" and 10 mm and 10.16 mm pitch

### VDE (n. 40022744)

250 V - 13.5 A - T 110 - 1 mm<sup>2</sup> for 5 mm and 5.08 mm pitch  
 750 V - 13.5 A - T 110 - 1 mm<sup>2</sup> for 10 mm and 10.16 mm pitch

### IMQ (n. EC318)

250 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (13.5 A - 1 mm<sup>2</sup> stranded) for 5 mm and 5.08 mm pitch  
 750 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (13.5 A - 1 mm<sup>2</sup> stranded) for 10 mm and 10.16 mm pitch

### CSA (n. LR102896)

300 V - 13.5 A - 30÷15 AWG for 5 mm, 5.08 mm pitch  
 600 V - 13.5 A - 30÷15 AWG for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



**0° "S" version, modular**  
**MSB\_SM1** 2 ÷ 3 poles, 5 mm / .197" pitch  
**MSB\_SM2** 1 ÷ 2 poles, 10 mm / .394" pitch

**0° "S" version, side stackable**  
**MSB\_SA1** 2 ÷ 3 poles, 5 mm / .197" pitch  
**MSB\_SA2** 2 poles, 10 mm / .394" pitch

**90° "Y" version, modular**  
**MSB\_YM1** 2 ÷ 3 poles, 5 mm / .197" pitch  
**MSB\_YM2** 1 ÷ 2 poles, 10 mm / .394" pitch

**90° "Y" version, side stackable**  
**MSB\_YA1** 2 ÷ 3 poles, 5 mm / .197" pitch  
**MSB\_YA2** 2 poles, 10 mm / .394" pitch

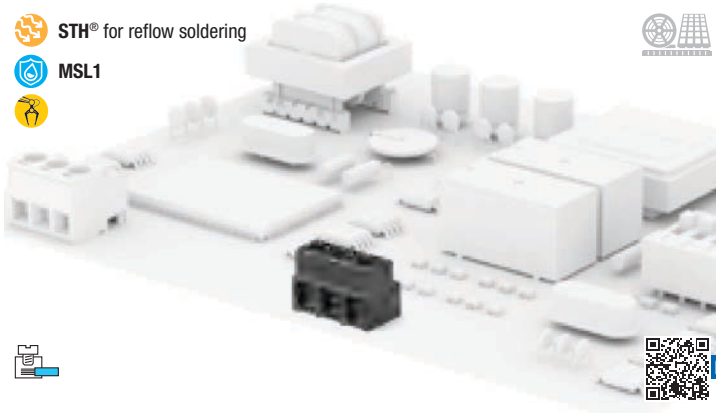
**0° "U" version, modular**  
**MSB\_UM1** 2 ÷ 3 poles, 5 mm / .197" pitch  
**MSB\_UM2** 1 ÷ 2 poles, 10 mm / .394" pitch

**0° "U" version, side stackable**  
**MSB\_UA1** 2 ÷ 3 poles, 5 mm / .197" pitch  
**MSB\_UA2** 2 poles, 10 mm / .394" pitch



**STH®** for reflow soldering

**MSL1**



Last release

### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in) imperial 5.08 mm, 10.16 mm (.200 in, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	1.3 mm (.051 in)
<b>Stripping length</b>	5 ÷ 6 mm (.197 ÷ .24 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance</b>	<15 mΩ
<b>Insulation resistance</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 13.5 A (\*), 10 A (\*\*) - 30÷16 AWG - 6 lbf-in for 5 mm, 5.08 mm pitch  
600 V - 13.5 A (\*), 10 A (\*\*) - 30÷16 AWG - 6 lbf-in for 10 mm and 10.16 mm pitch  
\*factory wiring - \*\*field wiring

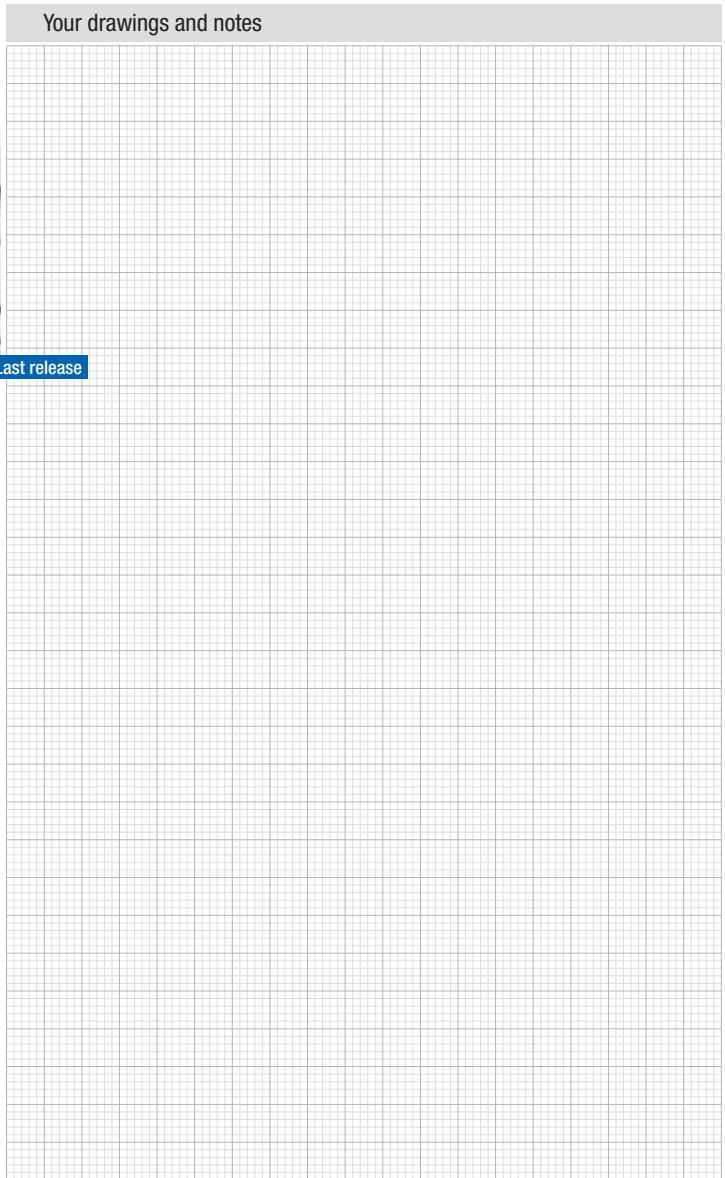
### Data according to

#### IEC EN 60947-7-4

250 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (13.5 A - 1 mm<sup>2</sup> stranded) for 5 mm and 5.08 mm pitch  
750 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (13.5 A - 1 mm<sup>2</sup> stranded) for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



**0°, side stackable**  
**MSBH\_001-ON** 2 ÷ 12 poles, 5 mm / .197" pitch  
**MSBH\_002-ON** 2 ÷ 6 poles, 10 mm / .394" pitch  
**MSBH\_005-ON** 2 ÷ 5 poles, 5.08 mm / .200" pitch  
**MSBH\_006-ON** 2 ÷ 3 poles, 10.16 mm / .400" pitch

**55°, modular**  
**MSBH\_045-ON** 2÷16 poles, 5.08 mm / .200" pitch  
**MSBH\_046-ON** 1÷8 poles, 10.16 mm / .400" pitch

**55°, side stackable**  
**MSBH\_061-ON** 2÷5 poles, 5 mm / .197" pitch  
**MSBH\_062-ON** 2÷3 poles, 10 mm / .394" pitch  
**MSBH\_065-ON** 2÷16 poles, 5.08 mm / .200" pitch  
**MSBH\_066-ON** 2÷8 poles, 10.16 mm / .400" pitch

**90° terminal aligned with cable entry, modular**  
**MSBH\_T01-ON** 2÷25 poles, 5 mm / .197" pitch  
**MSBH\_T02-ON** 1÷13 poles, 10 mm / .394" pitch  
**MSBH\_T05-ON** 2÷8 poles, 5.08 mm / .200" pitch  
**MSBH\_T06-ON** 1÷4 poles, 10.16 mm / .400" pitch



**90° terminal aligned with cable entry, side stackable**  
**MSBH\_TA1-ON** 2÷25 poles, 5 mm / .197" pitch  
**MSBH\_TA2-ON** 2÷13 poles, 10 mm / .394" pitch  
**MSBH\_TA5-ON** 2÷8 poles, 5.08 mm / .200" pitch  
**MSBH\_TA6-ON** 2÷4 poles, 10.16 mm / .400" pitch

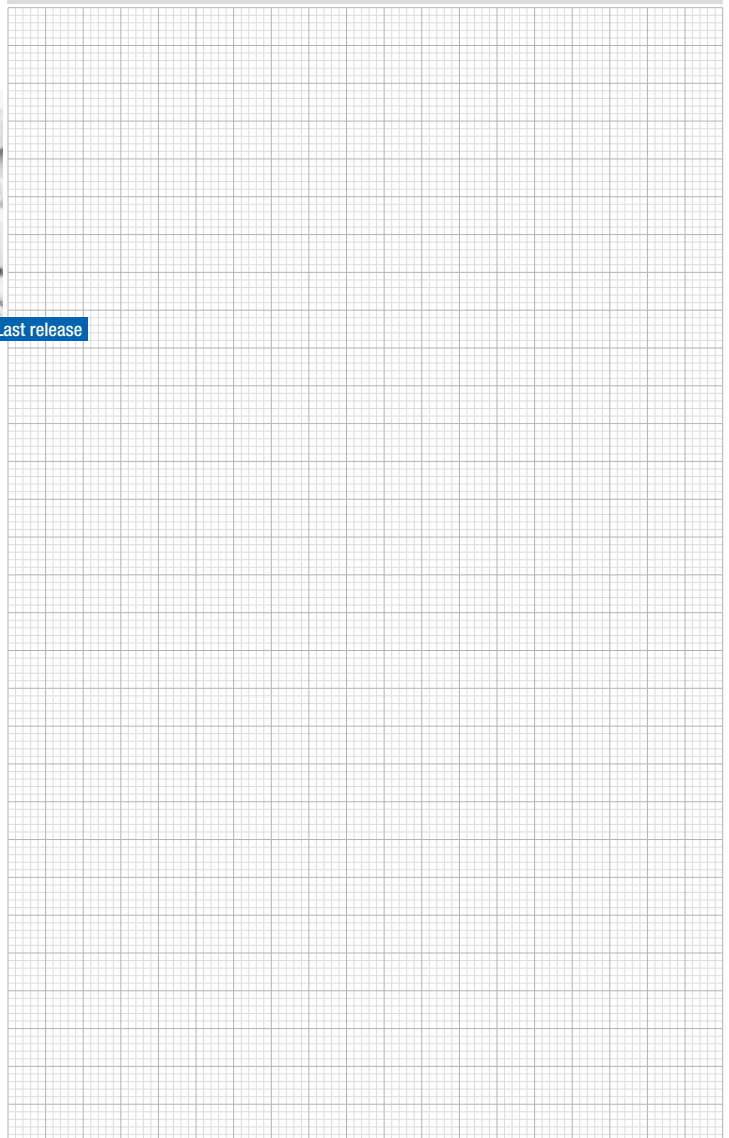




- SMD for reflow soldering
- MSL1
- 



Your drawings and notes



Last release

**General data**

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter for peg:</b>	1.3 mm (.051 in)
<b>Stripping length</b>	5 ÷ 6 mm (.197 ÷ .24 in)
<b>Operating temp. range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance</b>	<15 mΩ
<b>Insulation resistance</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

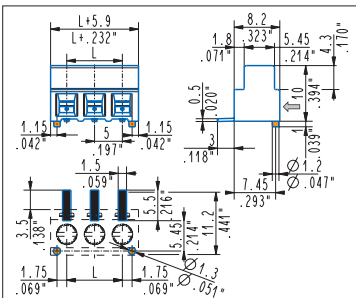
**UL (n. E167473)**

300 V - 13.5 A (\*), 10 A (\*\*) - 30÷16 AWG - 6 lbf-in for 5 mm pitch  
 600 V - 13.5 A (\*), 10 A (\*\*\*) - 30÷16 AWG - 6 lbf-in for 10 mm pitch  
 \*factory wiring - \*\*field wiring

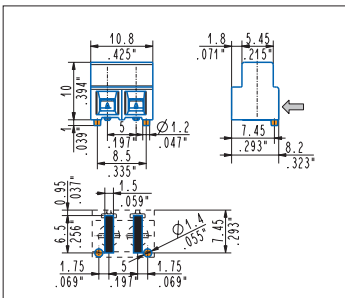
**IEC EN 60947-7-4**

250 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (13.5 A - 1 mm<sup>2</sup> stranded) for 5 mm pitch  
 750 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (13.5 A - 1 mm<sup>2</sup> stranded) for 10 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.



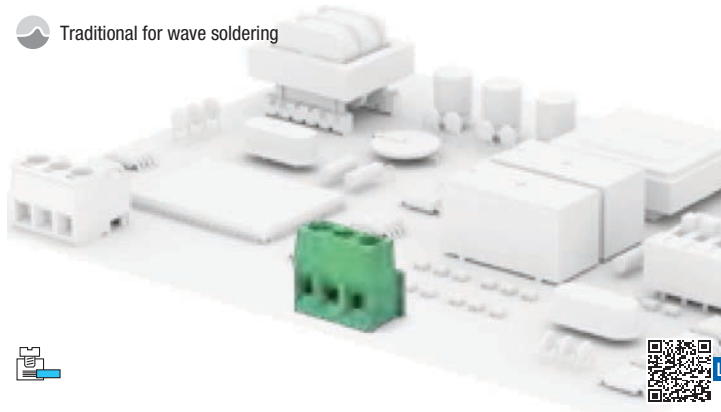
**0°, fixing and positioning pegs SMD technology**  
**MSBD\_LP1-ONC** 2÷12 poles, 5 mm / .197" pitch  
**MSBD\_LP2-ONC** 2÷6 poles, 10 mm / .394" pitch



**0°, fixing and positioning pegs SMD technology**  
**MSBD02001-ONC** 2 poles, 5 mm / .197" pitch



Traditional for wave soldering



Last release

**General data**

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 5.08 mm, 7.62 mm, 10.16 mm (.200 in, .300 in, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	5.5 ÷ 6.5 mm (.22 ÷ .26 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)** \*\*factory wiring - \*\*field wiring  
300 V - 17.5 A (\*), 15A (\*\*) - 30÷14 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 17.5 A (\*), 15A (\*\*) - 30÷14 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch

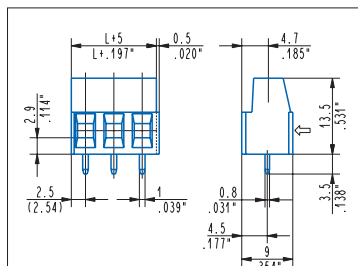
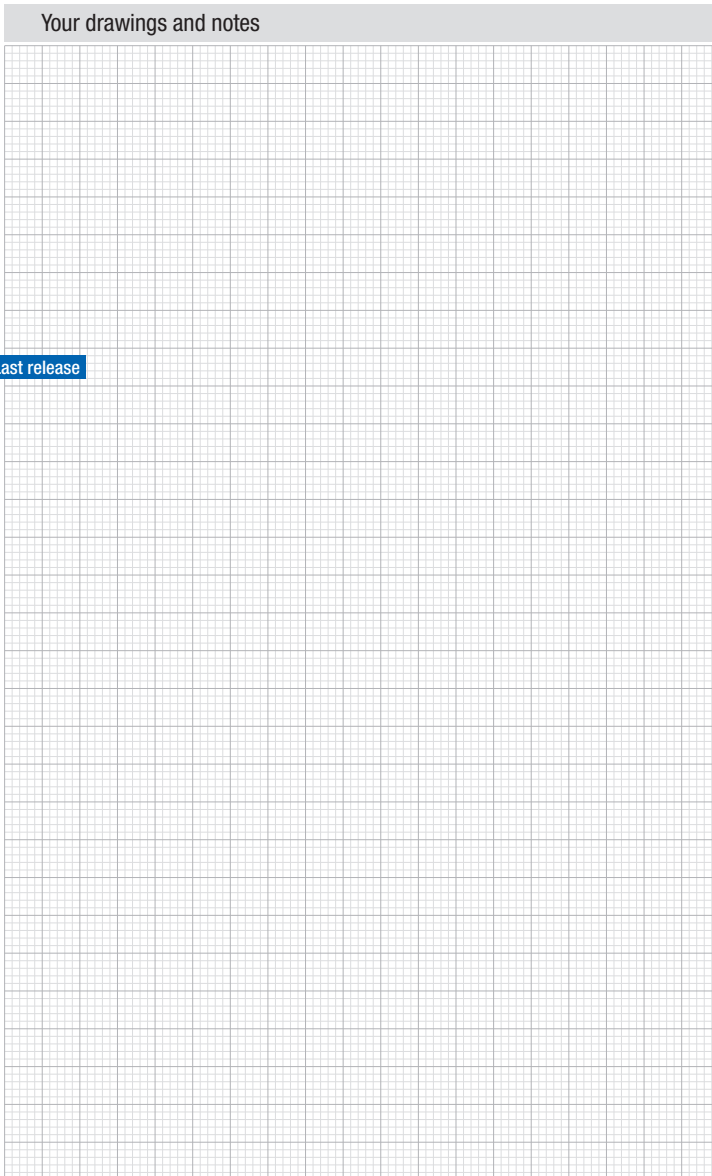
**VDE (n. 40022749)**  
250 V - 17.5 A - T 110 - 1.5 mm<sup>2</sup> for 5 mm and 5.08 mm pitch  
750 V - 17.5 A - T 110 - 1.5 mm<sup>2</sup> for 7.5 mm and 7.62 mm pitch  
750 V - 17.5 A - T 110 - 1.5 mm<sup>2</sup> for 10 mm and 10.16 mm pitch

**IMQ (n. EI056)**  
250 V - T 110 - 24 A - 2.5 mm<sup>2</sup> solid (17.5 A - 1.5 mm<sup>2</sup> stranded) for 5 mm and 5.08 mm pitch  
750 V - T 110 - 24 A - 2.5 mm<sup>2</sup> solid (17.5 A - 1.5 mm<sup>2</sup> stranded) for 7.5 mm, 7.62 mm, 10 mm and 10.16 mm pitch

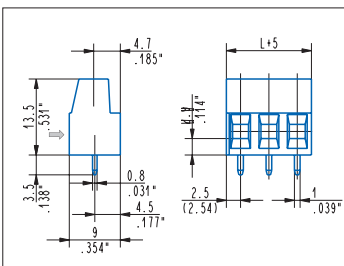
**CSA (n. LR102896)**  
300 V - 17.5 A - 30÷13 AWG for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 17.5 A - 30÷13 AWG for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

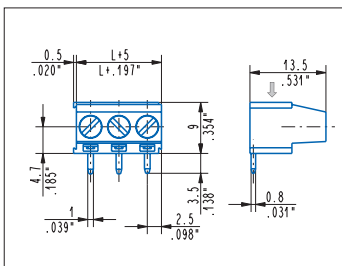
A higher number of poles is obtained by combining together **modular** parts.



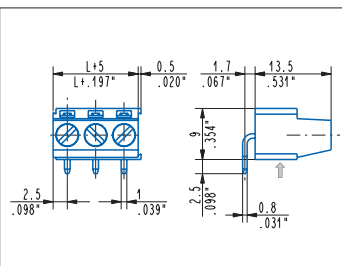
- 0°, modular**
- MSG\_001 - 2÷25 poles, 5 mm / .197" pitch
  - MSG\_003 - 2÷5 poles, 7.5 mm / .295" pitch
  - MSG\_002 - 1÷13 poles, 10 mm / .394" pitch
  - MSG\_005 - 2÷25 poles, 5.08 mm / .200" pitch
  - MSG\_007 - 2÷3 poles, 7.62 mm / .300" pitch
  - MSG\_006 - 1÷13 poles, 10.16 mm / .400" pitch



- 0°, side stackable**
- MSG\_OA1 - 2÷25 poles, 5 mm / .197" pitch
  - MSG\_OA2 - 2÷13 poles, 10 mm / .394" pitch
  - MSG\_OA5 - 2÷25 poles, 5.08 mm / .200" pitch
  - MSG\_OA6 - 2÷13 poles, 10.16 mm / .400" pitch



- 90°, modular**
- MSG\_091 - 2÷25 poles, 5 mm / .197" pitch
  - MSG\_093 - 2÷5 poles, 7.5 mm / .295" pitch
  - MSG\_092 - 1÷13 poles, 10 mm / .394" pitch
  - MSG\_095 - 2÷25 poles, 5.08 mm / .200" pitch
  - MSG\_097 - 2÷3 poles, 7.62 mm / .300" pitch
  - MSG\_096 - 1÷13 poles, 10.16 mm / .400" pitch



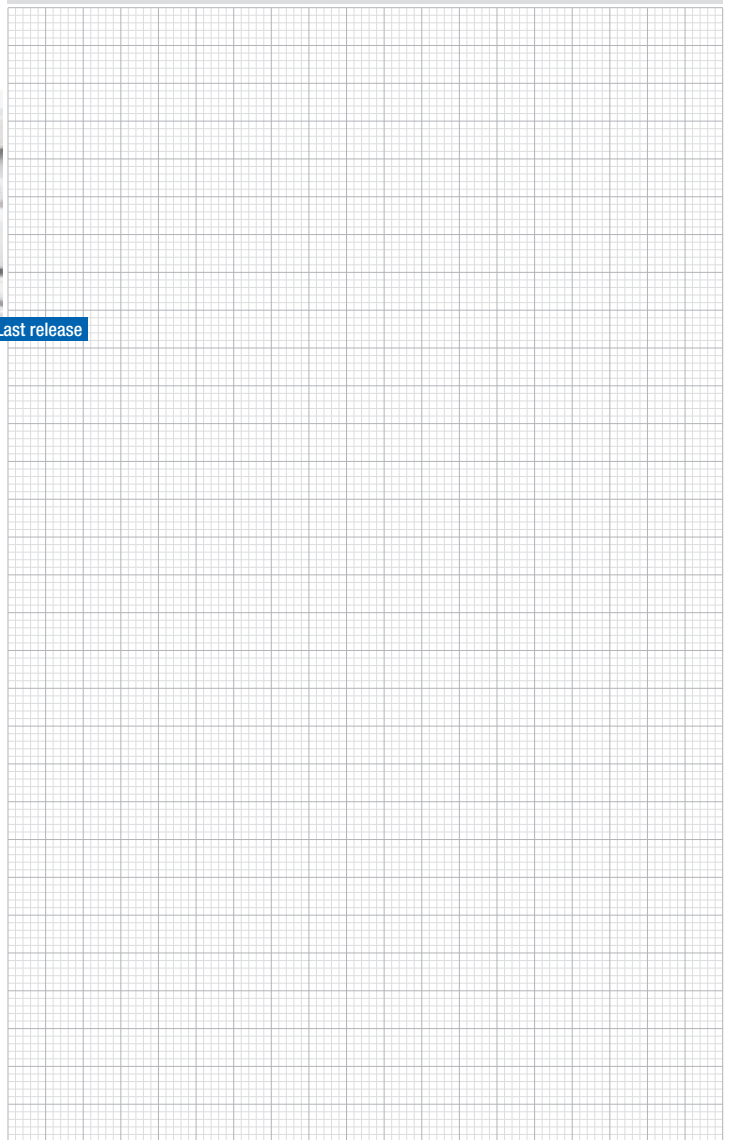
- 270°, modular**
- MSG\_051 - 2÷25 poles, 5 mm / .197" pitch
  - MSG\_053 - 2÷5 poles, 7.5 mm / .295" pitch
  - MSG\_052 - 1÷13 poles, 10 mm / .394" pitch
  - MSG\_055 - 2÷25 poles, 5.08 mm / .200" pitch
  - MSG\_057 - 2÷3 poles, 7.62 mm / .300" pitch
  - MSG\_056 - 1÷13 poles, 10.16 mm / .400" pitch



- STH® for reflow soldering
- MSL1
- 



### Your drawings and notes



Last release

#### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 5.08 mm, 10.16 mm (.200 in, .300 in, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.5 mm (.059 in)
<b>Stripping length:</b>	5.5 ÷ 6.5 mm (.22 ÷ .26 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

#### Certifications

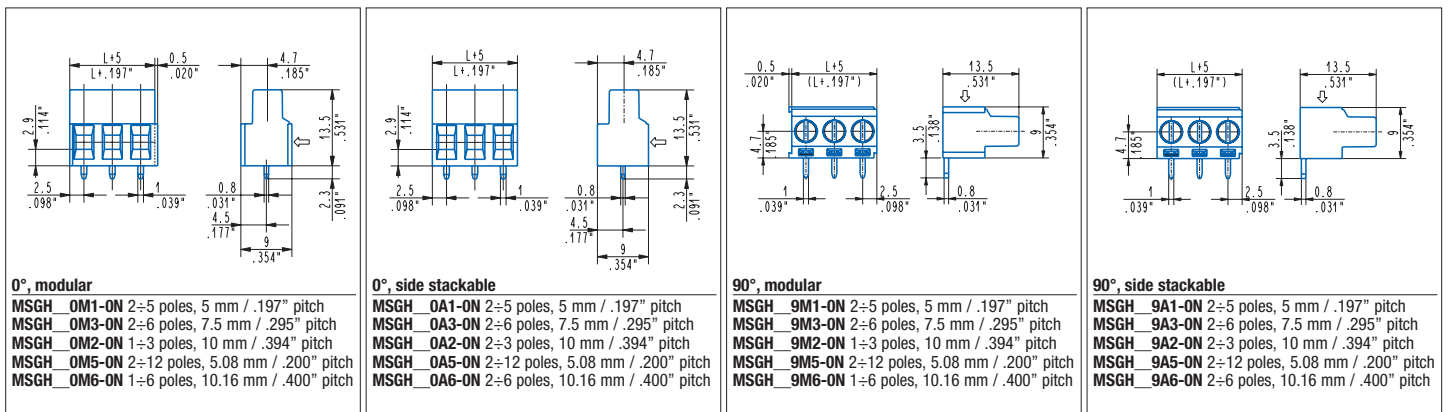
**UL (n. E167473)** \*factory wiring - \*\*field wiring  
 300 V - 17.5 A (\*), 15A (\*\*) - 30÷14 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 mm  
 600 V - 17.5 A (\*), 15A (\*\*) - 30÷14 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch

#### Data according to

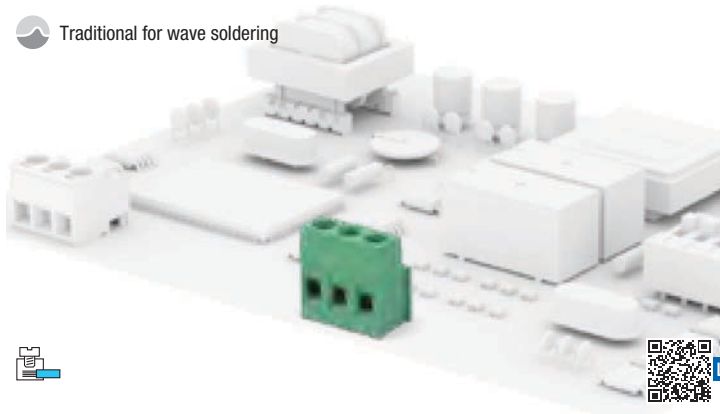
**IEC EN 60947-7-4**  
 250 V - T 110 - 24 A - 2.5 mm<sup>2</sup> solid (17.5 A - 1.5 mm<sup>2</sup> stranded) for 5 mm and 5.08 mm pitch  
 750 V - T 110 - 24 A - 2.5 mm<sup>2</sup> solid (17.5 A - 1.5 mm<sup>2</sup> stranded) for 7.5 mm, 7.62 mm, 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



Traditional for wave soldering



Last release

### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 5.08 mm, 7.62 mm, 10.16 mm (.200 in, .300 in, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	5.5 ÷ 6.5 mm (.22 ÷ .26 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch

#### VDE (n. 40022741)

250 V - 24 A - T 110 - 2.5 mm<sup>2</sup> for 5 mm and 5.08 mm pitch  
450 V - 24 A - T 110 - 2.5 mm<sup>2</sup> for 7.5 mm and 7.62 mm pitch  
750 V - 24 A - T 110 - 2.5 mm<sup>2</sup> for 10 mm and 10.16 mm pitch

#### IMQ (n. EA022)

250 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 5 mm and 5.08 mm pitch  
750 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 7.5 mm, 7.62 mm, 10 mm and 10.16 mm pitch

#### CSA (n. LR102896)

300 V - 17.5 A - 30÷12 AWG for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 17.5 A - 30÷12 AWG for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

**270°, modular**

- MSM\_051 - 2÷25 poles, 5 mm / .197" pitch
- MSM\_053 - 2÷4 poles, 7.5 mm / .295" pitch
- MSM\_052 - 1÷13 poles, 10 mm / .394" pitch
- MSM\_055 - 2÷25 poles, 5.08 mm / .200" pitch
- MSM\_057 - 2÷3 poles, 7.62 mm / .300" pitch
- MSM\_056 - 1÷13 poles, 10.16 mm / .400" pitch



**0°, modular**

- MSM\_001 - 2÷25 poles, 5 mm / .197" pitch
- MSM\_003 - 2÷4 poles, 7.5 mm / .295" pitch
- MSM\_002 - 1÷13 poles, 10 mm / .394" pitch
- MSM\_005 - 2÷25 poles, 5.08 mm / .200" pitch
- MSM\_007 - 2÷3 poles, 7.62 mm / .300" pitch
- MSM\_006 - 1÷13 poles, 10.16 mm / .400" pitch

**0°, modular, terminal aligned with the screw**

- MSM\_001-000T 2÷25 poles, 5 mm .197" pitch
- MSM\_003-000T 2÷4 poles, 7.5 mm .295" pitch
- MSM\_002-000T 1÷13 poles, 10 mm .394" pitch
- MSM\_005-000T 2÷25 poles, 5.08 mm .200" pitch
- MSM\_007-000T 2÷3 poles, 7.62 mm .300" pitch
- MSM\_006-000T 1÷13 poles, 10.16 mm .400" pitch

**35°, modular**

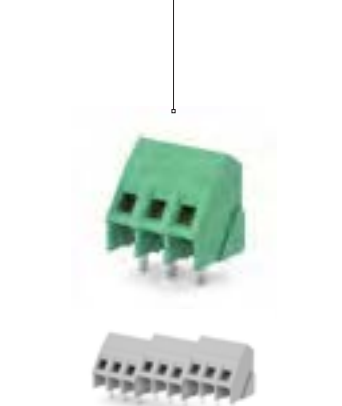
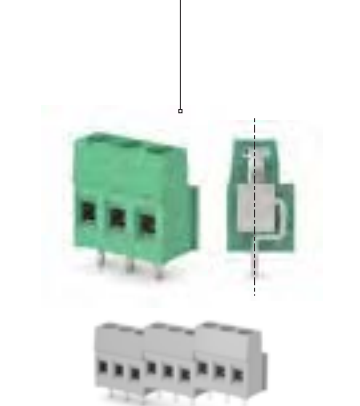
- MSM\_041 - 2÷20 poles, 5 mm / .197" pitch
- MSM\_043 - 2÷12 poles, 7.5 mm / .295" pitch
- MSM\_042 - 1÷10 poles, 10 mm / .394" pitch
- MSM\_045 - 2÷25 poles, 5.08 mm / .200" pitch
- MSM\_047 - 2÷12 poles, 7.62 mm / .300" pitch
- MSM\_046 - 1÷13 poles, 10.16 mm / .400" pitch

**90°, modular**

- MSM\_091 - 2÷25 poles, 5 mm / .197" pitch
- MSM\_093 - 2÷4 poles, 7.5 mm / .295" pitch
- MSM\_092 - 1÷13 poles, 10 mm / .394" pitch
- MSM\_095 - 2÷25 poles, 5.08 mm / .200" pitch
- MSM\_097 - 2÷3 poles, 7.62 mm / .300" pitch
- MSM\_096 - 1÷13 poles, 10.16 mm / .400" pitch

**0°, side stackable**

- MSM\_0A7 - 2÷3 poles, 7.62 mm .300" pitch



STH® for reflow soldering

MSL1



Your drawings and notes

Last release



### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 5.08 mm, 7.62 mm, 10.16 mm (.200 in, .300 in, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.5 mm (.059 in)
<b>Stripping length:</b>	5.5 ÷ 6.5 mm (.22 ÷ .26 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch

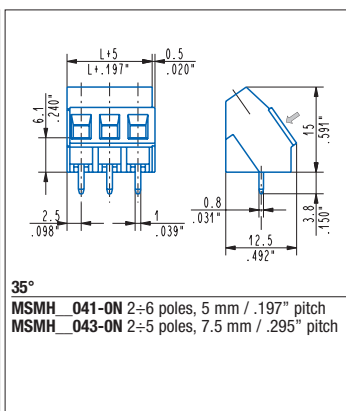
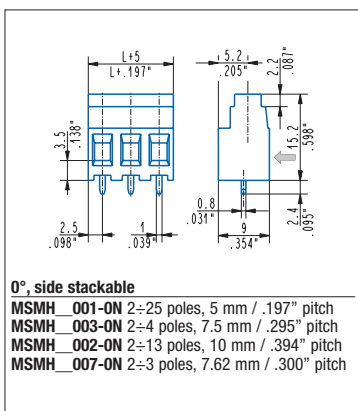
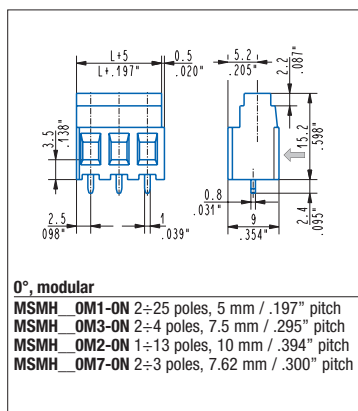
### Data according to

#### IEC EN 60947-7-4

250 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 5 mm and 5.08 mm pitch  
750 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 7.5 mm, 7.62 mm, 10 mm and 10.16 mm pitch

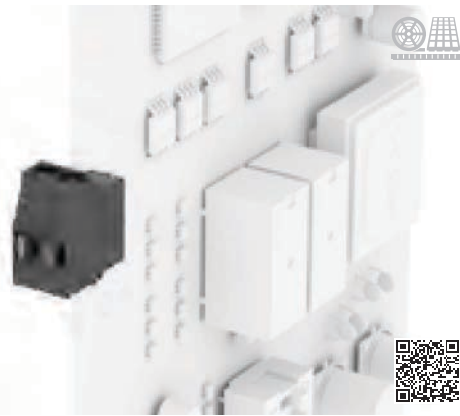
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



**STH<sup>®</sup>** for reflow soldering

**MSL1**



Last release

**General data**

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm (.197 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	5.5 ÷ 6.5 mm (.22 ÷ .26 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

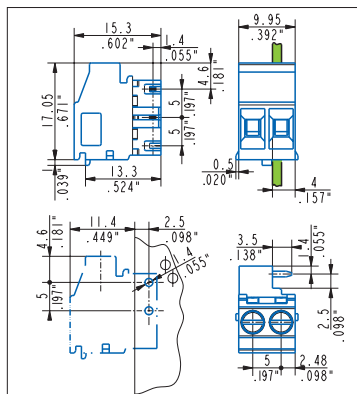
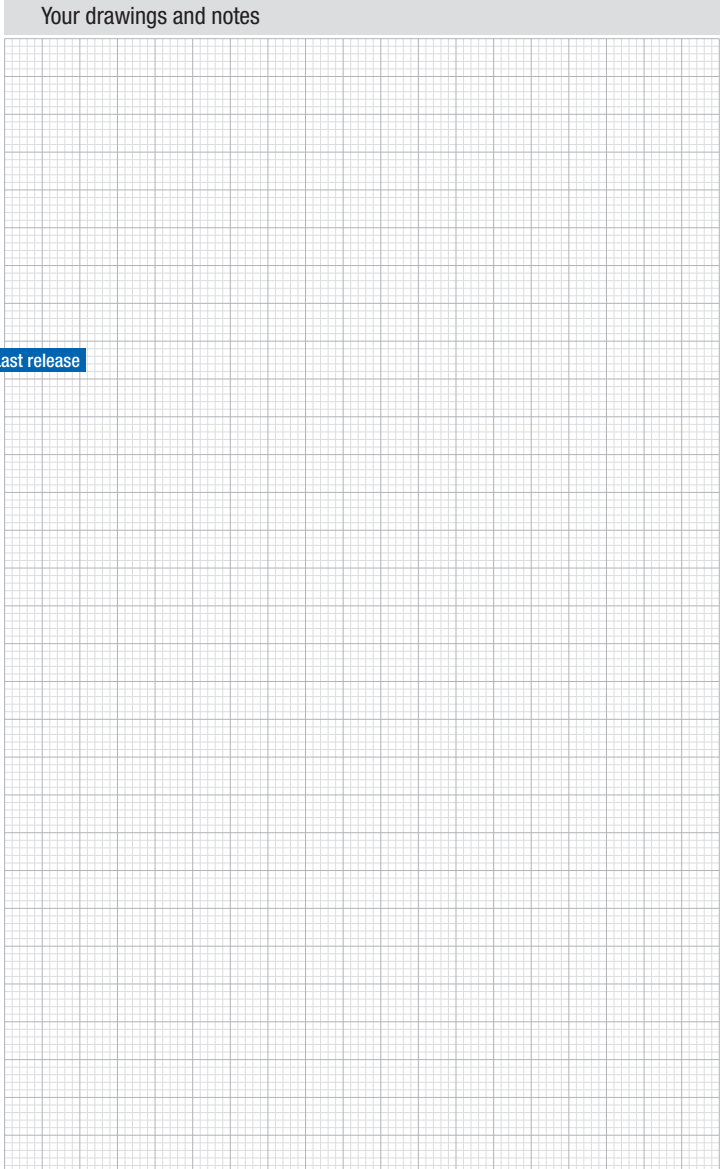
**Certifications**

**UL (n. E167473)**  
300 V - 20 A - 30÷12 AWG - 7 lbf-in

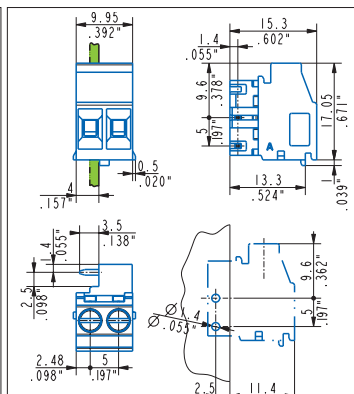
**Data according to**

**IEC EN 60947-7-4**  
250 V - 24 A - 2.5 mm<sup>2</sup>

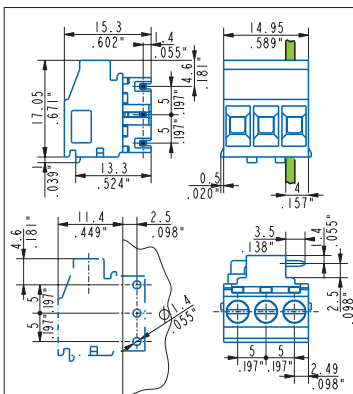
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.



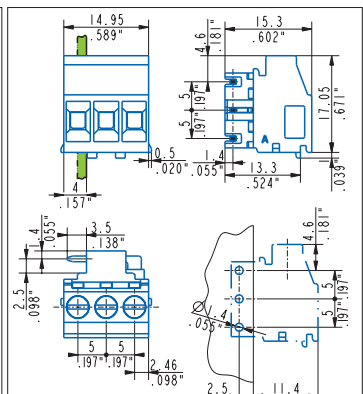
**Normo-orthogonal right**  
**MSMH02NR1-0N** - 2 poles, 5 mm / .197" pitch



**Normo-orthogonal left**  
**MSMH02NL1-0N** - 2 poles, 5 mm / .197" pitch



**Normo-orthogonal right**  
**MSMH03NR1-0N** - 3 poles, 5 mm / .197" pitch



**Normo-orthogonal left**  
**MSMH03NL1-0N** - 3 poles, 5 mm / .197" pitch



- STH<sup>®</sup>** for reflow soldering
- MSL1**
- 



### Your drawings and notes

Your drawings and notes



Last release

#### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	black
<b>Pitches:</b>	imperial 7.62 mm, (.300 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque</b>	0.5/0.8 Nm (4.42/7.08 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.5 mm (.055 in)
<b>Stripping length:</b>	6 ÷ 8 mm (.23 ÷ .31 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

#### Data according to

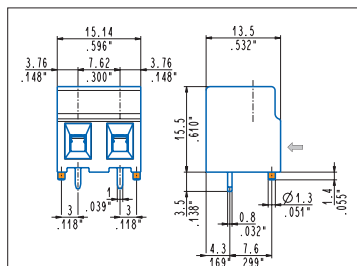
##### UL 1059

300 V - 20 A - 30÷12 AWG

##### IEC EN 60947-7-4

750 V - 24 A - 2.5 mm<sup>2</sup>

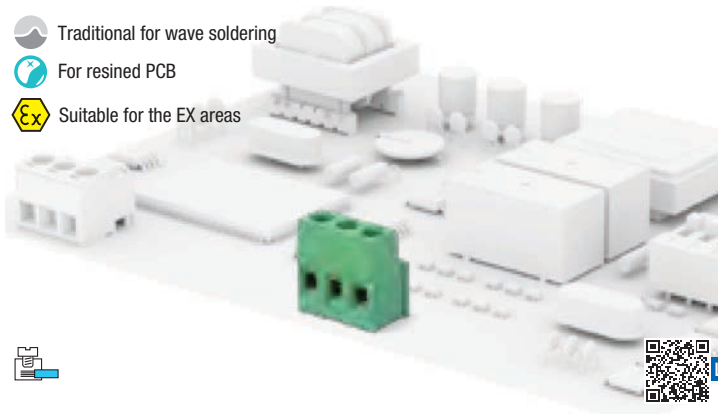
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.



**0°, fixing and positioning pegs**  
**MSFH\_0A7-0N** - 2 poles, 7.62 mm / .300" pitch



- Traditional for wave soldering
- For resined PCB
- Suitable for the EX areas



Last release

### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 5.08 mm, 7.62 mm, 10.16 mm (.200 in, .300 in, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	5.5 ÷ 6.5 mm (.22 ÷ .26 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch

#### VDE (n. 40022745)

250 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 5 mm and 5.08 mm pitch  
750 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 7.5 mm, 7.62 mm, 10 mm and 10.16 mm pitch

#### IMQ (n. EA022)

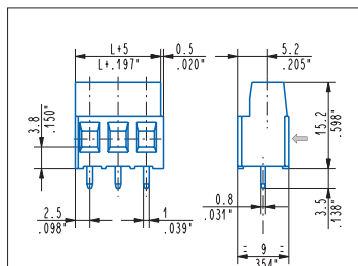
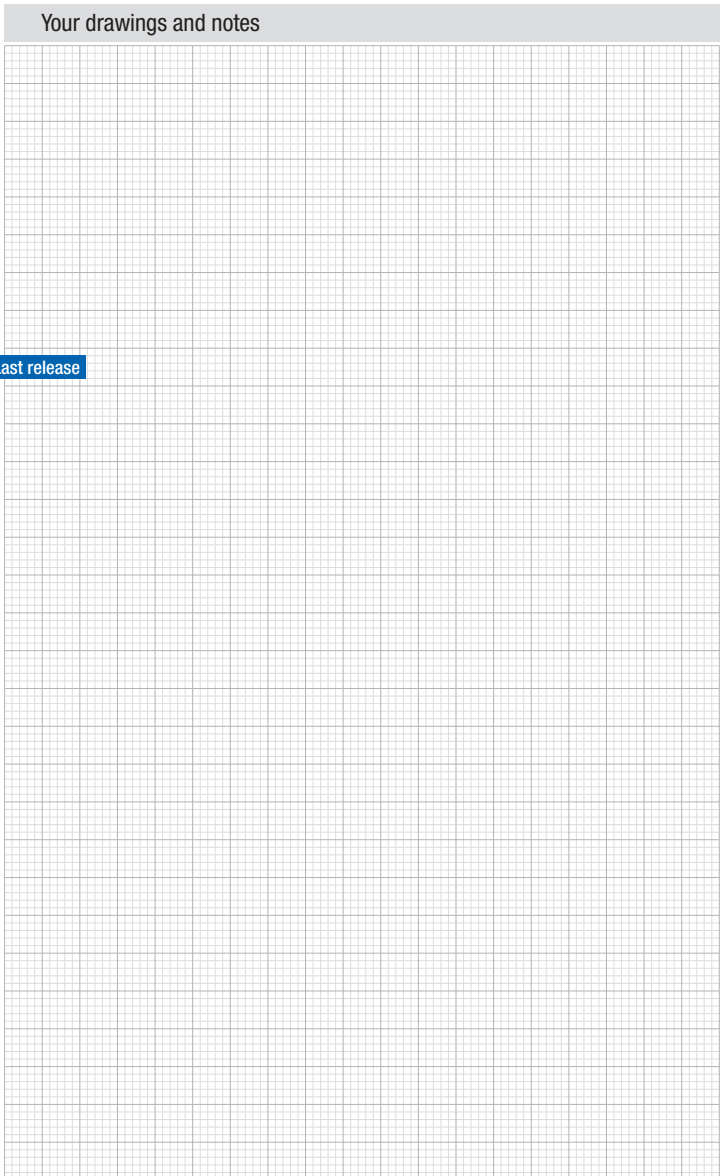
250 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 5 mm and 5.08 mm pitch  
750 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 7.5 mm, 7.62 mm, 10 mm and 10.16 mm pitch

#### CSA (n. LR102896)

300 V - 17.5 A - 30÷12 AWG for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 17.5 A - 30÷12 AWG for 10 mm and 10.16 mm pitch

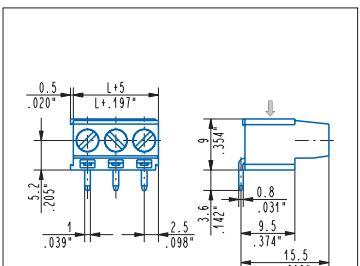
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



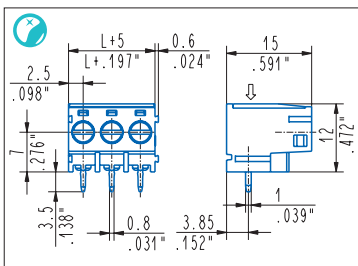
#### 0°, modular

- MSS\_001** - 2÷25 poles, 5 mm / .197" pitch
- MSS\_003** - 2÷4 poles, 7.5 mm / .295" pitch
- MSS\_002** - 1÷13 poles, 10 mm / .394" pitch
- MSS\_005** - 2÷25 poles, 5.08 mm / .200" pitch
- MSS\_007** - 2÷3 poles, 7.62 mm / .300" pitch
- MSS\_006** - 1÷13 poles, 10.16 mm / .400" pitch



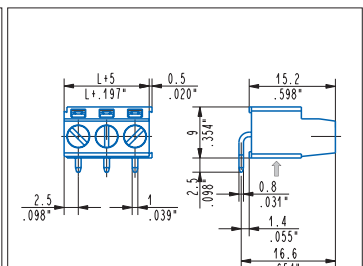
#### 90°, modular

- MSS\_091** - 2÷25 poles, 5 mm / .197" pitch
- MSS\_093** - 2÷4 poles, 7.5 mm / .295" pitch
- MSS\_092** - 1÷13 poles, 10 mm / .394" pitch
- MSS\_095** - 2÷25 poles, 5.08 mm / .200" pitch
- MSS\_097** - 2÷3 poles, 7.62 mm / .300" pitch
- MSS\_096** - 1÷13 poles, 10.16 mm / .400" pitch



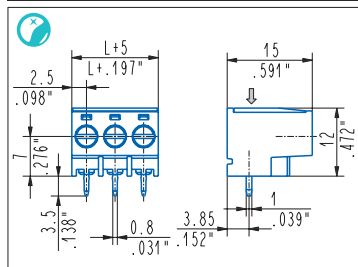
#### 90° "T" version, modular

- MSS\_TM1** - 2÷18 poles, 5 mm / .197" pitch
- MSS\_TM3** - 2÷3 poles, 7.5 mm / .295" pitch
- MSS\_TM2** - 1÷9 poles, 10 mm / .394" pitch
- MSS\_TM5** - 2÷3 poles, 5.08 mm / .200" pitch
- MSS\_TM7** - 2÷3 poles, 7.62 mm / .300" pitch
- MSS\_TM6** - 1÷2 poles, 10.16 mm / .400" pitch



#### 270°, modular

- MSS\_051** - 2÷25 poles, 5 mm / .197" pitch
- MSS\_053** - 2÷4 poles, 7.5 mm / .295" pitch
- MSS\_052** - 1÷13 poles, 10 mm / .394" pitch
- MSS\_055** - 2÷25 poles, 5.08 mm / .200" pitch
- MSS\_057** - 2÷3 poles, 7.62 mm / .300" pitch
- MSS\_056** - 1÷13 poles, 10.16 mm / .400" pitch



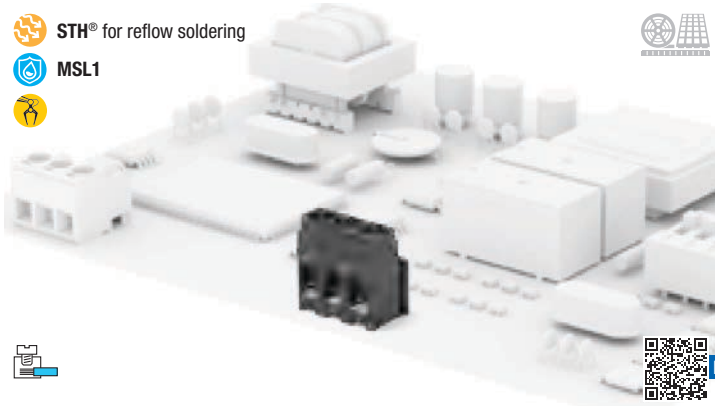
#### 90° "T" version, side stackable

- MSS\_TA1** - 2÷18 poles, 5 mm / .197" pitch
- MSS\_TA2** - 2÷9 poles, 10 mm / .394" pitch



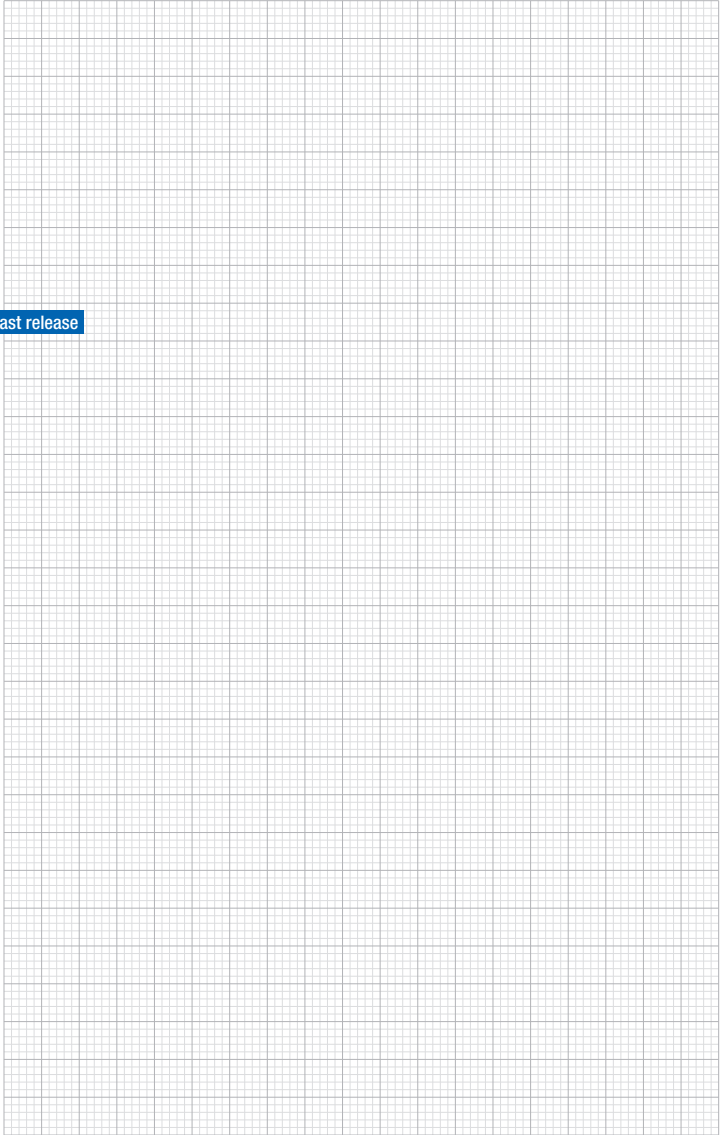


- STH® for reflow soldering
- MSL1
- 



Last release

Your drawings and notes



### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 7.62 mm (.300 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	1.5 mm (.059 in)
<b>Stripping length:</b>	5.5 ÷ 6.5 mm (.22 ÷ .26 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Data according to

#### UL 1059

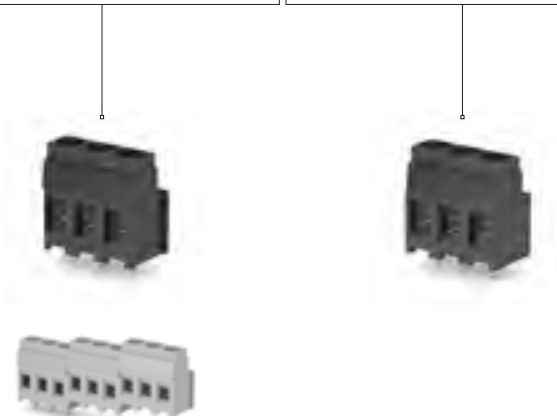
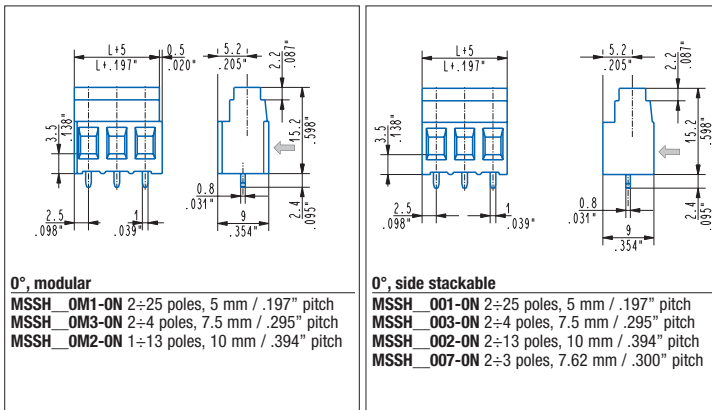
300 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 5 mm, 7.5 mm and 7.62 mm pitch  
600 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 10 mm pitch

#### IEC EN 60947-7-4

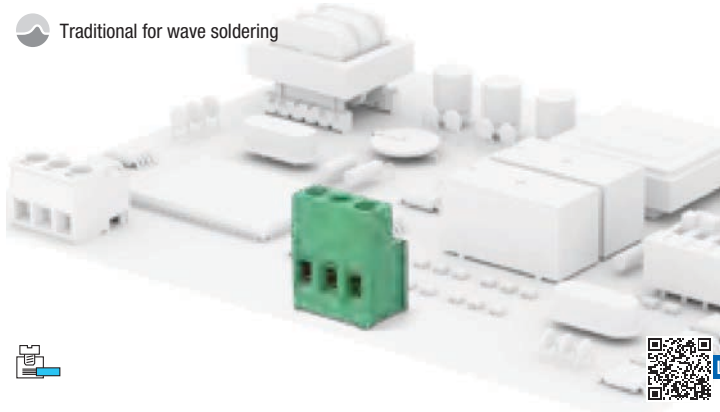
250 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 5 mm pitch  
750 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 7.5 mm, 7.62 mm, 10 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



Traditional for wave soldering



Last release

**General data**

<b>Dimensional class:</b>	high
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 5.08, 7.62, 10.16 mm (.200, .300, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	6.5 ÷ 7 mm (.26 ÷ .28 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**

300 V - 24 A (factory wiring), 20 A (field wiring) - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 and 7.62 mm  
600 V - 24 A (factory wiring), 20 A (field wiring) - 30÷12 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch  
FOR "S version" 600 V - 20 A - 30÷12 AWG - 7 lbf-in

**VDE (n. 4002743)**

250 V - 24 A - T 110 - 2.5 mm<sup>2</sup> for 5 mm and 5.08 mm pitch  
450 V - 24 A - T 110 - 2.5 mm<sup>2</sup> for 7.5 mm and 7.62 mm pitch  
750 V - 24 A - T 110 - 2.5 mm<sup>2</sup> for 10 mm and 10.16 mm pitch

**IMQ (n. EB731)**

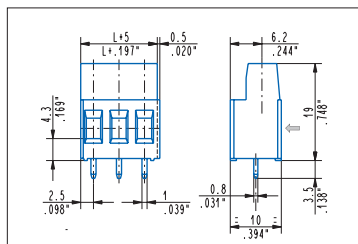
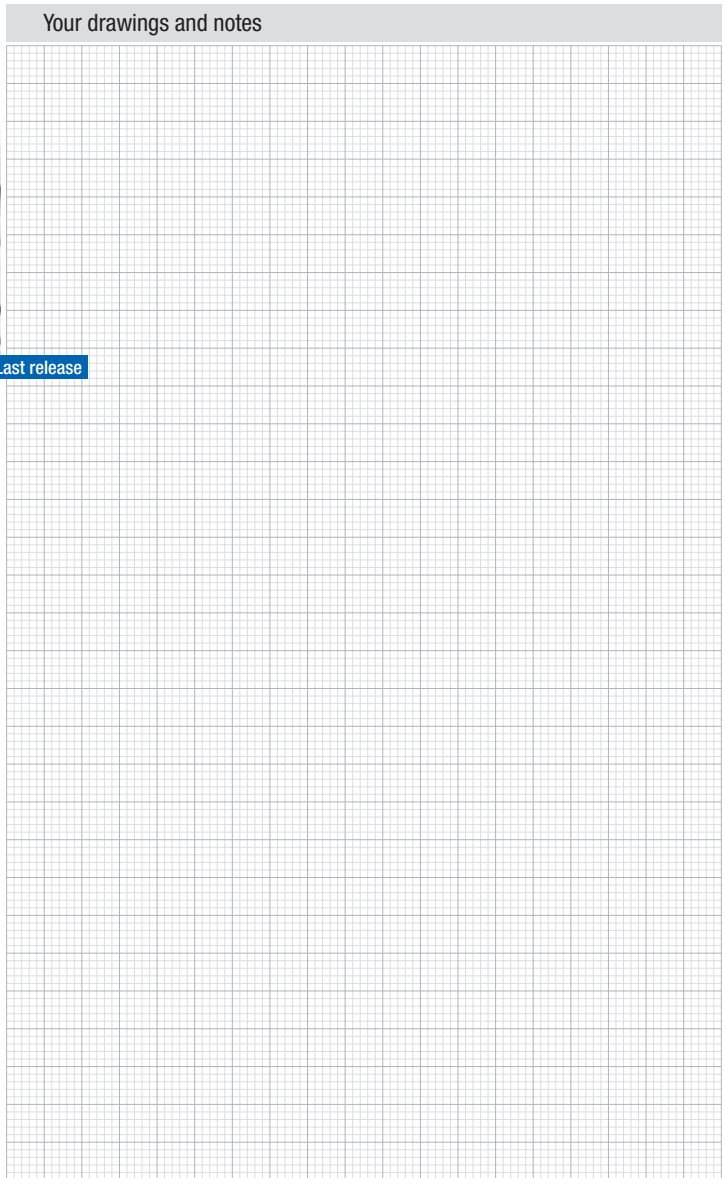
250 V - T 110 - 32 A - 4 mm<sup>2</sup> solid (24 A - 2.5 mm<sup>2</sup> stranded) for 5 mm and 5.08 mm pitch  
750 V - T 110 - 32 A - 4 mm<sup>2</sup> solid (24 A - 2.5 mm<sup>2</sup> stranded) for 7.5 mm, 7.62 mm, 10 mm and 10.16 mm pitch

**CSA (n. LR102896)**

300 V - 24 A - 30÷11 AWG for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 24 A - 30÷11 AWG for 10 mm and 10.16 mm pitch

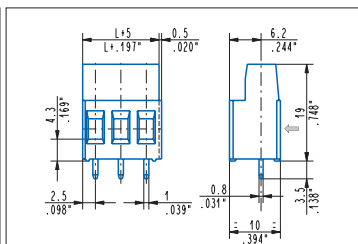
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



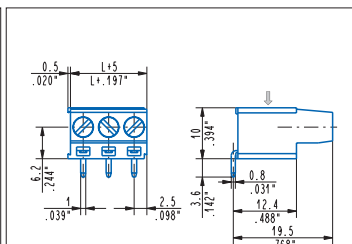
**0°, modular**

- MSQ\_001 - 2÷25 poles, 5 mm / .197" pitch
- MSQ\_003 - 2÷4 poles, 7.5 mm / .295" pitch
- MSQ\_002 - 1÷13 poles, 10 mm / .394" pitch
- MSQ\_005 - 2÷25 poles, 5.08 mm / .200" pitch
- MSQ\_007 - 2÷3 poles, 7.62 mm / .300" pitch
- MSQ\_006 - 1÷13 poles, 10.16 mm / .400" pitch



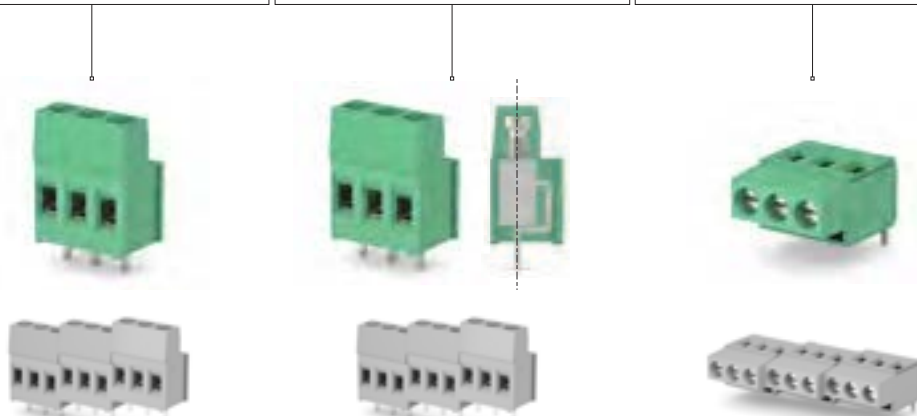
**0°, modular, terminal aligned with the screw**

- MSQ\_001-000T 2÷25 poles, 5 mm .197" pitch
- MSQ\_003-000T 2÷4 poles, 7.5 mm .295" pitch
- MSQ\_002-000T 1÷13 poles, 10 mm .394" pitch
- MSQ\_005-000T 2÷25 poles, 5.08 mm .200" pitch
- MSQ\_007-000T 2÷3 poles, 7.62 mm .300" pitch
- MSQ\_006-000T 1÷13 poles, 10.16 mm .400" pitch

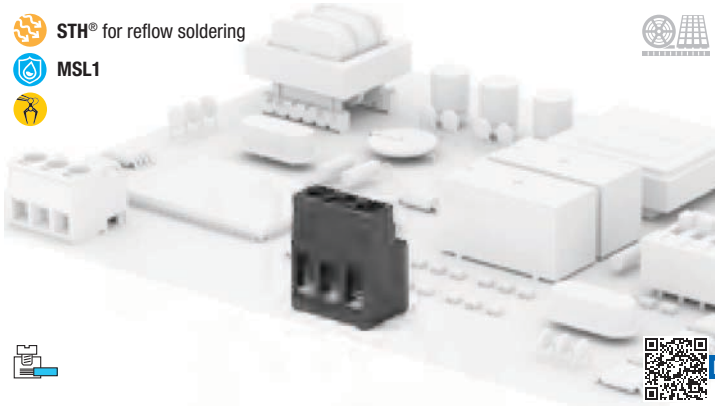


**90°, modular**

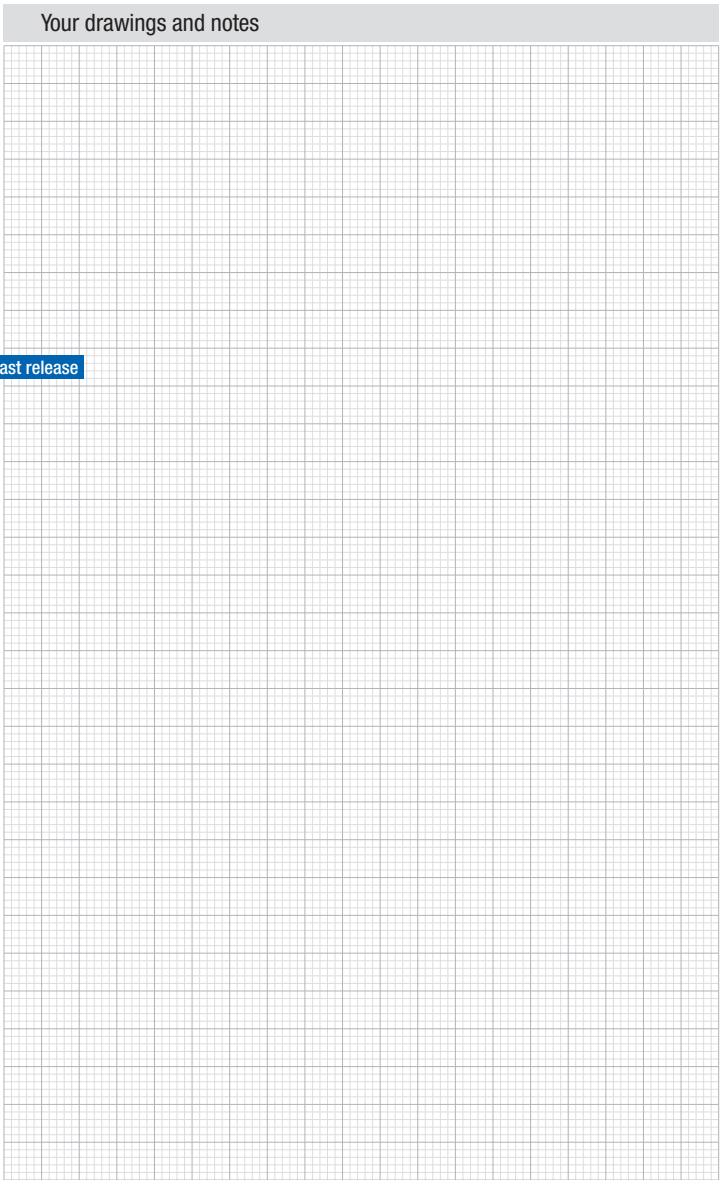
- MSQ\_091 - 2÷25 poles, 5 mm / .197" pitch
- MSQ\_093 - 2÷4 poles, 7.5 mm / .295" pitch
- MSQ\_092 - 1÷13 poles, 10 mm / .394" pitch
- MSQ\_095 - 2÷25 poles, 5.08 mm / .200" pitch
- MSQ\_097 - 2÷3 poles, 7.62 mm / .300" pitch
- MSQ\_096 - 1÷13 poles, 10.16 mm / .400" pitch



- STH® for reflow soldering
- MSL1
- 



Last release



### General data

<b>Dimensional class:</b>	high
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 7.5 mm, (.295 in) imperial 5.08 mm, 7.62 mm, (.200 in, .300 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.5 mm (.059 in)
<b>Stripping length:</b>	6.5 ÷ 7 mm (.26 ÷ .28 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Data according to

#### UL 1059

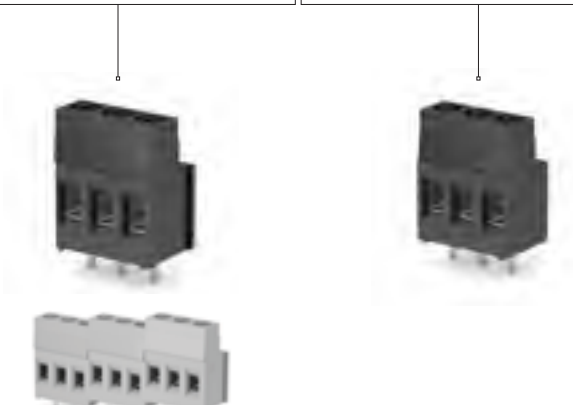
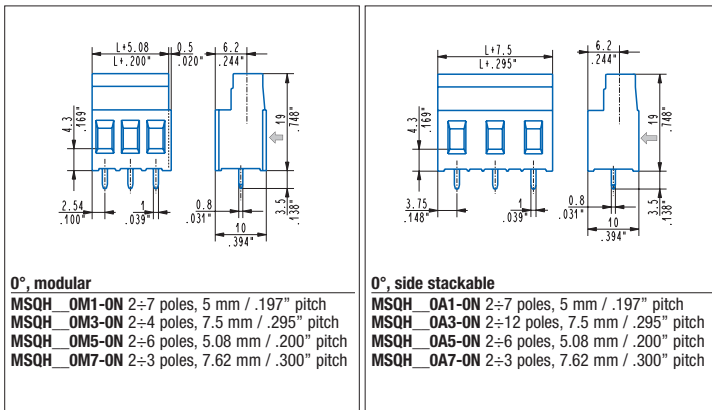
300 V - 24 A (factory wiring), 20 A (field wiring) - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 and 7.62 mm  
600 V - 24 A (factory wiring), 20 A (field wiring) - 30÷12 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch

#### IEC EN 60947-7-4

250 V - T 110 - 32 A - 4 mm<sup>2</sup> solid (24 A - 2.5 mm<sup>2</sup> stranded) for 5 mm and 5.08 mm pitch  
750 V - T 110 - 32 A - 4 mm<sup>2</sup> solid (24 A - 2.5 mm<sup>2</sup> stranded) for 7.5 mm, 7.62 mm, 10 mm and 10.16 mm pit

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.





Traditional for wave soldering



STH® for reflow soldering

MSL1



Last release

General data

<b>Dimensional class:</b>	high
<b>Standard colour:</b>	green for wave soldering, black for reflow soldering
<b>Pitches:</b>	imperial 6.35, 7.62, 9.52, 12.7 (.250, .300, .375, .500 in)
<b>Screw dimension:</b>	M3.5
<b>Recommended/highest tightening torque:</b>	0.8/1 Nm (7/8.85 lbf-in)
<b>PCB thickness:</b>	max. 4 mm (.157 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	7 ÷ 8 mm (.28 ÷ .31 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>STH operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

Certifications

UL (n. E167473)

300 V - 30 A - 30÷10 AWG - 7 lbf-in for 6.35 mm 7.62 mm 9.52 mm pitch  
600 V - 30 A - 30÷10 AWG - 7 lbf-in for 12.7 mm pitch

For low ampere rating version

300 V - 24 A - 30÷10 AWG - 7 lbf-in for 6.35 mm 7.62 mm pitch  
600 V - 24 A - 30÷10 AWG - 7 lbf-in for 9.52 mm 12.7 mm pitch

VDE (n. 40021758)

450 V - T 110 - 32 A - 4 mm<sup>2</sup> for 6.35 mm pitch  
750 V - T 110 - 32 A - 4 mm<sup>2</sup> for 9.52 mm pitch

IMQ (n. CA02.00899) for traditional product

450 V - T 110 - 41 A - 6 mm<sup>2</sup> solid (32 A - 4 mm<sup>2</sup> stranded) for 6.35 mm pitch  
750 V - T 110 - 41 A - 6 mm<sup>2</sup> solid (32 A - 4 mm<sup>2</sup> stranded) for 9.52 mm pitch

CSA (n. LR102896) for traditional product

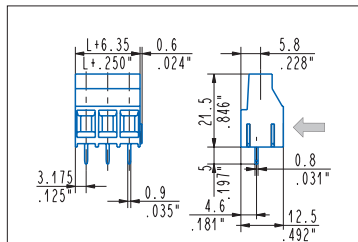
300 V - 30 A - 30÷10 AWG for 6.35 mm pitch  
600 V - 30 A - 30÷10 AWG for 9.52 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together modular parts.

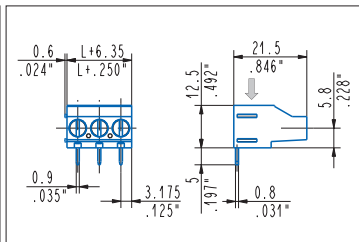


In order to protect terminals during transport, the product in box is packaged in row trays.



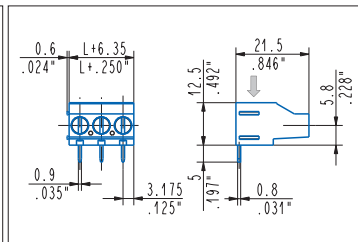
0°, modular

- MSP\_00S - 2÷5 poles, 6.35 mm / .250" pitch
- MSP\_007 - 2÷3 poles, 7.62 mm / .300" pitch
- MSP\_00N - 2÷3 poles, 9.52 mm / .375" pitch
- MSP\_00U - 1÷3 poles, 12.7 mm / .500" pitch
- MSPH\_00S-0N 2÷5 poles, 6.35 mm / .250" pitch
- MSPH\_007-0N 2÷3 poles, 7.62 mm / .300" pitch
- MSPH\_00N-0N 2÷3 poles, 9.52 mm / .375" pitch



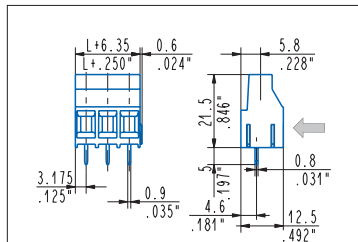
90°, modular

- MSP\_09S - 2÷5 poles, 6.35 mm / .250" pitch
- MSP\_097 - 2÷3 poles, 7.62 mm / .300" pitch
- MSP\_09N - 2÷3 poles, 9.52 mm / .375" pitch
- MSP\_09U - 1÷3 poles, 12.7 mm / .500" pitch
- MSPH\_09S-0N 2÷5 poles, 6.35 mm / .250" pitch
- MSPH\_097-0N 2÷3 poles, 7.62 mm / .300" pitch
- MSPH\_09N-0N 2÷3 poles, 9.52 mm / .375" pitch



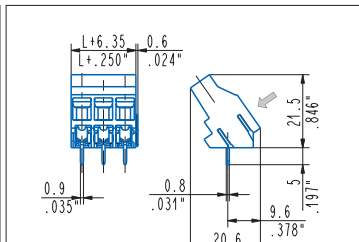
90°, modular, low ampere rating

- MSP\_09S-000E 2÷5 poles, 6.35 mm / .250" pitch
- MSP\_097-000E 2÷3 poles, 7.62 mm / .300" pitch
- MSP\_09N-000E 2÷3 poles, 9.52 mm / .375" pitch
- MSP\_09U-000E 1÷3 poles, 12.7 mm / .500" pitch



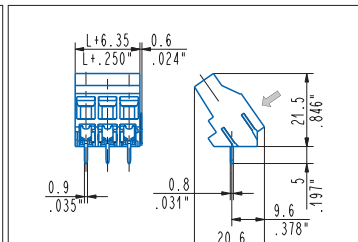
0°, modular, low ampere rating

- MSP\_00S-000E 2÷5 poles, 6.35 mm / .250" pitch
- MSP\_007-000E 2÷3 poles, 7.62 mm / .300" pitch
- MSP\_00N-000E 2÷3 poles, 9.52 mm / .375" pitch
- MSP\_00U-000E 1÷3 poles, 12.7 mm / .500" pitch



35°, modular

- MSP\_04S - 2÷3 poles, 6.35 mm / .250" pitch
- MSP\_04N - 2÷3 poles, 9.52 mm / .375" pitch
- MSP\_04U - 1÷3 poles, 12.7 mm / .500" pitch
- MSPH\_04S-0N - 2÷3 poles, 6.35 mm / .250" pitch
- MSPH\_04N-0N - 2÷3 poles, 9.52 mm / .375" pitch

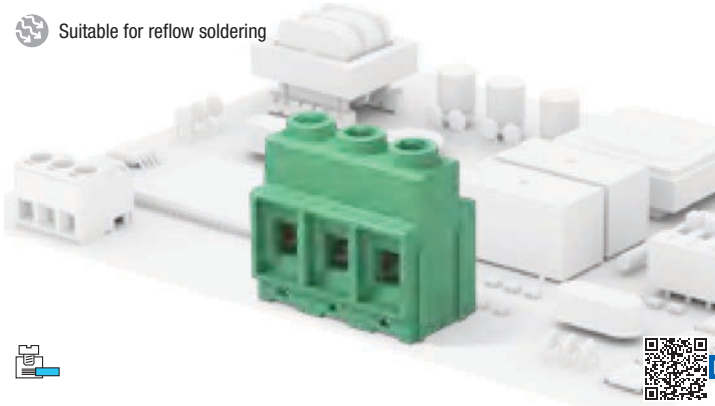


35°, modular, low ampere rating

- MSP\_04S-000E 2÷3 poles, 6.35 mm / .250" pitch
- MSP\_04N-000E 2÷3 poles, 9.52 mm / .375" pitch
- MSP\_04U-000E 1÷3 poles, 12.7 mm / .500" pitch



Suitable for reflow soldering



Last release

Your drawings and notes



### General data

<b>Dimensional class:</b>	high
<b>Standard colour:</b>	green
<b>Pitches:</b>	imperial 10.16 mm (.400 in)
<b>Screw dimension:</b>	M4
<b>Recommended/highest tightening torque:</b>	1.2/1.5 Nm (10.62/13.28 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.5 mm (.059 in)
<b>Stripping length:</b>	10.5 ÷ 11.5 mm (.41 ÷ .45 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

600 V - 60 A - 20÷6 AWG - 1.2 Nm for 10.16 mm pitch (version "S")  
 600 V - 57 A - 20÷6 AWG - 1.2 Nm for 10.16 mm pitch (version "Z")  
 300 V - 60 A - 20÷6 AWG - 1.2 Nm for 10.16 mm pitch (version "D")

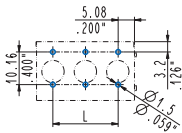
#### VDE (n. 40036991)

1000 V - T 110 - 76 A - 16 mm<sup>2</sup> solid (57 A - 10 mm<sup>2</sup> stranded) for 10.16 mm pitch (version "S")  
 1000 V - T 110 - 72 A - 16 mm<sup>2</sup> solid (57 A - 10 mm<sup>2</sup> stranded) for 10.16 mm pitch (version "Z")  
 450 V - T 110 - 76 A - 16 mm<sup>2</sup> solid (57 A - 10 mm<sup>2</sup> stranded) for 10.16 mm pitch (version "D")

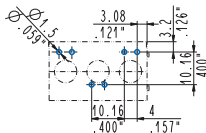
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A higher number of poles is obtained by combining together **modular** parts.

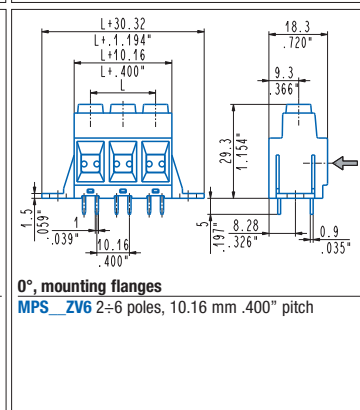
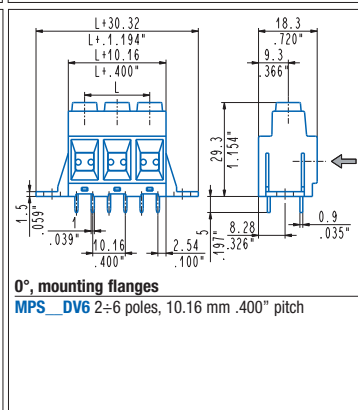
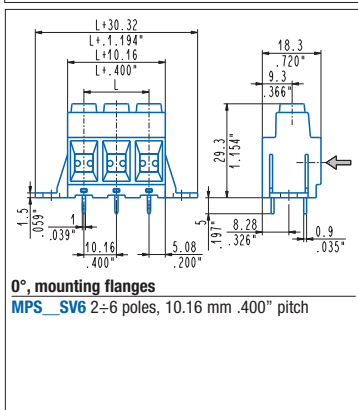
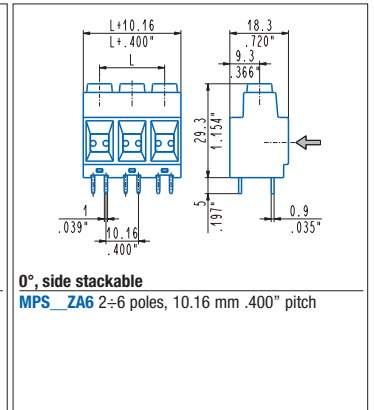
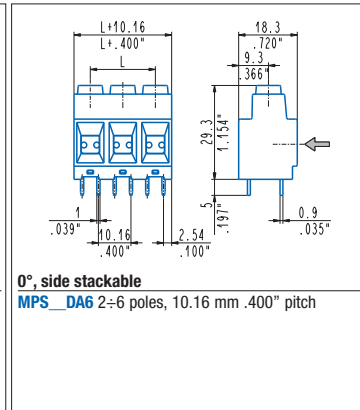
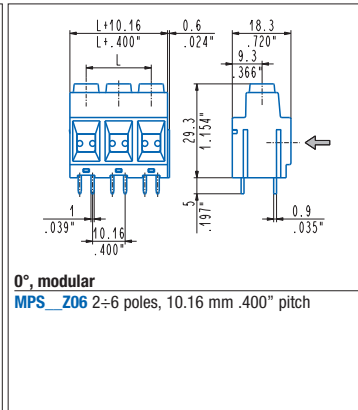
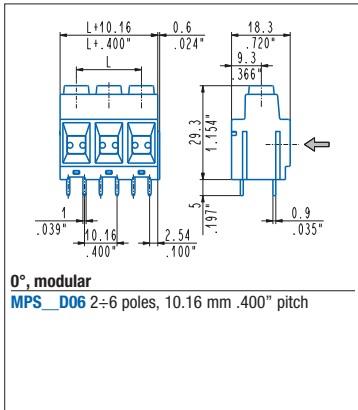
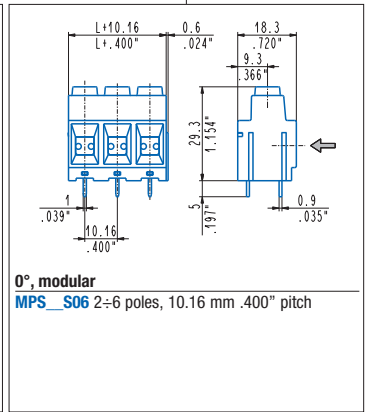
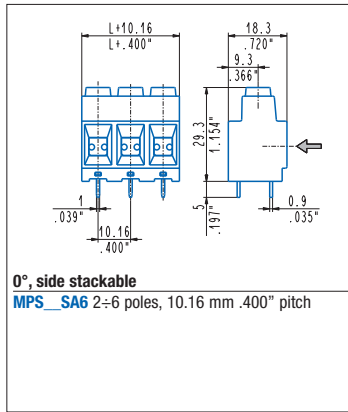
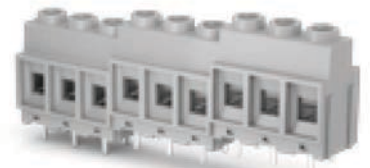
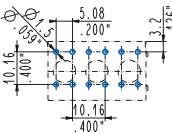
PCB layout "S" version



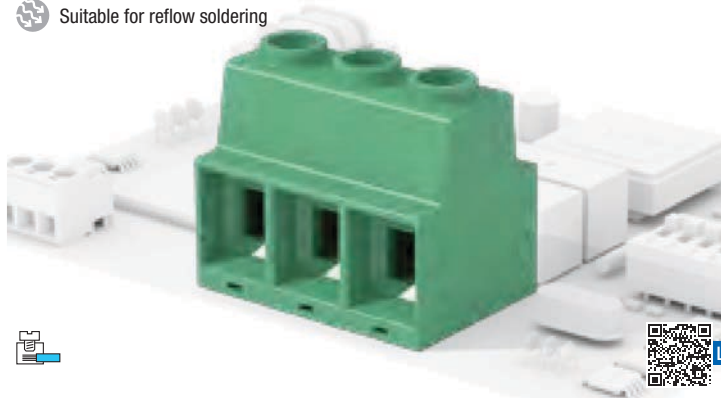
PCB layout "Z" version



PCB layout "D" version



Suitable for reflow soldering



Last release

**General data**

<b>Dimensional class:</b>	high
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 15 mm (.591 in)
<b>Screw dimension:</b>	M5
<b>Recommended/highest tightening torque:</b>	2.1/2.5 Nm (18.59/22.13 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.6 mm (.063 in)
<b>Stripping length:</b>	18 mm (.71 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

135 A

UL (n. E167473)  
600 V - 135 A factory wiring (130 A field wiring) - 20±1 AWG - 2.5 Nm

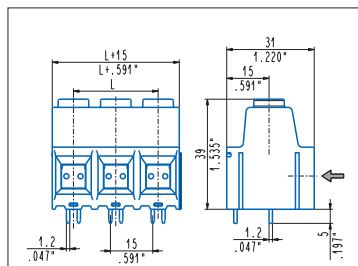
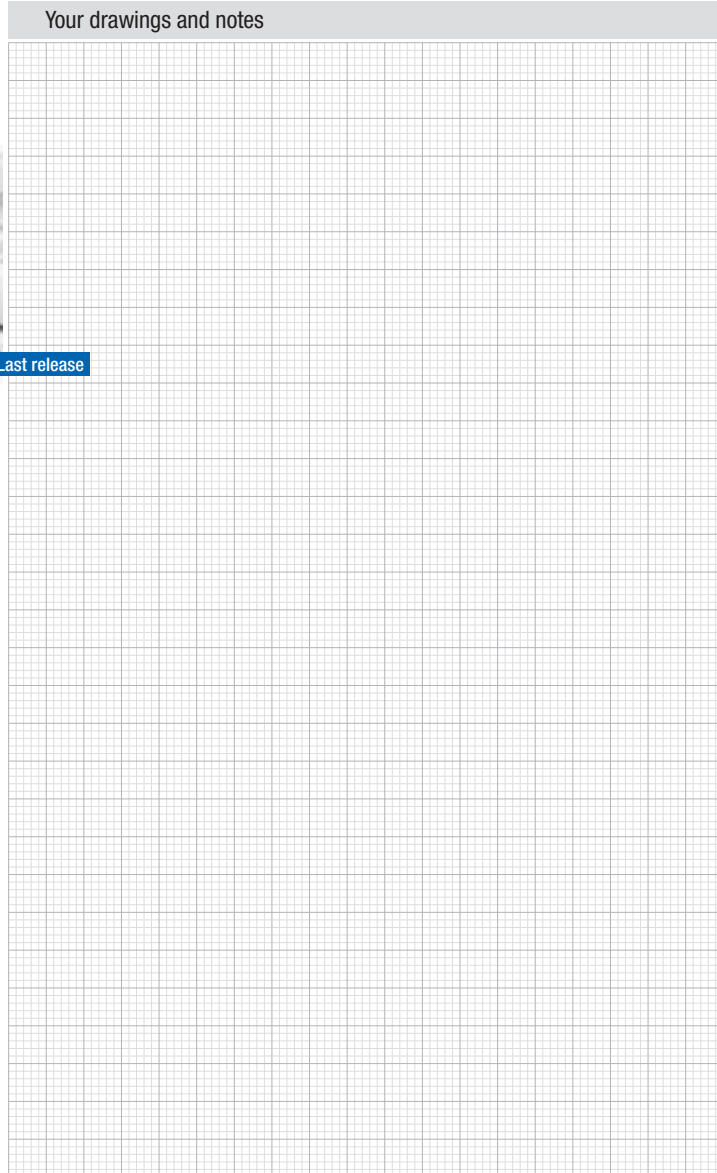
**Data according to**

**IEC EN 60947-7-4**

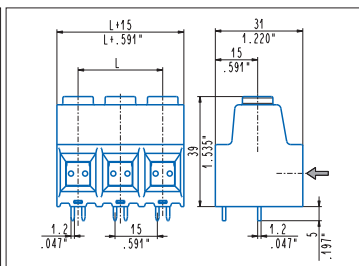
1000 V - 125 A - T 110 - 35 mm<sup>2</sup> solid (115 A - 25 mm<sup>2</sup> stranded)

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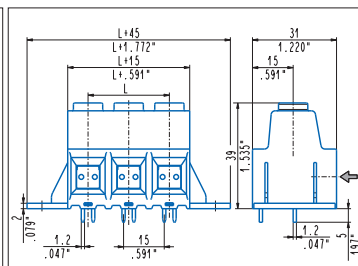
A higher number of poles is obtained by combining together **modular** parts.



**0°, modular**  
MPP\_DOQ 2÷8 poles, 15 mm .591" pitch



**0°, side stackable**  
MPP\_DAQ 2÷8 poles, 15 mm .591" pitch



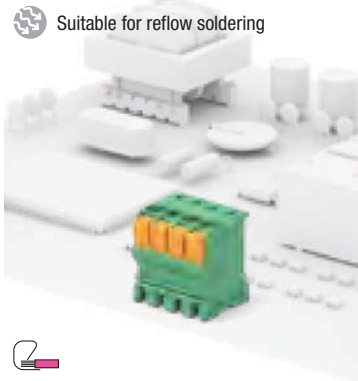
**0°, mounting flanges**  
MPP\_DVQ 1÷8 poles, 15 mm .591" pitch



Suitable for reflow soldering

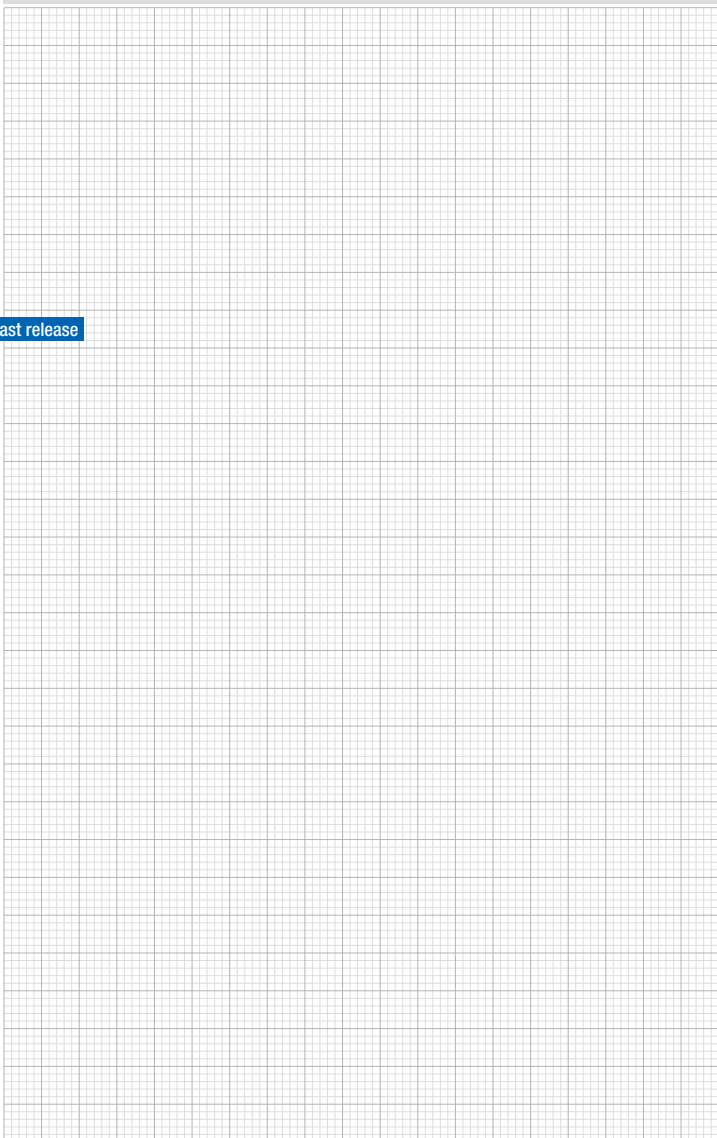
**STH<sup>®</sup>** for reflow soldering

**MSL1**



Last release

Your drawings and notes



### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green for wave soldering, black for reflow soldering
<b>Pitches:</b>	metric 3.5 mm, 7 mm (.138 in, .276 in) imperial 3.81 mm, 7.62 mm (.150 in, .300 in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	9 ÷ 10 mm (.41 ÷ .45 in)
<b>Operating temperature range:</b>	-40 °C ÷ +65 °C (-40 °F ÷ +149 °F)
<b>STH operating temperature range:</b>	-40 °C ÷ +65 °C (-40 °F ÷ +149 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

**UL (n. E167473)**

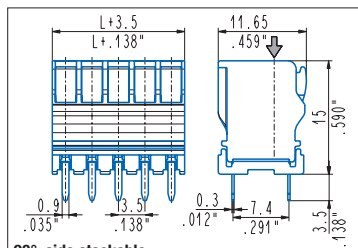
300 V - 9 A - 30÷16 AWG for 3.5 mm, 3.81 mm pitch  
600 V - 9 A - 30÷16 AWG for 7 mm, 7.62 mm pitch

### Data according to

**IEC EN 60947-7-4**

130 V - T 110 - 10 A - 1.5 mm<sup>2</sup> solid and stranded for 3.5 mm and 3.81 mm pitch  
750 V - T 110 - 10 A - 1.5 mm<sup>2</sup> solid and stranded for 7 mm and 7.62 mm pitch

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**90°, side stackable**

- MMT\_008** - 2÷20 poles, 3,5 mm .138" pitch
- MMT\_009** - 2÷10 poles, 7 mm .276" pitch
- MMT\_00T** - 2÷16 poles, 3,81 mm .150" pitch
- MMT\_007** - 2÷8 poles, 7,62 mm .300" pitch
- MMTH\_008-0N** - 2÷20 poles, 3,5 mm .138" pitch
- MMTH\_009-0N** - 2÷10 poles, 7 mm .276" pitch
- MMTH\_00T-0N** - 2÷16 poles, 3,81 mm .150" pitch
- MMTH\_007-0N** - 2÷8 poles, 7,62 mm .300" pitch



**STH®** for reflow soldering



**SMD** for reflow soldering



**MSL1**

**MSL1**



Height < 8 mm / 0.315"



Height < 8 mm / 0.315"



Last release

**General data**

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 3.5, 5, 7, 10 mm (.138, .197, .276, .394 in)
<b>PCB thickness:</b>	max. 1.6 mm (.063 in)
<b>PCB hole diameter for pin:</b>	min. 1.1 mm (.043 in)
<b>PCB hole diameter for peg:</b>	1.4 mm (.055 in)
<b>Stripping length:</b>	8 mm (.315 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

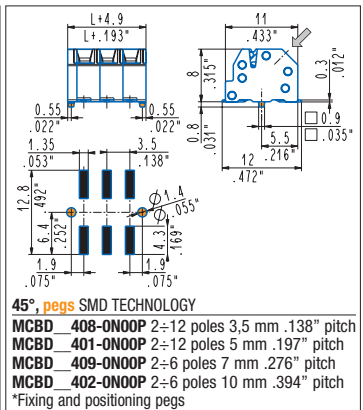
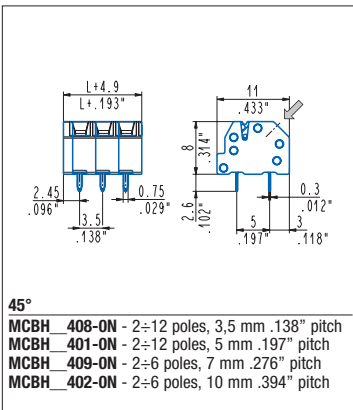
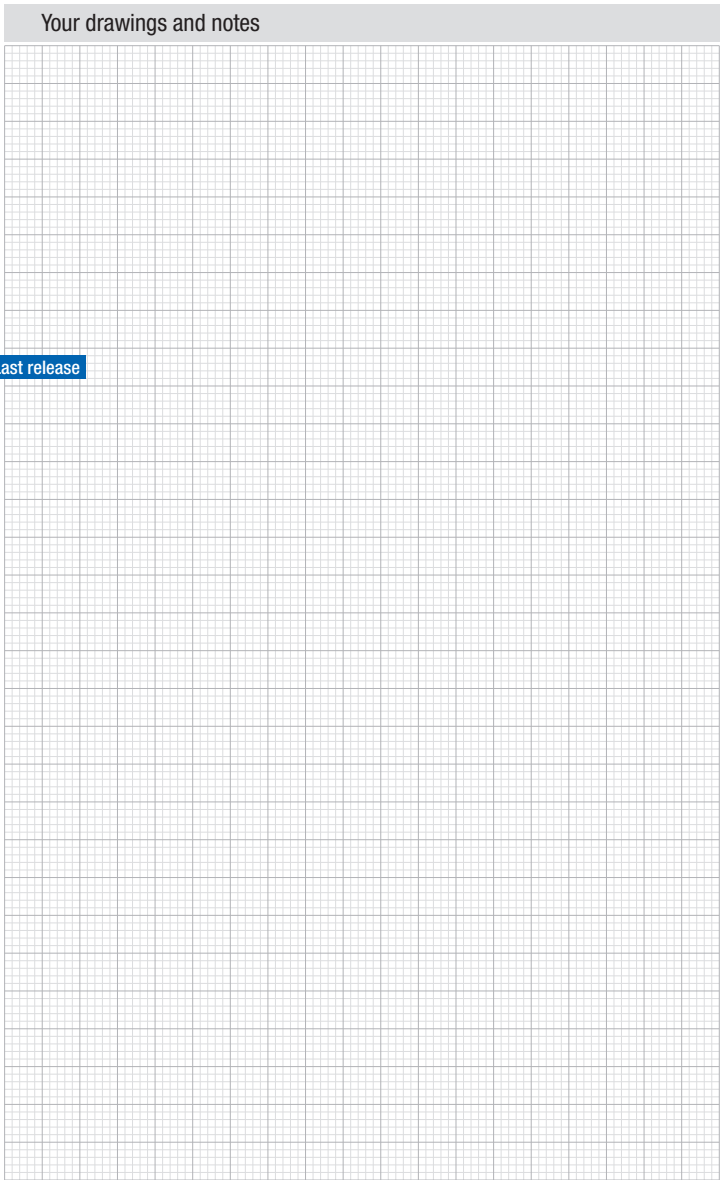
**Certifications**

**UL (n. E167473)**  
 300 V - 8 A - 24÷16 AWG for 3.5 mm, 5 mm pitch  
 300 V - 8 A - 24÷16 AWG for 7 mm, 10 mm pitch

**Data according to**

**IEC EN 60947-7-4**  
 160 V (insulation voltage III/2) - 16 A - 1.5 mm<sup>2</sup> for 3.5 mm  
 320 V (insulation voltage III/2) - 16 A - 1.5 mm<sup>2</sup> for 5 mm pitch  
 630 V (insulation voltage III/2) - 16 A - 1.5 mm<sup>2</sup> for 7 mm pitch  
 1000 V (insulation voltage III/2) - 16 A - 1.5 mm<sup>2</sup> for 10 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.





- STH® for reflow soldering
- MSL1
- 



Your drawings and notes

Last release



### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black
<b>Pitches:</b>	imperial 3.81, 5.08, 7.62, 10.16 mm (.150, .200, .300, .400 in)
<b>PCB thickness:</b>	max. 1.6 mm (.063 in)
<b>PCB hole diameter:</b>	min. 1.1 mm (.043 in)
<b>Stripping length:</b>	10 mm (.39 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

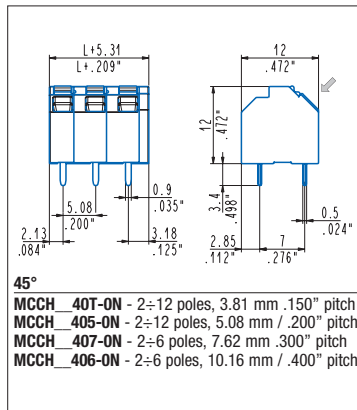
### Certifications

**UL (n. E167473)**  
 300 V - 10 A - 30÷16 AWG for 3.81, 5.08, 7.62 mm pitch  
 600 V - 10 A - 30÷16 AWG for 10.16 mm pitch usage group D

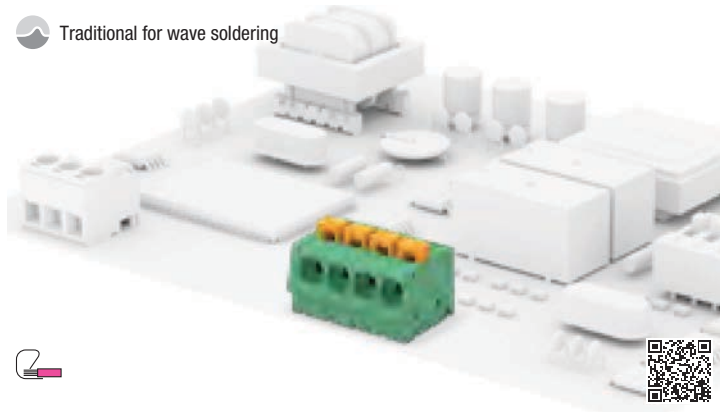
### Data according to

**IEC EN 60947-7-4**  
 160 V (insulation voltage III/2) - 13.5 A - 0.2÷1.5 mm<sup>2</sup> for 3.81 mm pitch  
 320 V (insulation voltage III/2) - 13.5 A - 0.2÷1.5 mm<sup>2</sup> for 5.08 mm pitch  
 630 V (insulation voltage III/2) - 13.5 A - 0.2÷1.5 mm<sup>2</sup> for 7.62 mm pitch  
 1000 V (insulation voltage III/2) - 13.5 A - 0.2÷1.5 mm<sup>2</sup> for 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.



Traditional for wave soldering



### General data

**Dimensional class:** medium  
**Standard colour:** green  
**Pitches:** metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in)  
 imperial 5.08 mm, 7.62 mm, 10.16 mm (.200 in, .300 in, .400 in)  
**PCB thickness:** max. 2.4 mm (.094 in)  
**PCB hole diameter:** min. 1.2 mm (.047 in)  
**Stripping length:** 10÷11 mm (.394 in / .433 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 16 A - 30÷12 AWG for 5 mm, 5.8 mm, 7.5 mm, 7.62 mm pitch  
 600 V - 16 A - 30÷12 AWG for 10 mm, 10.16 mm pitch

#### VDE (n. 40029775)

250 V - 16 A - T110 - 1.5\* mm<sup>2</sup> for 5 mm, 5.8 mm pitch  
 750 V - 16 A - T110 - 1.5\* mm<sup>2</sup> for 7.5 mm, 7.62 mm, 10 mm, 10.16 mm pitch

#### For low rated current version (MCM\_E\_):

250 V - 16 A - T110 - 2.5 mm<sup>2</sup> for 5 mm, 5.8 mm pitch  
 750 V - 16 A - T110 - 2.5 mm<sup>2</sup> for 7.5 mm, 7.62 mm, 10 mm, 10.16 mm pitch

\*This version can be used also with a 2.5 mm<sup>2</sup> wire section.

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our website [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

**0°, side stackable**  
**MCM\_001** - 2÷25 poles, 5 mm / .197" pitch  
**MCM\_E01** - 2÷25 poles, 5 mm / .197" pitch  
 L = (pitch x poles)+1.5 mm  
 L = (pitch x poles)+0.059"

**0°, side stackable**  
**MCM\_005** - 2÷25 poles, 5.08 mm / .200" pitch  
**MCM\_E05** - 2÷25 poles, 5.08 mm / .200" pitch  
 L = (pitch x poles)+1.5 mm  
 L = (pitch x poles)+0.059"

**0°, side stackable**  
**MCM\_0A3** - 2÷12 poles, 7.5 mm / .295" pitch  
**MCM\_EA3** - 2÷12 poles, 7.5 mm / .295" pitch  
 L = pitch x (poles - 1)+7.5 mm+1.5 mm  
 L = pitch x (poles - 1)+0.295"+0.059"

**0°, compact**  
**MCM\_003** - 2÷12 poles, 7.5 mm / .295" pitch  
**MCM\_E03** - 2÷12 poles, 7.5 mm / .295" pitch  
 L = pitch x (poles - 1)+5 mm+1.5 mm  
 L = pitch x (poles - 1)+0.197"+0.059"

**0°, side stackable**  
**MCM\_0A7** - 2÷12 poles, 7.62 mm / .300" pitch  
**MCM\_EA7** - 2÷12 poles, 7.62 mm / .300" pitch  
 L = pitch x (poles - 1)+7.62 mm+1.5 mm  
 L = pitch x (poles - 1)+0.300"+0.059"

**0°, compact**  
**MCM\_007** - 2÷12 poles, 7.62 mm / .300" pitch  
**MCM\_E07** - 2÷12 poles, 7.62 mm / .300" pitch  
 L = pitch x (poles - 1)+5.08 mm+1.5 mm  
 L = pitch x (poles - 1)+0.200"+0.059"

**0°, side stackable**  
**MCM\_0A2** - 2÷13 poles, 10 mm / .394" pitch  
**MCM\_EA2** - 2÷13 poles, 10 mm / .394" pitch  
 L = pitch x (poles - 1)+10 mm+1.5 mm  
 L = pitch x (poles - 1)+0.394"+0.059"

**0°, compact**  
**MCM\_002** - 2÷13 poles, 10 mm / .394" pitch  
**MCM\_E02** - 2÷13 poles, 10 mm / .394" pitch  
 L = pitch x (poles - 1)+5 mm+1.5 mm  
 L = pitch x (poles - 1)+0.197"+0.059"

**0°, side stackable**  
**MCM\_0A6** - 2÷13 poles, 10.16 mm / .400" pitch  
**MCM\_EA6** - 2÷13 poles, 10.16 mm / .400" pitch  
 L = pitch x (poles - 1)+10.16 mm+1.5 mm  
 L = pitch x (poles - 1)+0.400"+0.059"

**0°, compact**  
**MCM\_006** - 2÷13 poles, 10.16 mm / .400" pitch  
**MCM\_E06** - 2÷13 poles, 10.16 mm / .400" pitch  
 L = pitch x (poles - 1)+5.08 mm+1.5 mm  
 L = pitch x (poles - 1)+0.200"+0.059"

**0°, modular**  
**MCM\_0M1** - 1 pole, 5 mm / .197" pitch  
**MCM\_0M3** - 1 pole, 7.5 mm / .295" pitch  
**MCM\_0M2** - 1 pole, 10 mm / .394" pitch  
**MCM\_0M5** - 1 pole, 5.08 mm / .200" pitch  
**MCM\_0M7** - 1 pole, 7.62 mm / .300" pitch  
**MCM\_0M6** - 1 pole, 10.16 mm / .400" pitch

**0°, modular - Low rated current version**  
**MCM\_EM1** - 1 pole, 5 mm / .197" pitch  
**MCM\_EM3** - 1 pole, 7.5 mm / .295" pitch  
**MCM\_EM2** - 1 pole, 10 mm / .394" pitch  
**MCM\_EM5** - 1 pole, 5.08 mm / .200" pitch  
**MCM\_EM7** - 1 pole, 7.62 mm / .300" pitch  
**MCM\_EM6** - 1 pole, 10.16 mm / .400" pitch

**0°, modular**  
**MCM\_0M1** - 1 pole, 5 mm / .197" pitch  
**MCM\_0M3** - 1 pole, 7.5 mm / .295" pitch  
**MCM\_0M2** - 1 pole, 10 mm / .394" pitch  
**MCM\_0M5** - 1 pole, 5.08 mm / .200" pitch  
**MCM\_0M7** - 1 pole, 7.62 mm / .300" pitch  
**MCM\_0M6** - 1 pole, 10.16 mm / .400" pitch

**0°, modular - Low rated current version**  
**MCM\_EM1** - 1 pole, 5 mm / .197" pitch  
**MCM\_EM3** - 1 pole, 7.5 mm / .295" pitch  
**MCM\_EM2** - 1 pole, 10 mm / .394" pitch  
**MCM\_EM5** - 1 pole, 5.08 mm / .200" pitch  
**MCM\_EM7** - 1 pole, 7.62 mm / .300" pitch  
**MCM\_EM6** - 1 pole, 10.16 mm / .400" pitch

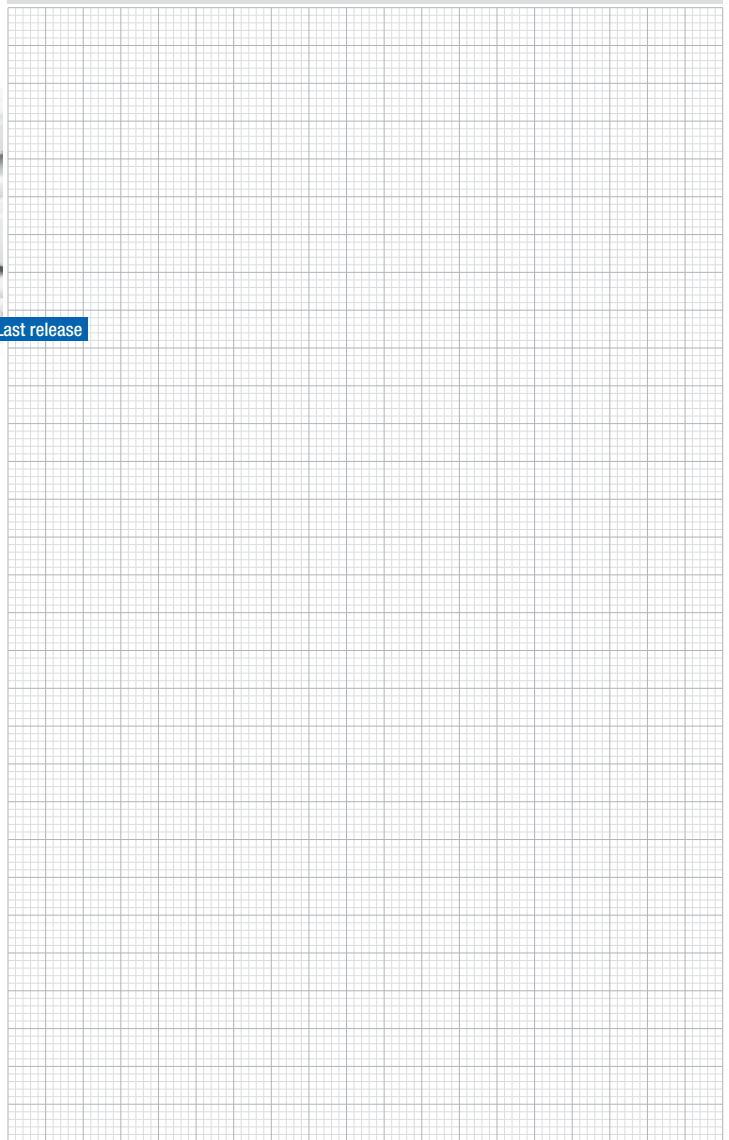
**Terminal plate**  
**MCM000M0**



- STH® for reflow soldering
- MSL1
- 



Your drawings and notes



Last release

### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	black
<b>Pitches:</b>	imperial 5.08 mm (.200 in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	10±11 mm (.394 in / .433 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

UL (n. E167473)  
300 V - 16 A - 30÷12 AWG

### Data according to

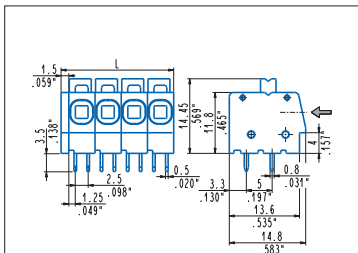
IEC EN 60947-7-4  
250 V - 16 A - T110 - 1.5\* mm<sup>2</sup>

For **low rated current** version (MCMH\_\_E\_\_-ON):  
250 V - 16 A - T110 - 2.5 mm<sup>2</sup>

\*This version can be used also with a 2.5 mm<sup>2</sup> wire section.

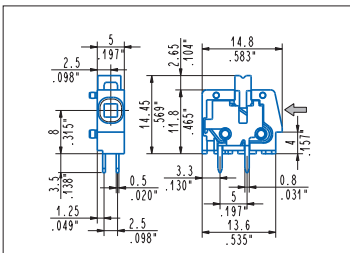
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.



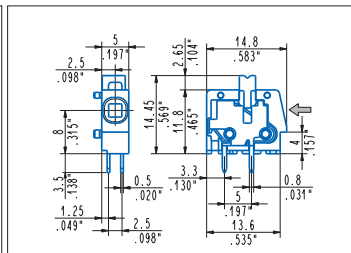
#### 0°, side stackable

**MCMH\_005-ON** 2÷12 poles, 5.08 mm / .200" pitch  
**MCMH\_E05-ON** 2÷12 poles, 5.08 mm / .200" pitch  
L = (pitch x poles)+1.5 mm  
L = (pitch x poles)+0.059"



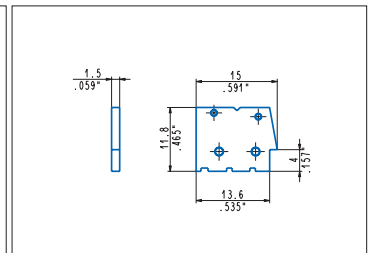
#### 0°, modular

**MCMH\_0M5-ON** - 1 pole, 5.08 mm / .200" pitch



#### 0°, modular - Low rated current version

**MCMH\_EM5-ON** - 1 pole, 5.08 mm / .200" pitch

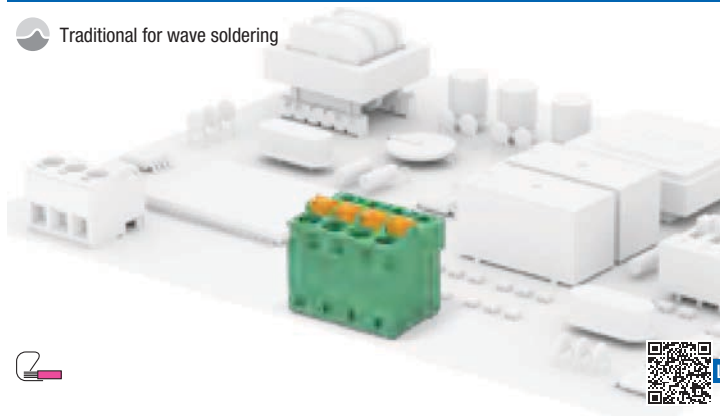


#### Terminal plate

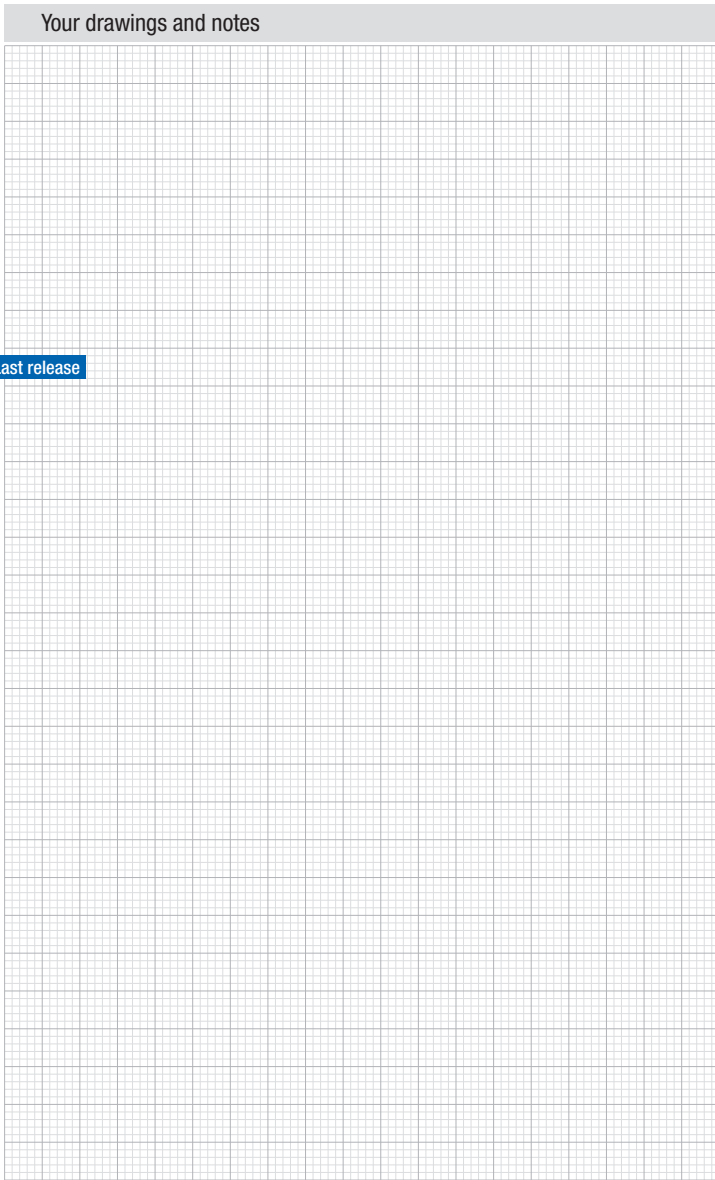
**MCMH000M0-ON**



Traditional for wave soldering



Last release



### General data

<b>Dimensional class:</b>	high
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in) imperial 5.08 mm, 10.16 mm (.200 in, .400 in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	10 mm (.39 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>109 Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

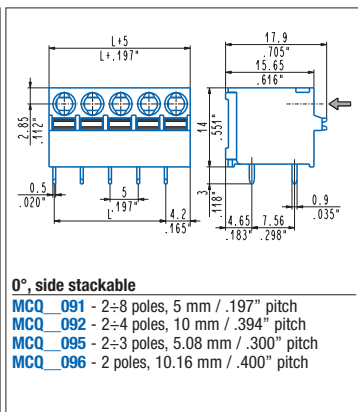
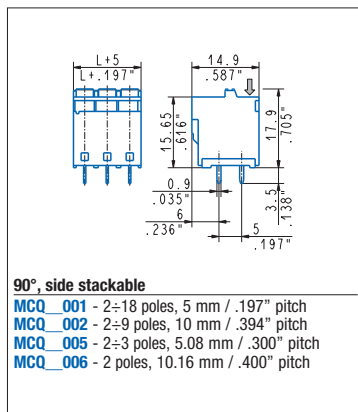
300 V - 16 A - 30÷12 AWG stranded for 5 mm, 5.08 mm pitch  
600 V - 16 A - 30÷12 AWG stranded for 10 mm and 10.16 mm pitch

### Data according to

#### IEC EN 60947-7-4

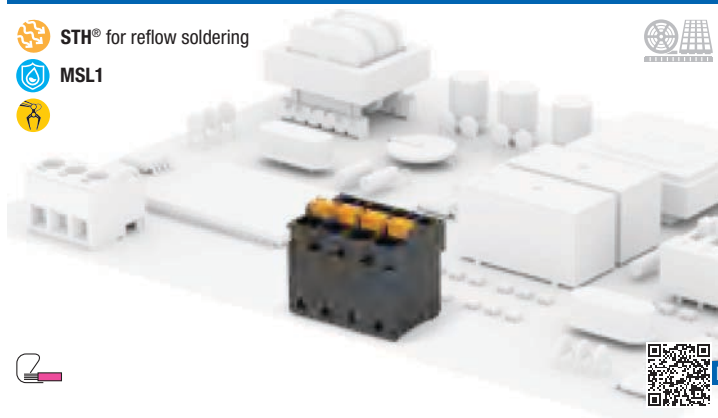
250 V - 12 A - T 110 - 2.5 mm<sup>2</sup> for 5 mm and 5.08 mm pitch  
750 V - 12 A - T 110 - 2.5 mm<sup>2</sup> for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.



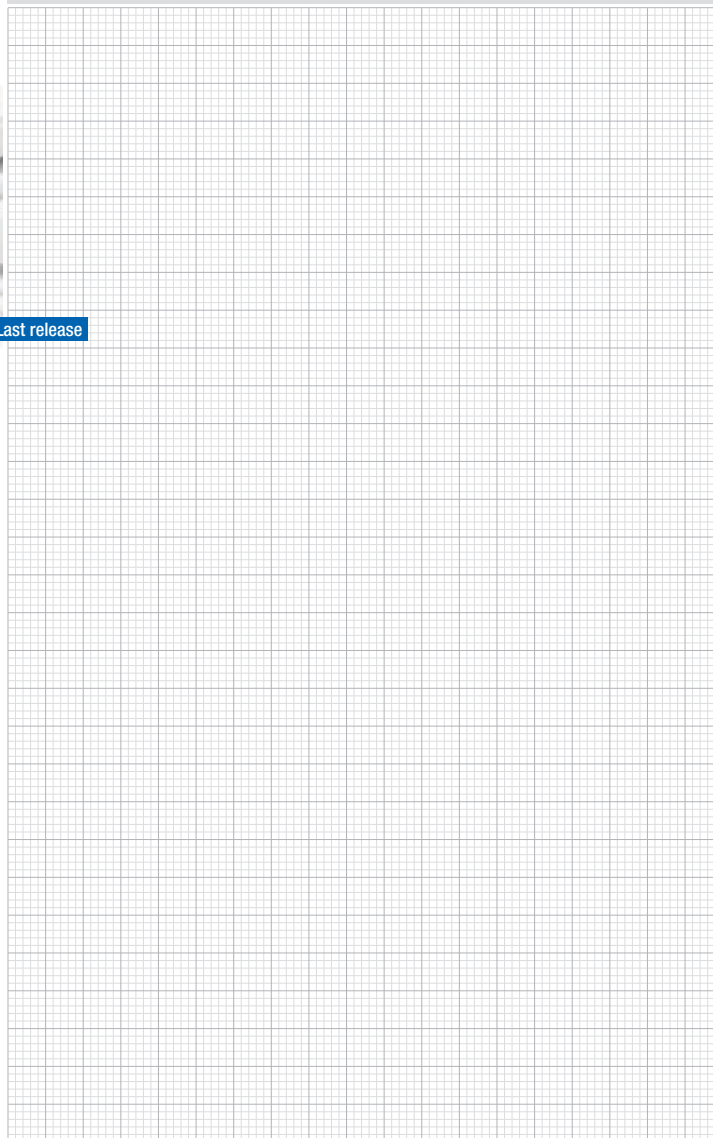
STH® for reflow soldering

MSL1



Last release

Your drawings and notes



### General data

<b>Dimensional class:</b>	high
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	10 mm (.39 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>109 Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Data according to

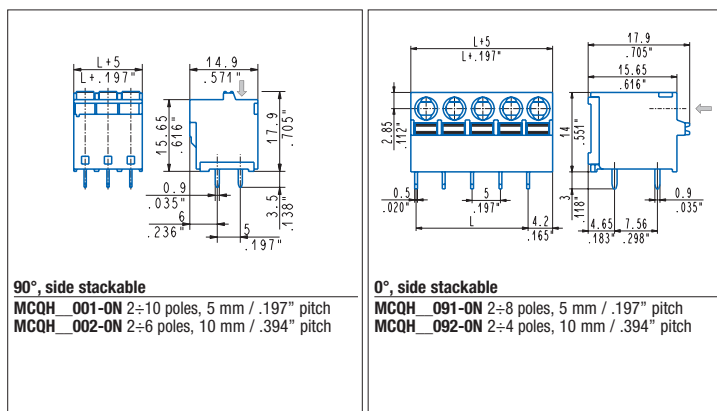
#### UL 1059

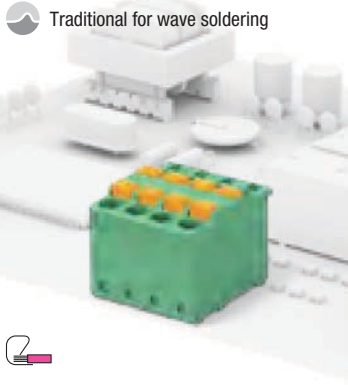
300 V - 16 A - 30÷12 AWG stranded for 5 mm pitch  
600 V - 16 A - 30÷12 AWG stranded for 10 mm pitch

#### IEC EN 60947-7-4

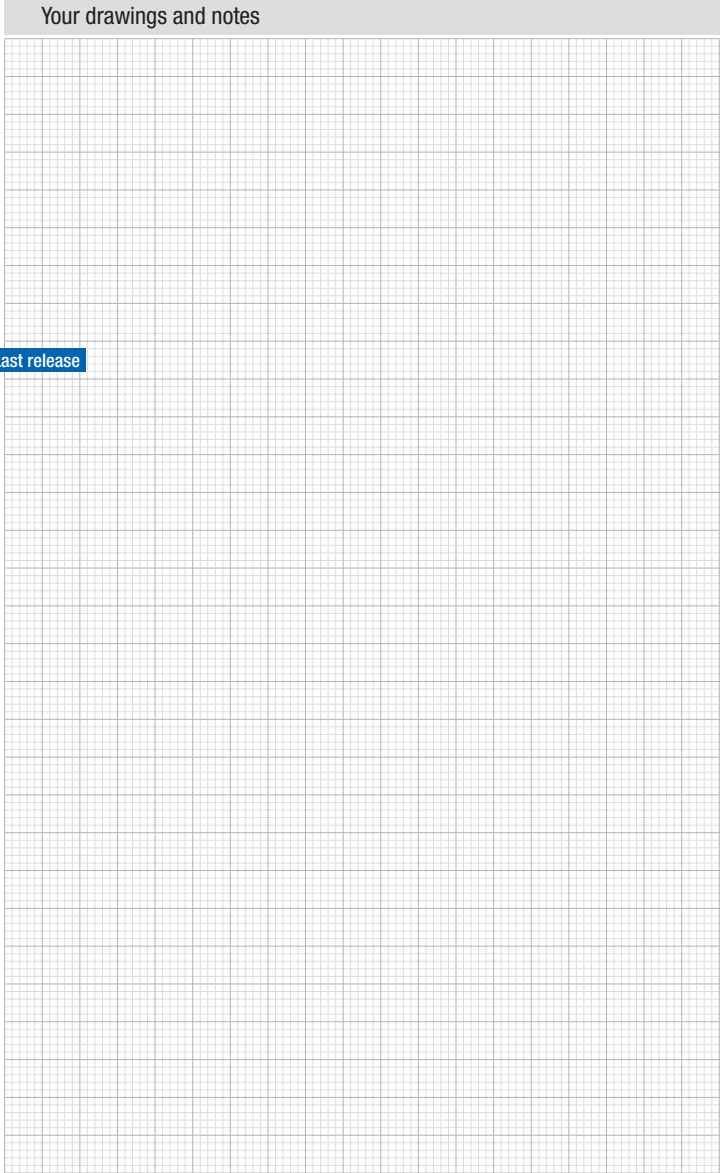
250 V - 12 A - T 110 - 2.5 mm<sup>2</sup> for 5 mm pitch  
750 V - 12 A - T 110 - 2.5 mm<sup>2</sup> for 10 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.





Last release



**General data**

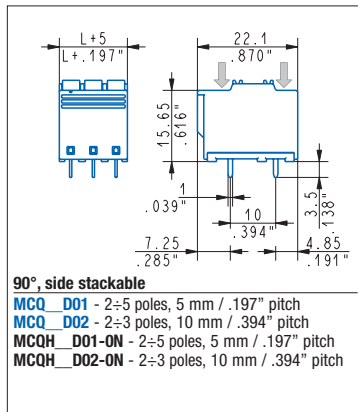
<b>Dimensional class:</b>	high
<b>Standard colour:</b>	green for wave soldering, black for reflow soldering
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	10 mm (.39 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>STH operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>109 Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Data according to**


**UL 1059**  
300 V - 16 A - 30÷12 AWG stranded for 5 mm pitch  
600 V - 16 A - 30÷12 AWG stranded for 10 mm pitch

**IEC EN 60947-7-4**  
250 V - 12 A - T 110 - 2.5 mm² for 5 mm mm pitch  
750 V - 12 A - T 110 - 2.5 mm² for 10 mm mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.





 drawings are  
in 1.1 scale

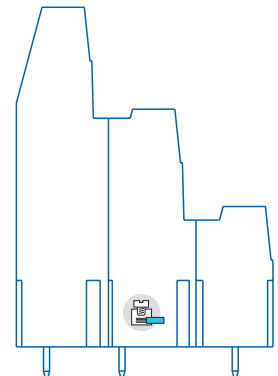
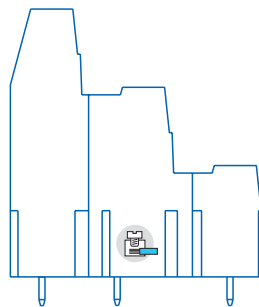
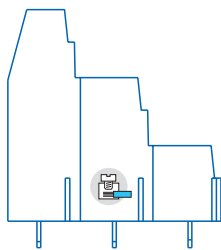
# Plurima®

Multi-level terminal blocks

	<b>PSB</b>	42
	<b>PSM</b>	43
	<b>PSQ</b>	44

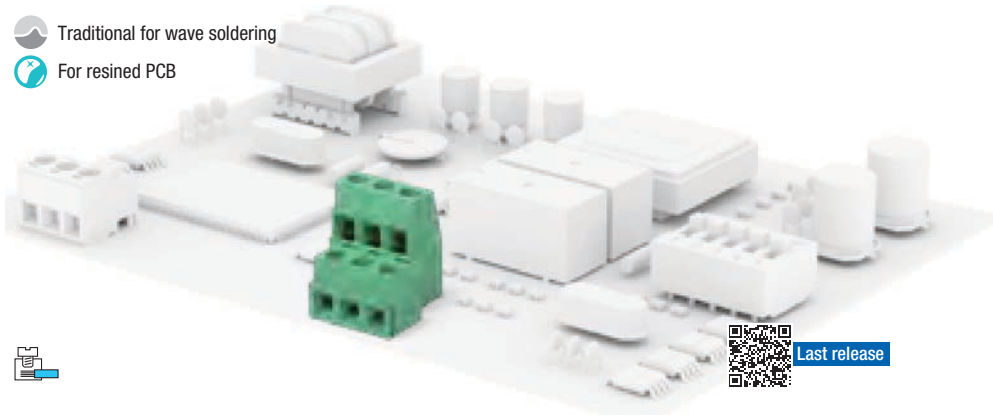






Serie	PSB	PSM	PSQ
Height	28 mm/1.102 in	35.6 mm/1.402 in	45 mm/1.772 in
Pitch mm/in.			
2.54 .100			
3.5 .138			
3.81 .150			
5 .197	x	x	x
5.08 .200	x	x	x
6.35 .250			
7 .276			
7.5 .295			
7.62 .300			
9.52 .375			
10 .394	•	•	•
10.16 .400	•	•	•
12.7 .500			
15 .591			
Wire section mm <sup>2</sup>	0.05÷1.5	0.05÷2.5	0.05÷4
Wire section AWG	30÷16	30÷12	30÷12
Rated current	17.5 A	24 A	32 A
Rated voltage	300 V (x) 750 V (•)	300 V (x) 750 V (•)	300 V (x) 750 V (•)
Soldering type	☉	☉	☉

- Traditional for wave soldering
- For resined PCB



Last release

General data

**Dimensional class:** low  
**Standard colour:** green  
**Pitches:** metric 5 mm, 10 mm (.197 in, .394 in)  
 imperial 5.08 mm, 10.16 mm (.200 in, .400 in)  
**Screw dimension:** M3  
**Recommended/highest tightening torque:** 0.5/0.6 Nm (4.42/5.31 lbf-in)  
**PCB thickness:** max. 2.4 mm (.094 in)  
**PCB hole diameter:** min. 1.2 mm (.047 in)  
**Stripping length:** 5 ÷ 6 mm (.197 ÷ .24 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

Certifications

**UL (n. E167474)**  
 300 V - 13.5 A (factory wiring), 10 A (field wiring)- 30÷16 AWG - 6 lbf-in for 5 mm, 5.08 mm  
 600 V - 13.5 A (factory wiring), 10 A (field wiring)- 30÷16 AWG - 6 lbf-in for 10 mm and 10.16 mm pitch

**VDE (n. 40022743)**  
 250 V - 13.5 A (10 A for "T" and "K" versions) - T 110 - 1 mm<sup>2</sup> for 5 mm and 5.08 mm pitch  
 750 V - 13.5 A (10 A for "T" and "K" versions) - T 110 - 1 mm<sup>2</sup> for 10 mm and 10.16 mm pitch

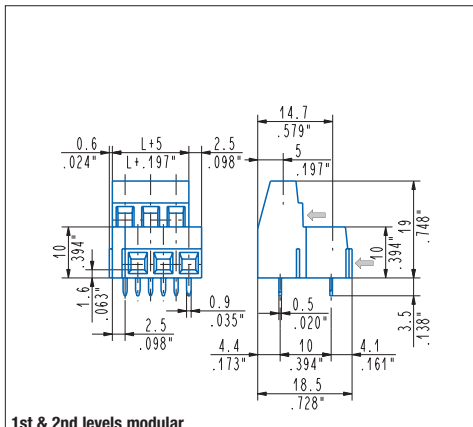
**IMQ (n. ED624)**  
 250 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (13.5 A - 1 mm<sup>2</sup> stranded) for 5 mm and 5.08 mm pitch  
 750 V - T 110 - 17.5 A - 1.5 mm<sup>2</sup> solid (13.5 A - 1 mm<sup>2</sup> stranded) for 10 mm and 10.16 mm pitch

**CSA (n. LR102896)**  
 300 V - 13.5 A - 30÷15 AWG for 5 mm, 5.08 mm  
 600 V - 13.5 A - 30÷15 AWG for 10 mm and 10.16 mm pitch

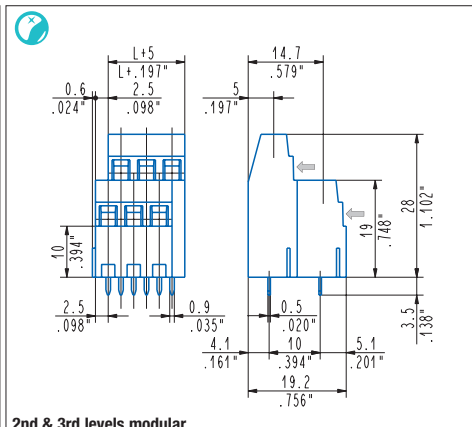
Application values for end-use equipment have to be in accordance with norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

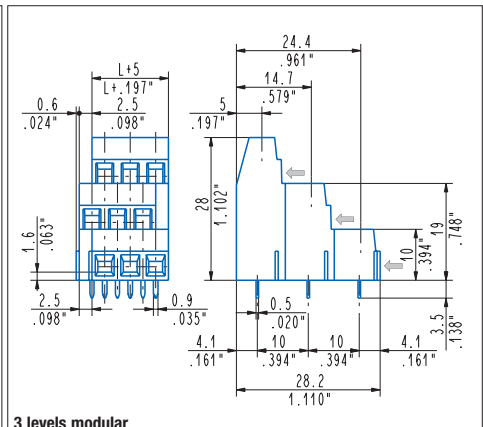
Please refer to your representative Sales Manager for any information about the **STH**® version of this product.



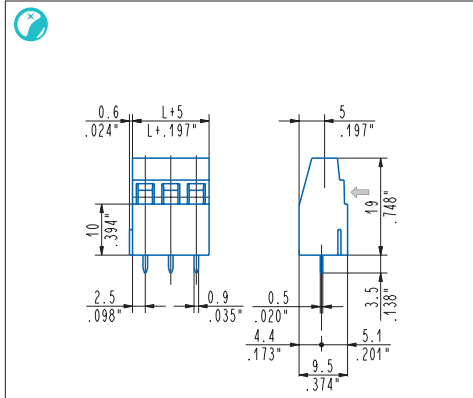
- 1st & 2nd levels modular**
- PSB\_0D1 - 2 ÷ 3 poles, 5 mm / .197" pitch
  - PSB\_0D2 - 1 ÷ 2 poles, 10 mm / .394" pitch
  - PSB\_0D5 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
  - PSB\_0D6 - 1 ÷ 2 poles, 10.16 mm / .400" pitch



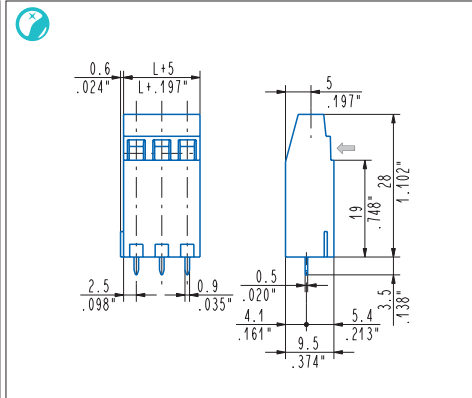
- 2nd & 3rd levels modular**
- PSB\_0K1 - 2 ÷ 3 poles, 5 mm / .197" pitch
  - PSB\_0K2 - 1 ÷ 2 poles, 10 mm / .394" pitch
  - PSB\_0K5 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
  - PSB\_0K6 - 1 ÷ 2 poles, 10.16 mm / .400" pitch



- 3 levels modular**
- PSB\_0T1 - 2 ÷ 3 poles, 5 mm / .197" pitch
  - PSB\_0T2 - 1 ÷ 2 poles, 10 mm / .394" pitch
  - PSB\_0T5 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
  - PSB\_0T6 - 1 ÷ 2 poles, 10.16 mm / .400" pitch



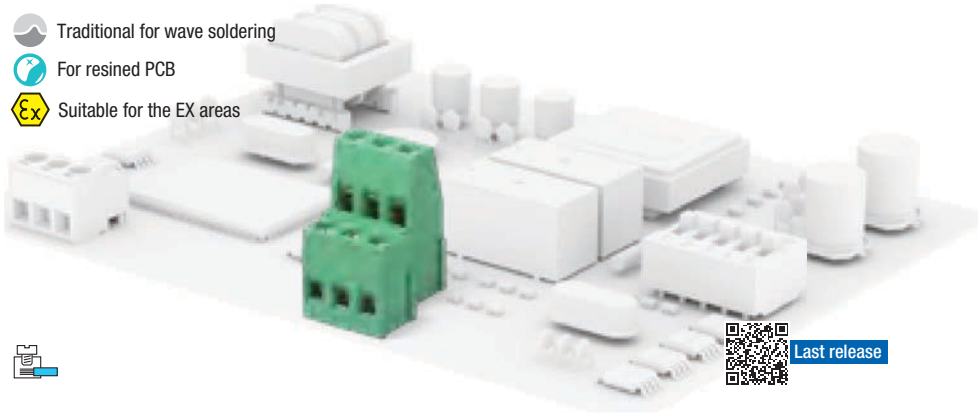
- Medium tower modular**
- PSB\_0M1 - 2 ÷ 8 poles, 5 mm / .197" pitch
  - PSB\_0M2 - 1 ÷ 4 poles, 10 mm / .394" pitch
  - PSB\_0M5 - 2 ÷ 8 poles, 5.08 mm / .200" pitch
  - PSB\_0M6 - 1 ÷ 4 poles, 10.16 mm / .400" pitch



- High tower modular**
- PSB\_0H1 - 2 ÷ 3 poles, 5 mm / .197" pitch
  - PSB\_0H2 - 1 ÷ 2 poles, 10 mm / .394" pitch
  - PSB\_0H5 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
  - PSB\_0H6 - 1 ÷ 2 poles, 10.16 mm / .400" pitch



- Traditional for wave soldering
- For resined PCB
- Suitable for the EX areas



Last release

### General data

**Dimensional class:** medium  
**Standard colour:** green  
**Pitches:** metric 5 mm, 10 mm (.197 in, .394 in)  
 imperial 5.08 mm, 10.16 mm (.200 in, .400 in)  
**Screw dimension:** M3  
**Recommended/highest tightening torque:** 0.5/0.6 Nm (4.42/5.31 lbf-in)  
**PCB thickness:** max. 2.4 mm (.094 in)  
**PCB hole diameter:** min. 1.4 mm (.055 in)  
**Stripping length:** 5.5 ÷ 6.5 mm (.22 ÷ .26 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

### Certifications

**UL (n. E167473)**  
 300 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm pitch  
 600 V - 17.5 A - 30÷12 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch

**VDE (n. 40022741)**  
 250 V - 24 A (20 A for "T" and "K" versions) - 2.5 mm<sup>2</sup> - T 110 for 5 mm and 5.08 mm pitch  
 750 V - 24 A (20 A for "T" and "K" versions) - 2.5 mm<sup>2</sup> - T 110 for 10 mm and 10.16 mm pitch

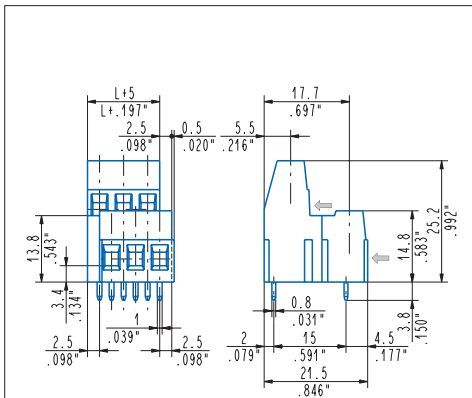
**IMQ (n. ED625)**  
 250 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 5 mm and 5.08 mm pitch  
 750 V - 24 A - 2.5 mm<sup>2</sup> - T 110 for 10 mm and 10.16 mm pitch

**CSA (n. LR102896)**  
 300 V - 17.5 A - 30÷12 AWG for 5 mm, 5.08 mm pitch  
 600 V - 17.5 A - 30÷12 AWG for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

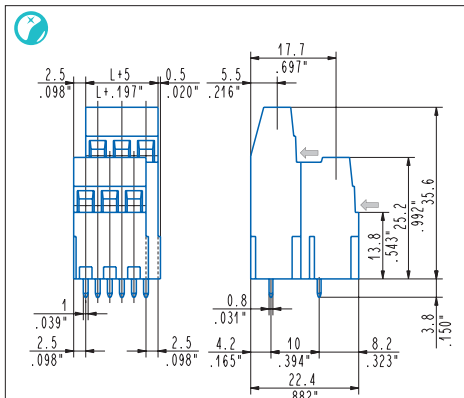
A higher number of poles is obtained by combining together **modular** parts.

Please refer to your representative Sales Manager for any information about the **STH**® version of this product.



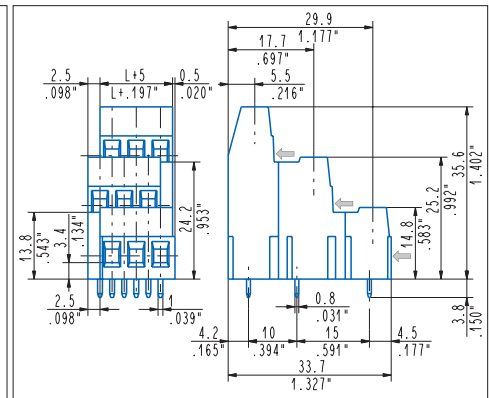
#### 1st & 2nd levels modular

- PSM\_OD1** - 2 ÷ 3 poles, 5 mm / .197" pitch
- PSM\_OD2** - 1 ÷ 2 poles, 10 mm / .394" pitch
- PSM\_OD5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- PSM\_OD6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch



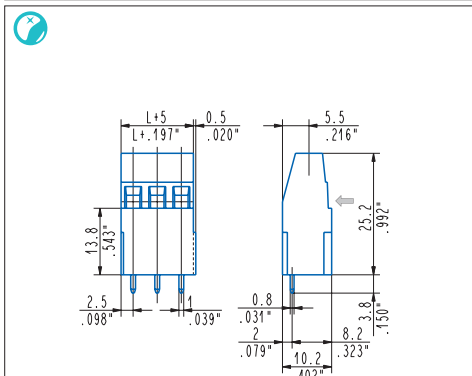
#### 2nd & 3rd levels modular

- PSM\_OK1** - 2 ÷ 3 poles, 5 mm / .197" pitch
- PSM\_OK2** - 1 ÷ 2 poles, 10 mm / .394" pitch
- PSM\_OK5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- PSM\_OK6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch



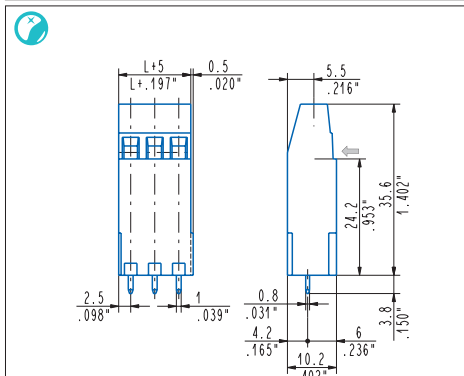
#### 3 levels modular

- PSM\_OT1** - 2 ÷ 3 poles, 5 mm / .197" pitch
- PSM\_OT2** - 1 ÷ 2 poles, 10 mm / .394" pitch
- PSM\_OT5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- PSM\_OT6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch



#### Medium tower modular

- PSM\_OM1** - 2 ÷ 8 poles, 5 mm / .197" pitch
- PSM\_OM2** - 1 ÷ 4 poles, 10 mm / .394" pitch
- PSM\_OM5** - 2 ÷ 8 poles, 5.08 mm / .200" pitch
- PSM\_OM6** - 1 ÷ 4 poles, 10.16 mm / .400" pitch

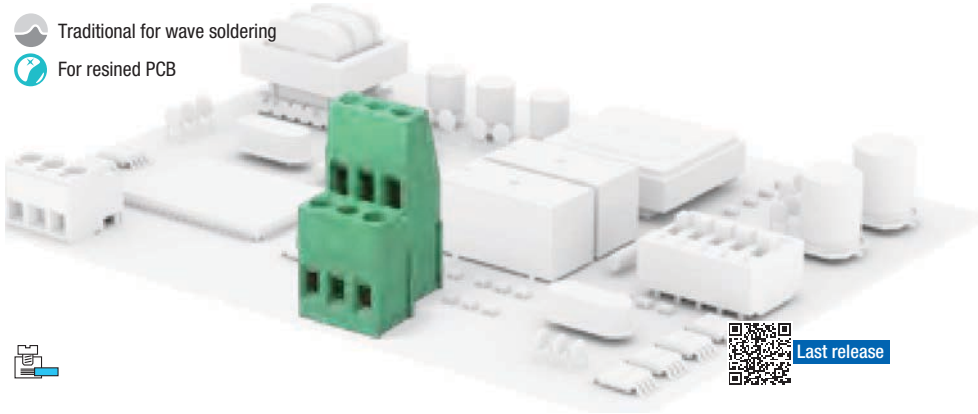


#### High tower modular

- PSM\_OH1** - 2 ÷ 3 poles, 5 mm / .197" pitch
- PSM\_OH2** - 1 ÷ 2 poles, 10 mm / .394" pitch
- PSM\_OH5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- PSM\_OH6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch



- Traditional for wave soldering
- For resined PCB



Last release

General data

<b>Dimensional class:</b>	high
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in) imperial 5.08 mm, 10.16 mm (.200 in, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.31 lbf-in)
<b>PCB thickness:</b>	max. 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min. 1.4 mm (.055 in)
<b>Stripping length:</b>	6.5 ÷ 7 mm (.26 ÷ .28 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>STH operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

Certifications

**UL (n. E167473)**  
 300 V - 24 A (factory wiring), 20 A (field wiring) - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm pitch  
 600 V - 24 A (factory wiring), 20 A (field wiring) - 30÷12 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch  
 Application values for end-use equipment have to be in accordance to UL norms and applicable to it.

**VDE (n. 40022743)**  
 250 V - 24 A (20 A for "K" and "T" versions) - T 110 - 2.5 mm<sup>2</sup> for 5 mm and 5.08 mm pitch  
 750 V - 24 A (20 A for "K" and "T" versions) - T 110 - 2.5 mm<sup>2</sup> for 10 mm and 10.16 mm pitch

**IMQ (n. ED623)**  
 250 V - T 110 - 32 A - 4 mm<sup>2</sup> solid (24 A - 2.5 mm<sup>2</sup> stranded) for 5 mm and 5.08 mm pitch  
 750 V - T 110 - 32 A - 4 mm<sup>2</sup> solid (24 A - 2.5 mm<sup>2</sup> stranded) for 10 mm and 10.16 mm pitch

**CSA (n. LR102896)**  
 300 V - 24 A - 30÷11 AWG for 5 mm, 5.08 mm pitch  
 600 V - 24 A - 30÷11 AWG for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please refer to your representative Sales Manager for any information about the **STH**® version of this product.

**Medium tower modular**  
**PSQ\_0M1** - 2 ÷ 8 poles, 5 mm / .197" pitch  
**PSQ\_0M2** - 1 ÷ 2 poles, 10 mm / .394" pitch  
**PSQ\_0M5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch  
**PSQ\_0M6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch

**1st & 2nd levels modular**  
**PSQ\_0D1** - 2 ÷ 3 poles, 5 mm / .197" pitch  
**PSQ\_0D2** - 1 ÷ 2 poles, 10 mm / .394" pitch  
**PSQ\_0D5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch  
**PSQ\_0D6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch

**3 levels modular**  
**PSQ\_0T1** - 2 ÷ 3 poles, 5 mm / .197" pitch  
**PSQ\_0T2** - 1 ÷ 2 poles, 10 mm / .394" pitch  
**PSQ\_0T5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch  
**PSQ\_0T6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch

**High tower modular**  
**PSQ\_0H1** - 2 ÷ 3 poles, 5 mm / .197" pitch  
**PSQ\_0H2** - 1 ÷ 2 poles, 10 mm / .394" pitch  
**PSQ\_0H5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch  
**PSQ\_0H6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch

**2nd & 3rd levels modular**  
**PSQ\_0K1** - 2 ÷ 3 poles, 5 mm / .197" pitch  
**PSQ\_0K2** - 1 ÷ 2 poles, 10 mm / .394" pitch  
**PSQ\_0K5** - 2 ÷ 3 poles, 5.08 mm / .200" pitch  
**PSQ\_0K6** - 1 ÷ 2 poles, 10.16 mm / .400" pitch


**4 levels**  
**PSQ\_0Q5\*** - 2 ÷ 14 poles, 5.08 mm / .200" pitch  
**PSQ\_0Q6\*** - 1 ÷ 12 poles, 10.16 mm / .400" pitch

\*The product is supplied already assembled



# Connectors

 Clamp technology


 Board to board connection






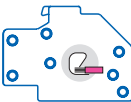






 Spring technology


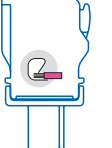

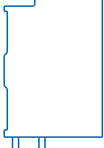


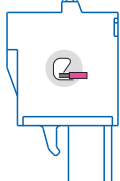
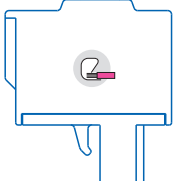




 Wire to wire connection



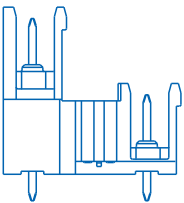
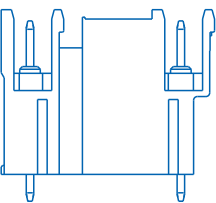
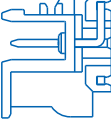
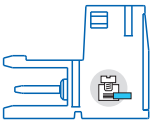
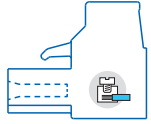





	<b>CXF</b>	48
	<b>CSF</b>	49
	<b>CSM-CSMH</b>	50
	<b>CSMD</b>	51
	<b>CLF</b>	52
	<b>CHF</b>	53
	<b>CHF D.</b>	54
	<b>CLMH</b>	55
	<b>CTF</b>	56
	<b>CKF</b>	57
	<b>CBF</b>	58
	<b>CTM-CTMH</b>	59-60
	<b>CTM D.-CTMH D.</b>	62
	<b>CIF</b>	63
	<b>CVF</b>	64
	<b>CCF</b>	65
	<b>CCF D.</b>	66
	<b>CGF</b>	67
	<b>CIM-CIMH</b>	68-70
	<b>CPM HIGH</b>	72
	<b>CPM-CPMH</b>	73
	<b>CRM</b>	74
	<b>CIMH N.</b>	75
	<b>CGM</b>	76
	<b>CUF</b>	77



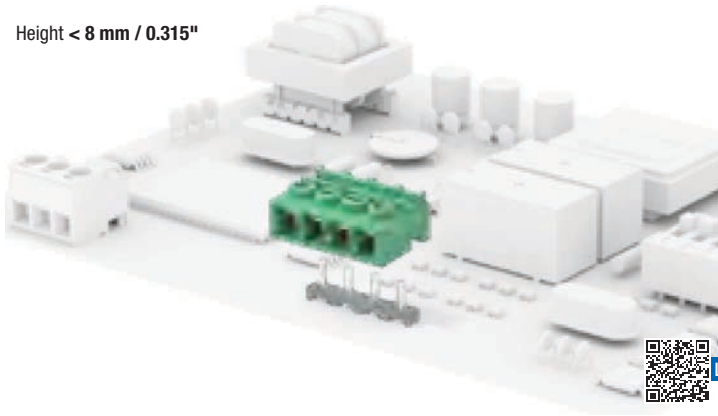
 drawings are in 1:1 scale

									
Serie	<b>CXF</b>	<b>CSF</b>	<b>CSM-CSMH</b>	<b>CSMD</b>	<b>CLF</b>	<b>CHF</b>	<b>CHF D.</b>	<b>CLMH</b>	<b>CTF</b>
Height	7.95 mm/.313 in	11.5 mm/.453 in	9 mm/.355 in	9.5 mm/.374 in	11.1 mm/.437 in	12.5 mm/.492 in	16 mm/.630 in	12.5 mm/.492 in	11.1 mm/.437 in
2.54 .100									
3.5 .138					•	x	x	x	x
3.81 .150									•
5 .197	•	x	x	x					•
5.08 .200									•
6.35 .250									
7 .276					•	•		•	□
7.5 .295									
7.62 .300									□
9.52 .375									
10 .394		•	•	•					□
10.16 .400									□
12.7 .500									
15 .591									
Wire section mm <sup>2</sup>	0.2÷1.5	0.05÷2.5			0.5÷1.5	0.5÷1.5	0.5÷1.5		0.05÷1.5
Wire section AWG	28÷16	30÷14			30÷16	24÷16	24÷16		30÷14
Rated current	10 A	12 A	12 A	12 A	10 A	4 A	8 A	10 A	11 A
Rated voltage	300 V (•)	300 V (x) 1000 V (•)	300 V (x) 1000 V (•)	300 V (x) 1000 V (•)	300 V (•)	150 V (x) 300 V (•)	150 V (x) 300 V (•)	150 V (x) 300 V (•)	300 V (x) 600 V (•) 1000 V (□)
Soldering type									

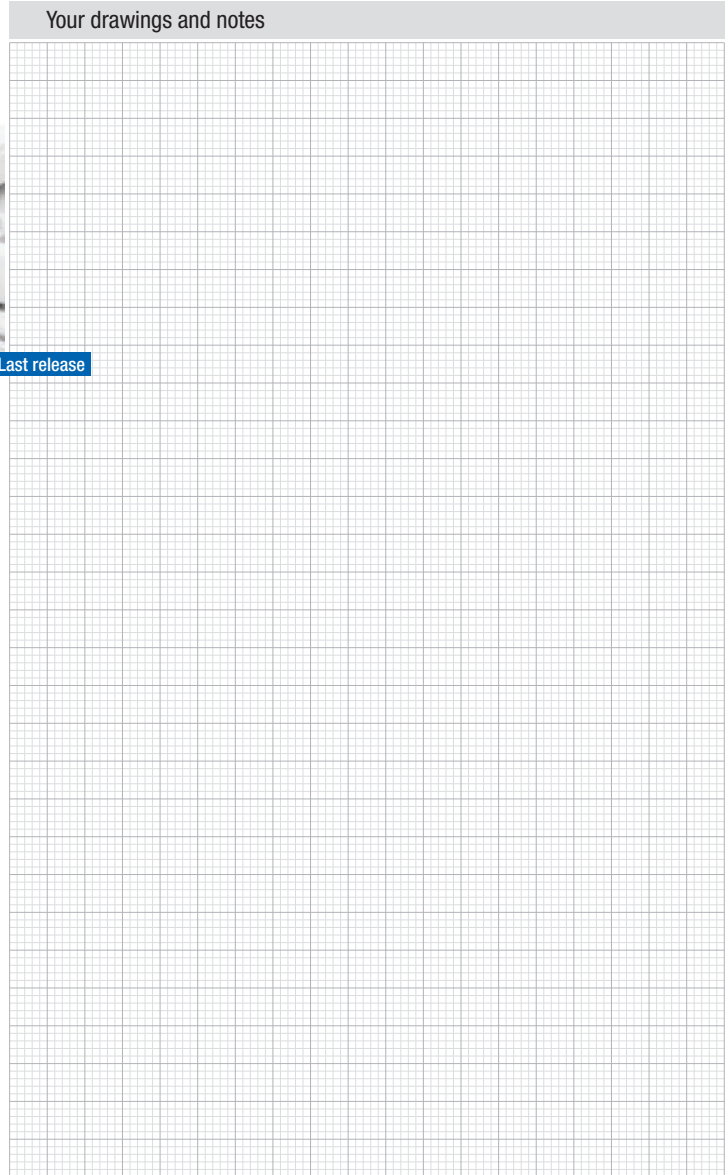
									
Serie	<b>CKF</b>	<b>CBF</b>	<b>CTM-CTMH</b>	<b>CTM D.-CTMH D.</b>	<b>CIF</b>	<b>CVF</b>	<b>CCF</b>	<b>CCF D.</b>	<b>CGF</b>
Height	19.2 mm/.756 in	20.85 mm/.821 in	9.2 mm/.362 in	18.6 mm/.732 in	15.5 mm/.610 in	25 mm/.984 in	25.4 mm/1 in	25.8 mm/1.016 in	18.9 mm/.744 in
2.54 .100									
3.5 .138	•	x	x	x					
3.81 .150	•	x	x						
5 .197			•		x	x	x	x	x
5.08 .200			•		x	x	x		x
6.35 .250									
7 .276	□	•	□	•					•
7.5 .295					•	•			•
7.62 .300	□	•	□		•	•			•
9.52 .375									
10 .394			□		□	□	•	•	□
10.16 .400			□		□	□	•	•	□
12.7 .500									
15 .591									
Wire section mm <sup>2</sup>	0.05÷1.5	0.14÷1.5			0.05÷2.5	0.05÷2.5	0.2÷2.5	0.2÷2.5	
Wire section AWG	30÷14	30÷14			30÷12	30÷12	30÷12	30÷12	
Rated current	11 A	11 A	11 A	11 A	16 A	16 A	12 A	12 A	16 A
Rated voltage	300 V (•) 1000 V (□)	150 V (x) 300 V (•)	300 V (x) 600 V (•) 1000 V (□)	300 V (x) 600 V (•)	300 V (x) 600 V (•) 1000 V (□)	300 V (x) 600 V (•) 1000 V (□)	300 V (x) 1000 V (•)	300 V (x) 1000 V (•)	300 V (x) 600 V (•) 1000 V (□)
Soldering type									

							
Serie	<b>CIM-CIMH</b>	<b>CPM HIGH</b>	<b>CPM-CPMH</b>	<b>CRM</b>	<b>CIMH N.</b>	<b>CGM</b>	<b>CUF</b>
Height	12 mm/.472 in	22.08 mm / .869 in	22.08 mm / .869 in	22 mm / .866 in	16.5 mm/.650 in	15 mm/.591 in	15.5 mm/.610 in
2.54 .100							
3.5 .138							
3.81 .150							
5 .197	x	x	x	x	•	x	x
5.08 .200	x		x	x		x	
6.35 .250							
7 .276							
7.5 .295	•					•	
7.62 .300	•					•	
9.52 .375							
10 .394	□	•	•	•		□	•
10.16 .400	□		•	•		□	
12.7 .500							
15 .591							
Wire section mm <sup>2</sup>						0.05÷2.5	0.05÷1.5
Wire section AWG						30÷12	30÷12
Rated current	16 A	12 A	16 A	16 A	16 A	16 A	10 A
Rated voltage	300 V (x) 600 V (•) 1000 V (□)	300 V (x) 1000 V (•)	300 V (x) 1000 V (•)	300 V (x) 1000 V (•)	300 V (•)	300 V (x) 600 V (•) 1000 V (□)	300 V (x) 750 V (•)
Soldering type							

Height < 8 mm / 0.315"



Last release



### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm (.197 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5 Nm (4.42 lbf-in)
<b>Stripping length:</b>	6 mm (.24 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

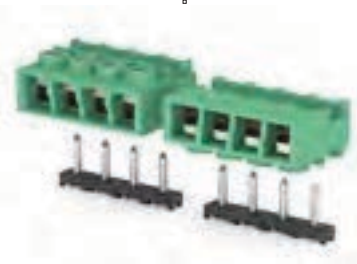
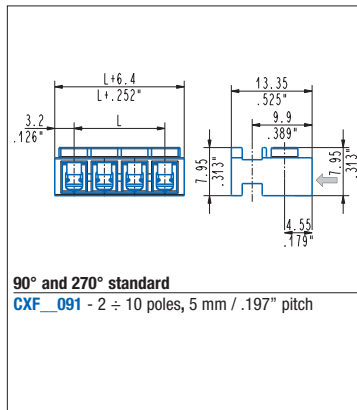
### Certifications

UL (n. E167473)

300 V - 10 A - 28÷16 AWG

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



### Usable with:

**CSM**

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**CSMH**

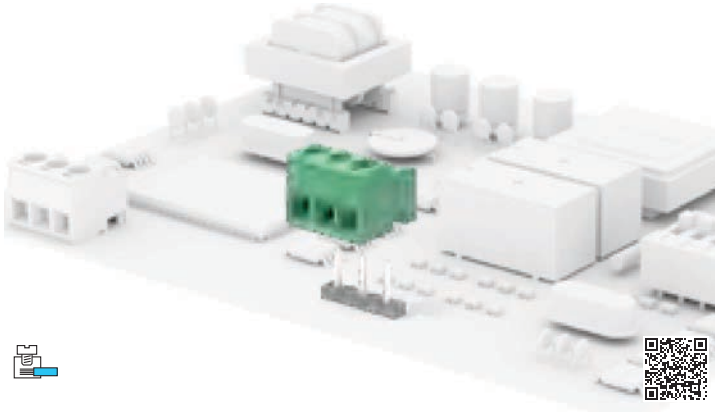
Page 50

**CSMD**

Page 51







**General data**

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.30 lbf-in)
<b>Stripping length:</b>	4 ÷ 6 mm (.16 ÷ .24 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulating resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**

300 V - 10 A - 30÷14 AWG - 6 lbf-in for 5 mm pitch (12 A for "0" version)  
 600 V - 10 A - 30÷14 AWG - 6 lbf-in for 10 mm pitch (12 A for "0" version)

**VDE (n. 40013401)**

250 V - 10 A - 1.5 mm<sup>2</sup> - T95 - 2.5kV - 2 (12 A - T90 for "1" version) for 5 mm pitch  
 750 V - 10 A - 1.5 mm<sup>2</sup> - T95 - 2.5kV - 2 (12 A - T90 for "1" version) for 10 mm pitch

**IMQ (n. EE099)**

300 V - 11 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 - T110 / 300 V 11 A - 2.5 mm<sup>2</sup> - T110 - 4 kV - III/2 - T110 for 5 mm pitch  
 1000 V - 11 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 - T110 / 1000 V 11 A - 2.5 mm<sup>2</sup> - T110 - 8 kV - III/2 - T110 for 10 mm pitch

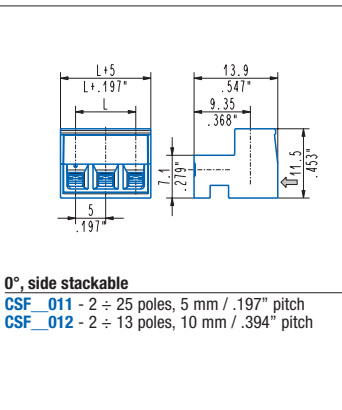
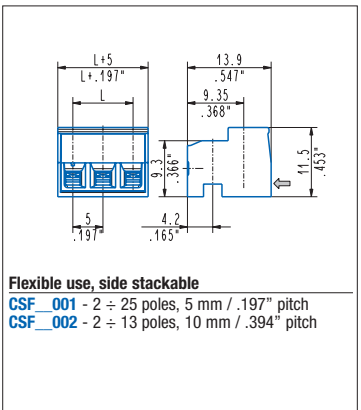
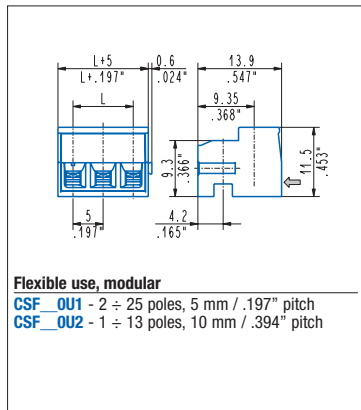
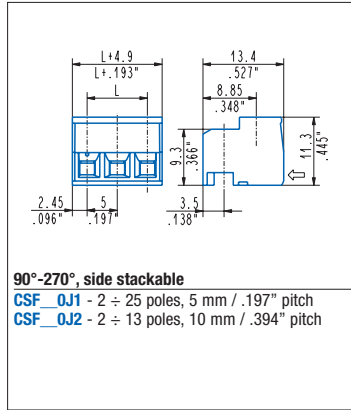
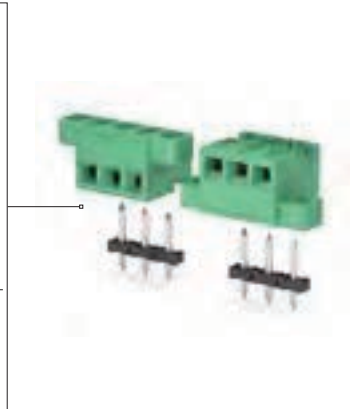
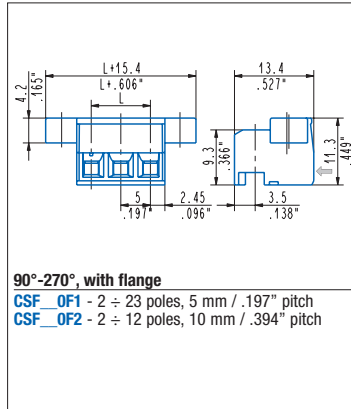
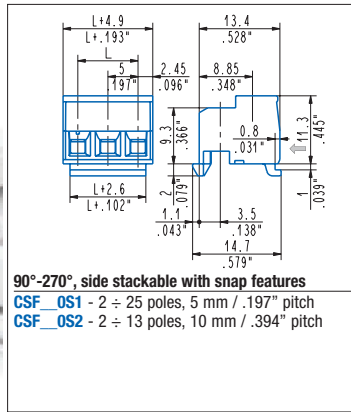
**CSA: (n. LR102896)**

300 V - 12 A - 30÷14 AWG for 5 mm pitch (10A for "9" and "N" versions)  
 600 V - 12 A - 30÷14 AWG for 10 mm pitch (10A for "9" and "N" versions)

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"



Usable with:

CSM

CSMH

CSMD

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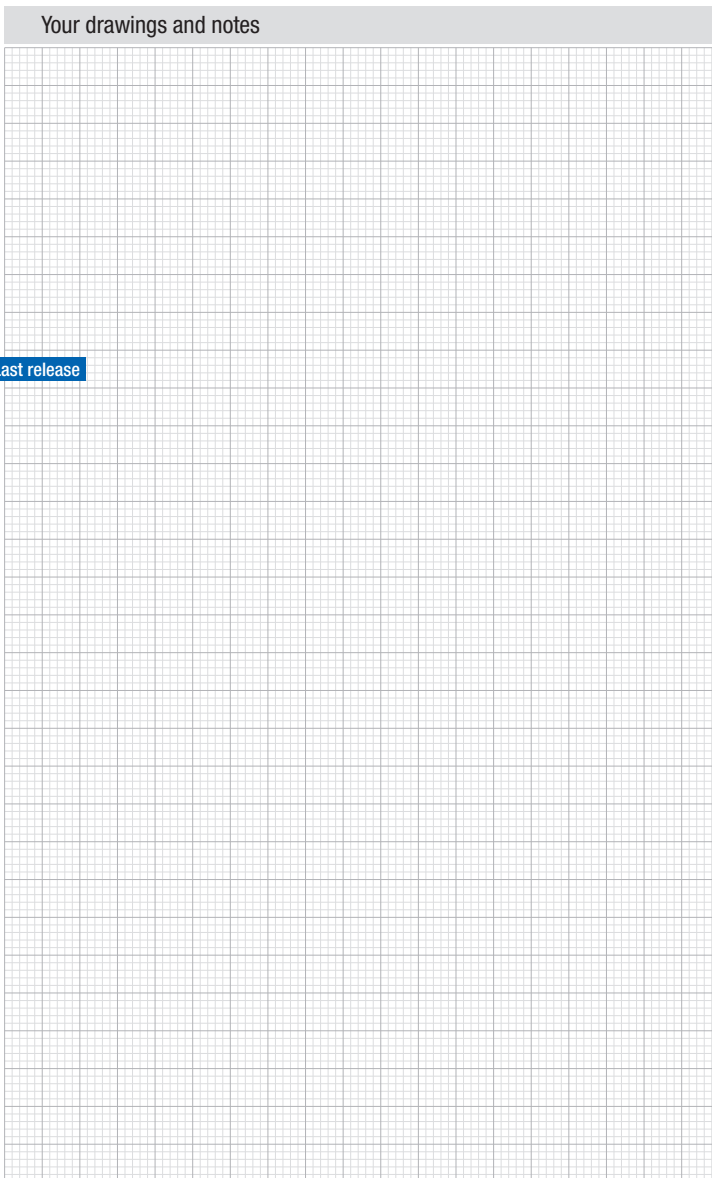


**STH®** for reflow soldering

**MSL1**



Last release



**General data**

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green for wave soldering, black for reflow soldering
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in)
<b>PCB thickness:</b>	max 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min 1.4 mm (.055 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>STH perating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**

300 V - 12 A - for 5 mm pitch  
600 V - 12 A - for 10 mm pitch

**VDE (n. 40013401)**

250 V - 12 A - 1.5 mm<sup>2</sup> - T95 - 2,5kV - 2 for 5 mm pitch  
750 V - 12 A - 1.5 mm<sup>2</sup> - T95 - 2,5kV - 2 for 10 mm pitch

**IMQ (n. EE099)**

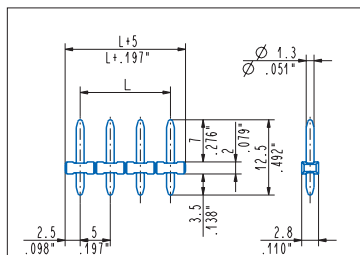
300 V - 11 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 - T110 / 300 V 11 A - 2.5 mm<sup>2</sup> - T110 - 4 kV - III/2 - T110 for 5 mm pitch  
1000 V - 11 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 - T110 / 1000 V 11 A - 2.5 mm<sup>2</sup> - T110 - 8 kV - III/2 - T110 for 10 mm pitch

**CSA (n. LR102896)**

300 V - 12 A for 5 mm pitch  
600 V - 12 A for 10 mm pitch

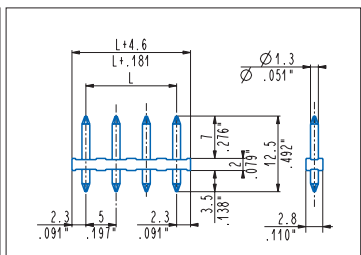
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



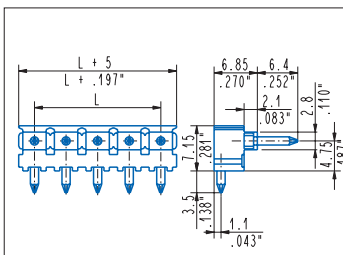
**0°, not side stackable**

- CSM\_0A1 - 2 ÷ 25 poles, 5 mm / .197" pitch
- CSM\_0A2 - 2 ÷ 13 poles, 10 mm / .394" pitch
- CSMH\_0A1-ON 2 ÷ 25 poles, 5 mm / .197" pitch
- CSMH\_0A2-ON 2 ÷ 13 poles, 10 mm / .394" pitch



**0°, side stackable**

- CSM\_0S1 - 2 ÷ 8 poles, 5 mm / .197" pitch
- CSM\_0S2 - 2 ÷ 4 poles, 10 mm / .394" pitch
- CSMH\_0S1-ON 2 ÷ 8 poles, 5 mm / .197" pitch
- CSMH\_0S2-ON 2 ÷ 4 poles, 10 mm / .394" pitch



**90°**

- CSM\_9A1 - 2 ÷ 25 poles, 5 mm / .197" pitch
- CSM\_9A2 - 2 ÷ 13 poles, 10 mm / .394" pitch
- CSMH\_9A1-ON 2 ÷ 25 poles, 5 mm / .197" pitch
- CSMH\_9A2-ON 2 ÷ 13 poles, 10 mm / .394" pitch

Usable with:

CXF

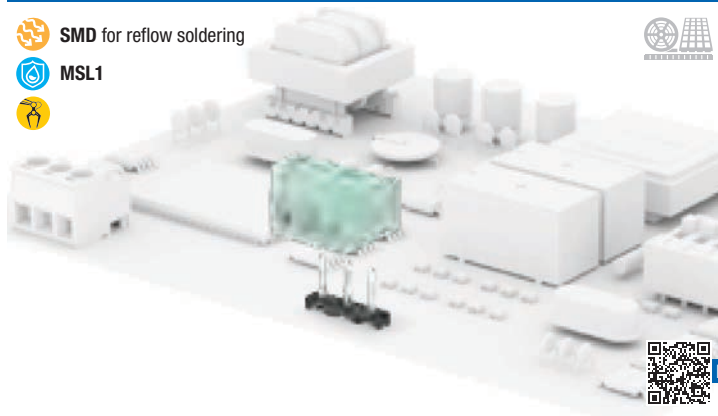
CSF

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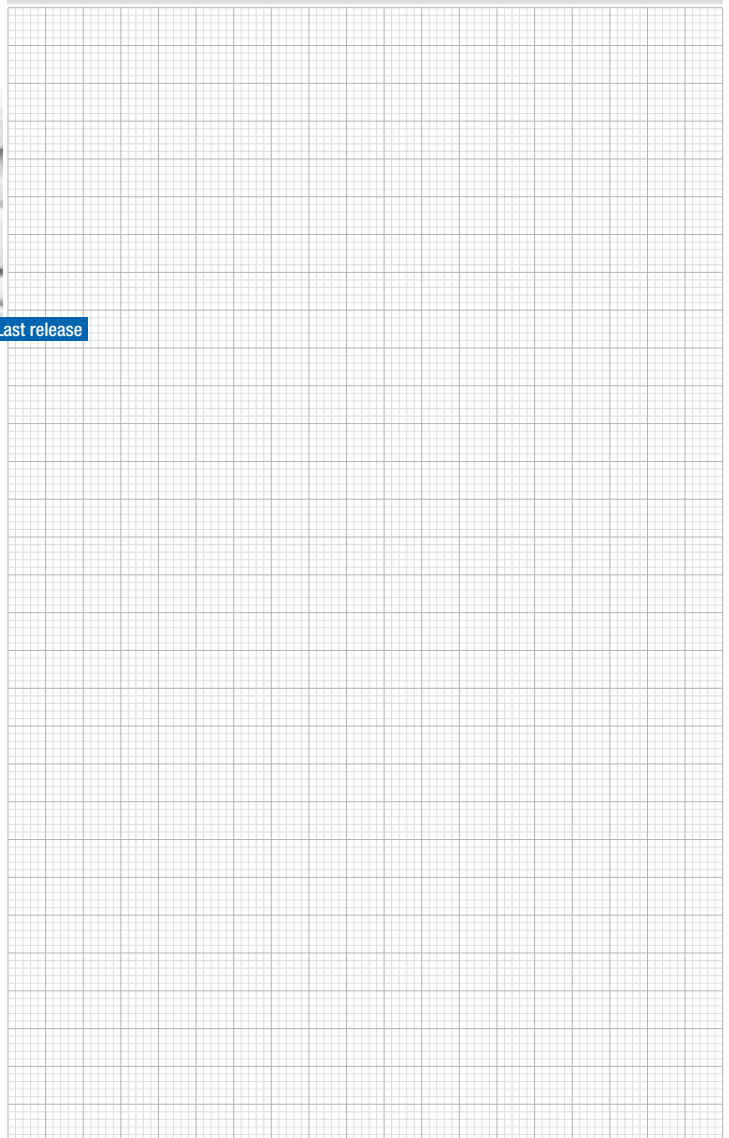


- SMD for reflow soldering
- MSL1
- 



Last release

Your drawings and notes



**General data**

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in)
<b>PCB thickness:</b>	max 2.4 mm (.094 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

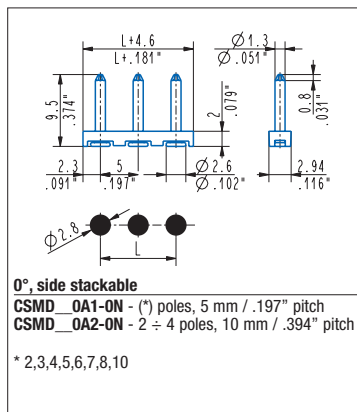
**UL (n. E167473)**  
 300 V - 12 A for 5 mm pitch  
 600 V - 12 A for 10 mm pitch

**Data according to**

**IEC EN61984**  
 300 V - 11 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 for 5 mm pitch  
 1000 V - 11 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 for 10 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



Usable with:

**CXF**

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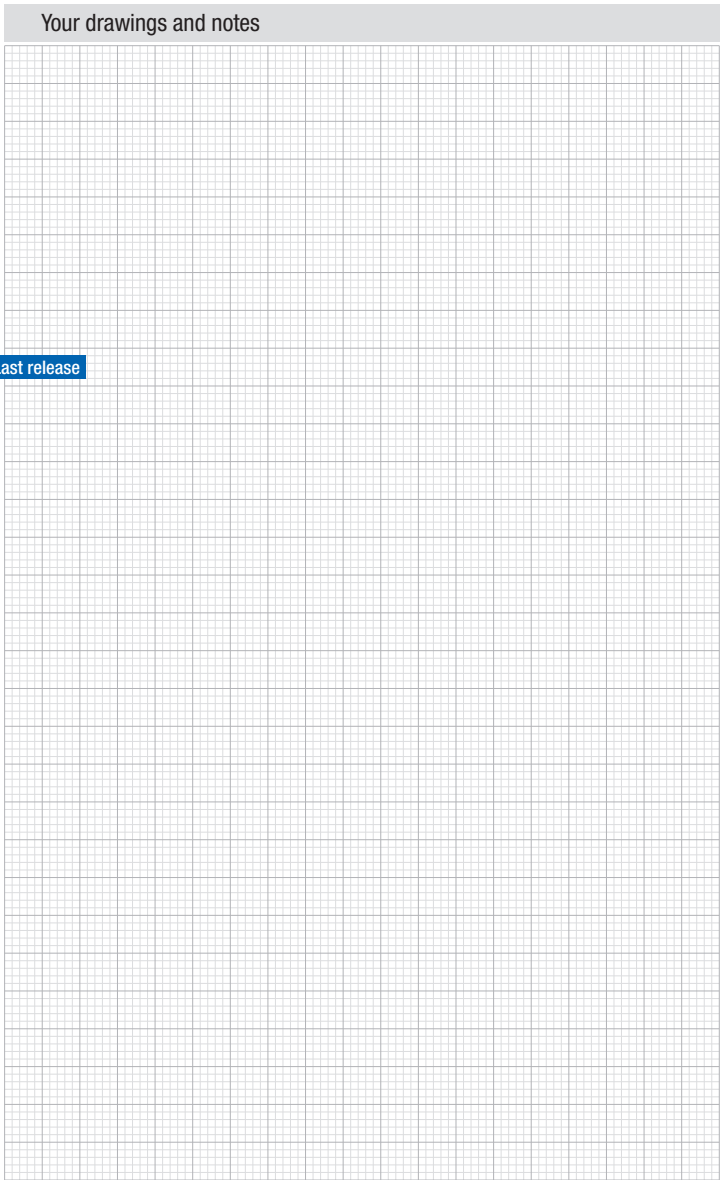
**CSF**

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Last release



### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 3.5 mm, 7 mm (.138 in, .276 in)
<b>Screw dimension:</b>	M2
<b>Recommended/Highest tightening torque:</b>	0.2/0.25 Nm (1.77/2.27 lbf-in)
<b>Stripping length:</b>	5 ÷ 6 mm (.197 ÷ .236 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

**UL (n. E167473)**  
300 V - 10 A - 30÷16 AWG - 1.77 lbf-in for 3.5 mm and 7 mm pitch

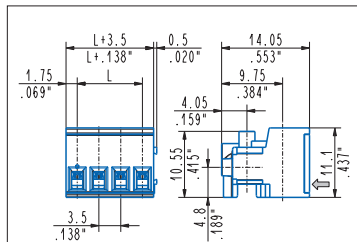
### Data according to

**IEC EN 61984**  
150 V - 10 A - 0.5÷1.5 mm<sup>2</sup> for 3.5 mm pitch  
300 V - 10 A - 0.5÷1.5 mm<sup>2</sup> for 7 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

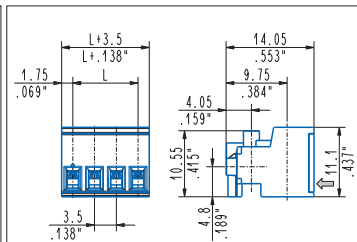
A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"



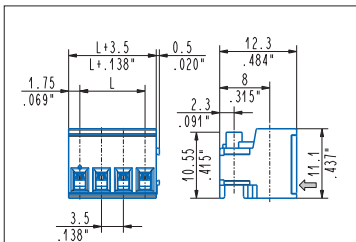
#### Flexible use, modular

**CLF\_008** - 2 ÷ 22 poles, 3.5 mm / .138" pitch  
**CLF\_009** - 1 ÷ 11 poles, 7 mm / .276" pitch



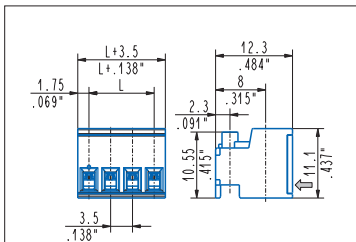
#### Flexible use, side stackable

**CLF\_008** - 2 ÷ 22 poles, 3.5 mm / .138" pitch  
**CLF\_009** - 2 ÷ 11 poles, 7 mm / .276" pitch



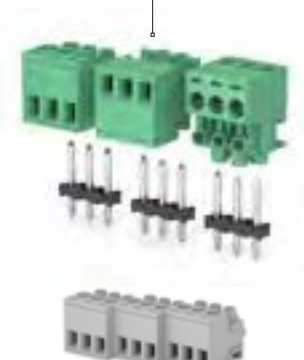
#### 90° and 270°, modular

**CLF\_0W8** - 2 ÷ 22 poles, 3.5 mm / .138" pitch  
**CLF\_0W9** - 1 ÷ 11 poles, 7 mm / .276" pitch



#### 90° and 270°, side stackable

**CLF\_098** - 2 ÷ 22 poles, 3.5 mm / .138" pitch  
**CLF\_099** - 2 ÷ 11 poles, 7 mm / .276" pitch



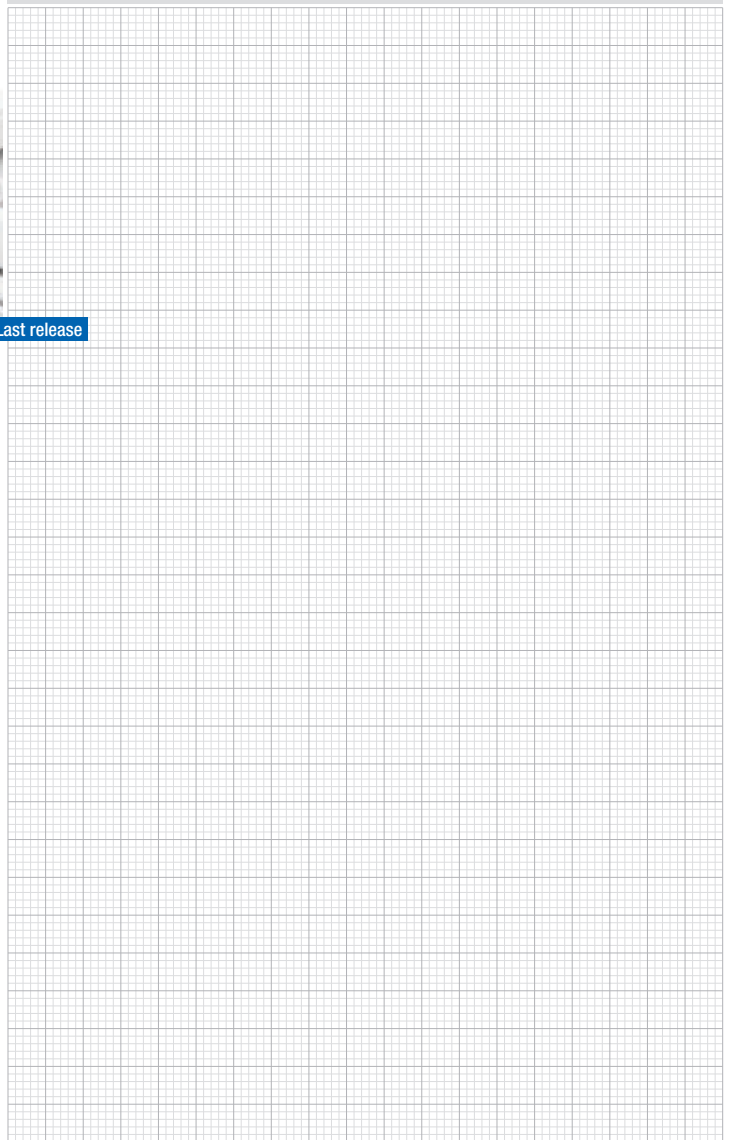
Usable with:

**CLMH\_S**

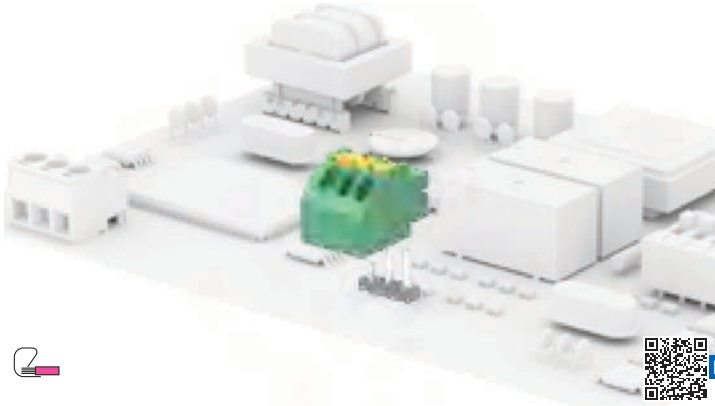
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### Your drawings and notes



Last release



#### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 3.5 mm, 7 mm (.138 in, .276 in)
<b>Stripping length:</b>	8.5 ÷ 10 mm (.335 ÷ .394 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

#### Certifications

##### UL (n. E167473)

150 V - 2 A - 24÷16 AWG for 3.5 mm pitch  
300 V - 2 A - 24÷16 AWG for 7 mm pitch

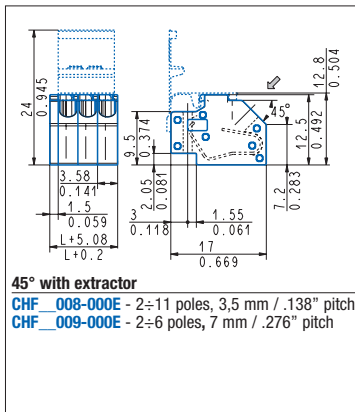
#### Data according to

##### IEC EN 61984

150 V - 4 A - 0.5÷1.5 mm<sup>2</sup> for 3.5 mm pitch  
300 V - 4 A - 0.5÷1.5 mm<sup>2</sup> for 7 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



#### Usable with:

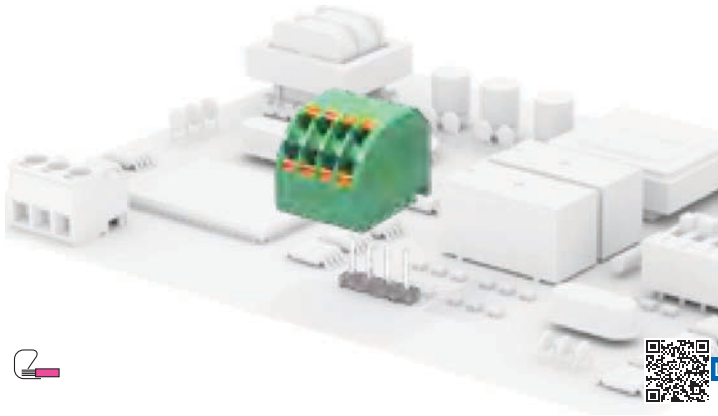
**CLMH\_\_0L**

**CLMH\_\_0A**

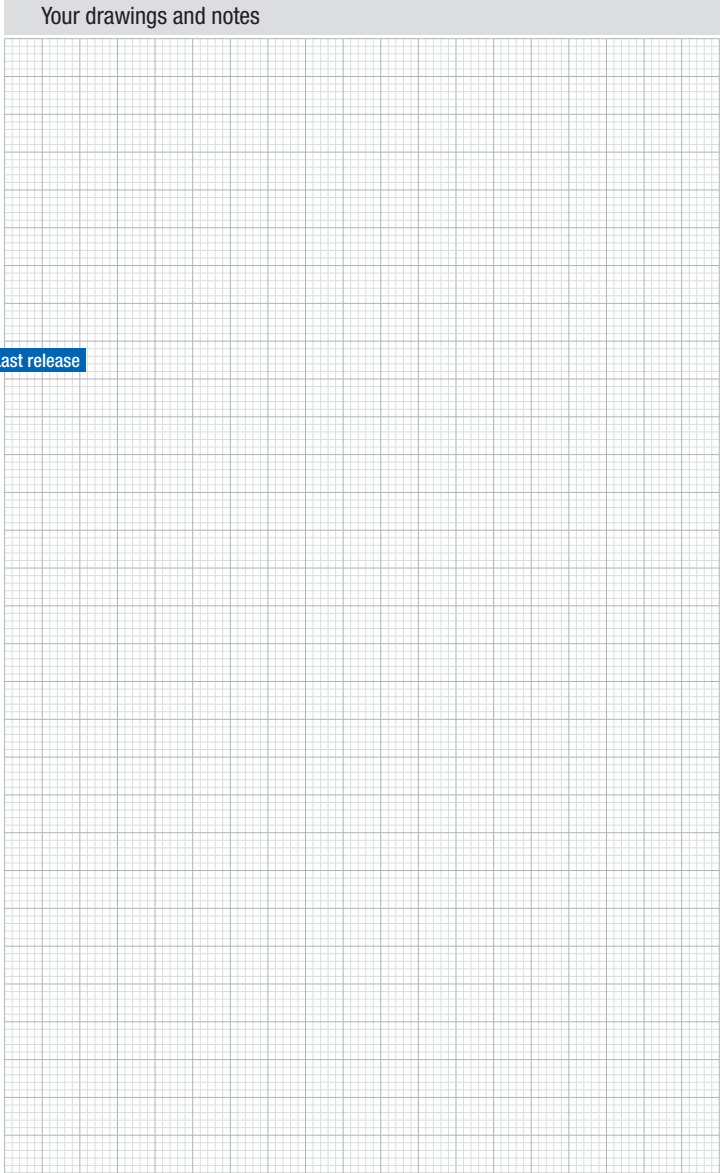
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Last release



**General data**

**Dimensional class:** low  
**Standard colour:** green  
**Pitches:** metric 3.5 mm, 7 mm (.138 in, .276 in)  
**Stripping length:** 10 mm (.394 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

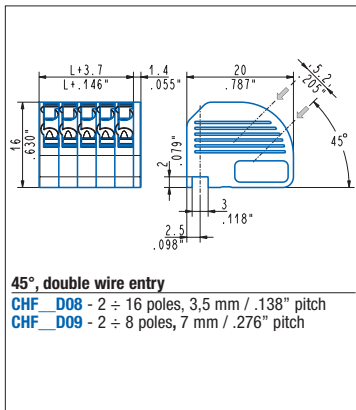
**Data according to**

**UL 1059**  
 150 V - 8 A - 24±16 AWG for 3.5 mm pitch  
 300 V - 8 A - 24±16 AWG for 7 mm pitch

**IEC EN 61984**  
 150 V - 8 A - 0.5±1.5 mm<sup>2</sup> for 3.5 mm pitch  
 300 V - 8 A - 0.5±1.5 mm<sup>2</sup> for 7 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



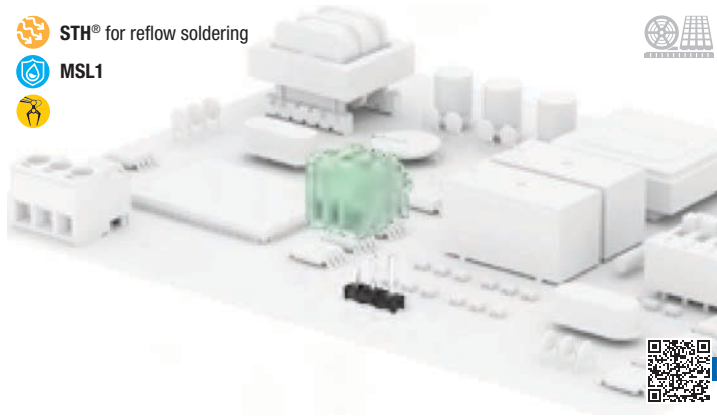
Usable with:

**CLMH\_S**

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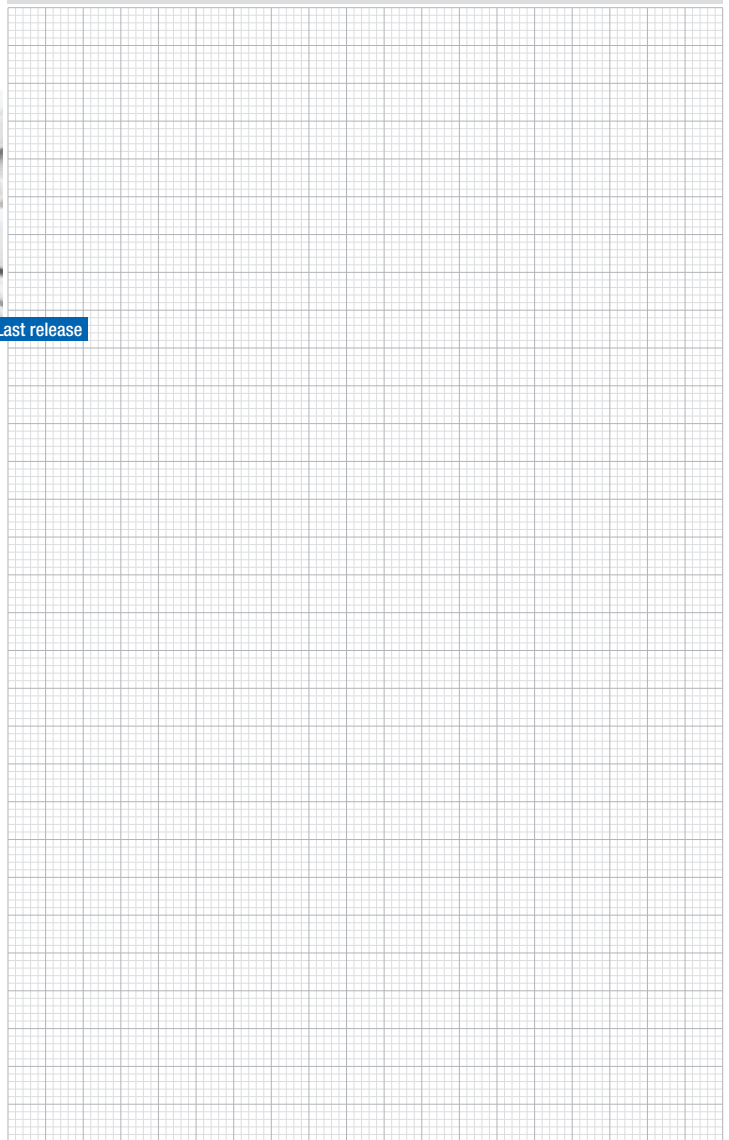


- STH<sup>®</sup>** for reflow soldering
- MSL1**
- 



Last release

### Your drawings and notes



#### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black for reflow soldering
<b>Pitches:</b>	metric 3.5 mm, 7 mm (.138 in, .276 in)
<b>Operating temperature range</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

#### Certifications

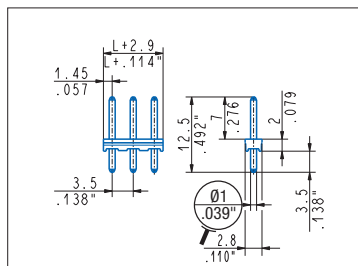
- UL (n. E167473)**  
 150 V - 2 A - for 3.5 mm "0" version  
 300 V - 2 A - for 7 mm "0" version  
 300 V - 10 A - for 3.5 mm and 7 mm for "S" version

#### Data according to

- IEC EN 61984**  
 150 V - 4 A - T110 - 1.5 mm<sup>2</sup> for 3.5 mm  
 300 V - 4 A - T110 - 1.5 mm<sup>2</sup> for 7 mm

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

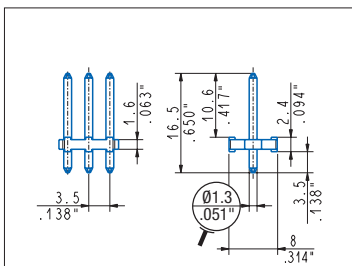
Please see "CONNECTORS COMBINATIONS"



**0°, side stackable**

- CLMH\_SA8-ON** - 2,3,4,9 poles, 3,5 mm / .138" pitch
- CLMH\_SA9-ON** - 2,5 poles, 7 mm / .276" pitch

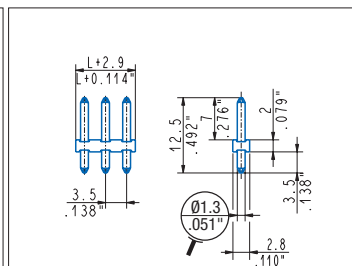
Usable with **CLF** and **CHF DOUBLE** series



**0°, side stackable with large base**

- CLMH\_OL8-ON** - 2 ÷ 8 poles, 3,5 mm / .138" pitch
- CLMH\_OL9-ON** - 2 ÷ 4 poles, 7 mm / .276" pitch

Usable with **CHF**



**0°, side stackable**

- CLMH\_OA8-ON** - 2 ÷ 8 poles, 3,5 mm / .138" pitch
- CLMH\_OA9-ON** - 2 ÷ 4 poles, 7 mm / .276" pitch

Usable with **CHF**



Usable with:

**CLF**

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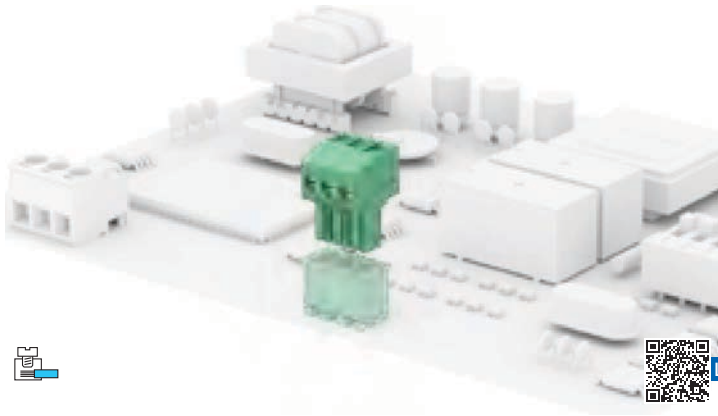
**CHF**

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**CHF double**

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Last release

### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 3.5, 5, 7, 10 mm (.138, .197, .275, .394 in) imperial 3.81, 5.08, 7.62, 10.16 mm (.150, .200, .300, .400 in)
<b>Screw dimension:</b>	M2
<b>Recommended/highest tightening torque:</b>	0.2/0.25 Nm (1.77/2.21 lbf-in)
<b>Stripping length:</b>	5 ÷ 6 mm (.20 ÷ .24 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 11 A - 30÷14 AWG - 2.7 lbf-in for 3.5 mm, 3.81 mm, 5 mm, 5.08 mm, 7 mm, 7.62 mm pitch  
600 V - 11 A - 30÷14 AWG - 2.7 lbf-in for 10 mm, 10.16 mm pitch

#### VDE (n. 40013398)

130 V - 11A - 1 mm<sup>2</sup> - T85 - 1,5kV - III/2 for 3.5 mm and 3.81 mm pitch  
250 V - 11A - 1 mm<sup>2</sup> - T85 - 2,5kV - III/2 for 5 mm and 5.08 mm pitch  
450 V - 11A - 1 mm<sup>2</sup> - T85 - 4kV - III/2 for 7 mm and 7.62 mm pitch

#### IMQ (n. CA02.00901)

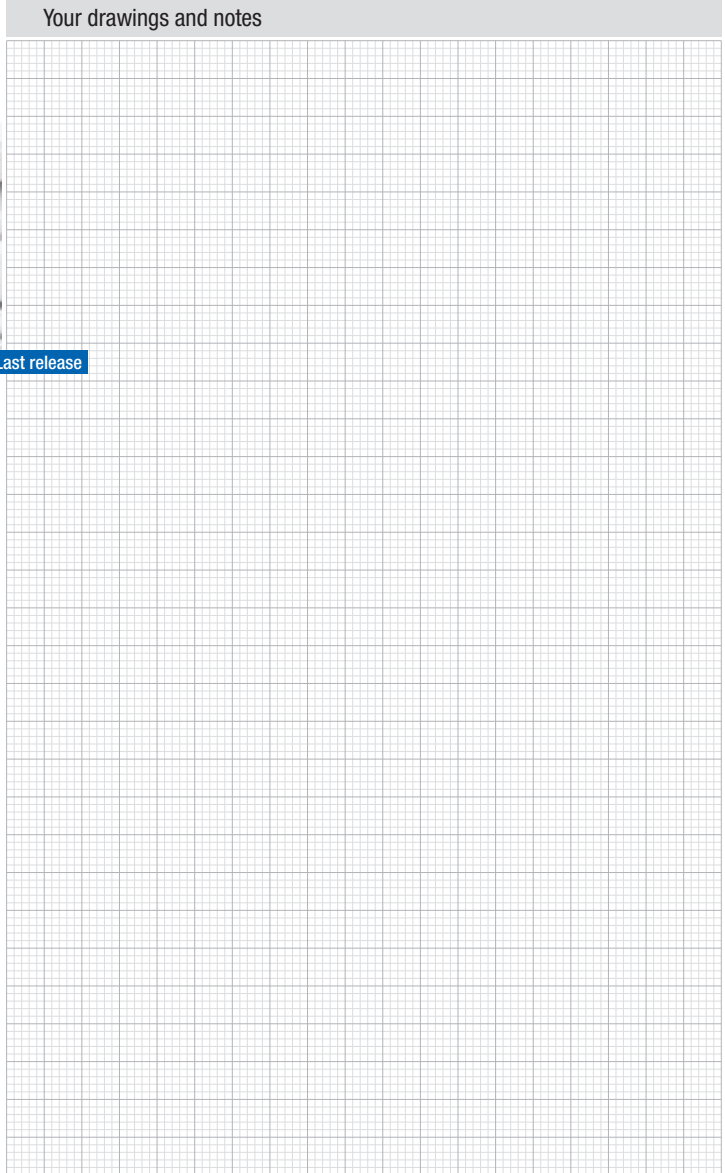
150 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 2,5kV - III/3 / 300 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 2,5kV - II/2 for 3.5, 3.81 mm pitch  
300 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 4kV - III/3 / 600 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 4kV - II/2 for 5, 5.08 mm pitch  
400 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 6kV - III/3 / 1000 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 6kV - II/2 for 7, 7.62 mm pitch  
630 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 8kV - III/3 / 1000 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 8kV - II/2 for 10, 10.16 mm pitch

#### CSA (n. LR102896)

300 V - 11 A - 30÷16 AWG - 2.7 lbf-in for 3.5 mm, 3.81 mm, 7 mm and 7.62 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it.  
The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



**Side stackable**

- CTF\_008 - 2 ÷ 25 poles, 3.5 mm / .138" pitch
- CTF\_001 - 2 ÷ 18 poles, 5 mm / .197" pitch
- CTF\_009 - 2 ÷ 13 poles, 7 mm / .276" pitch
- CTF\_002 - 2 ÷ 9 poles, 10 mm / .394" pitch
- CTF\_00T - 2 ÷ 25 poles, 3.81 mm / .150" pitch
- CTF\_005 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- CTF\_007 - 2 ÷ 13 poles, 7.62 mm / .300" pitch
- CTF\_006 - 2 poles, 10.16 mm / .400" pitch

**Locking screw flanges**

- CTF\_OV8 - 2 ÷ 23 poles, 3.5 mm / .138" pitch
- CTF\_OV1 - 2 ÷ 18 poles, 5 mm / .197" pitch
- CTF\_OV9 - 2 ÷ 12 poles, 7 mm / .276" pitch
- CTF\_OV2 - 2 ÷ 9 poles, 10 mm / .394" pitch
- CTF\_OVT - 2 ÷ 23 poles, 3.81 mm / .150" pitch
- CTF\_OV7 - 2 ÷ 12 poles, 7.62 mm / .300" pitch
- CTF\_OV6 - 2 ÷ 4 poles, 10.16 mm / .400" pitch

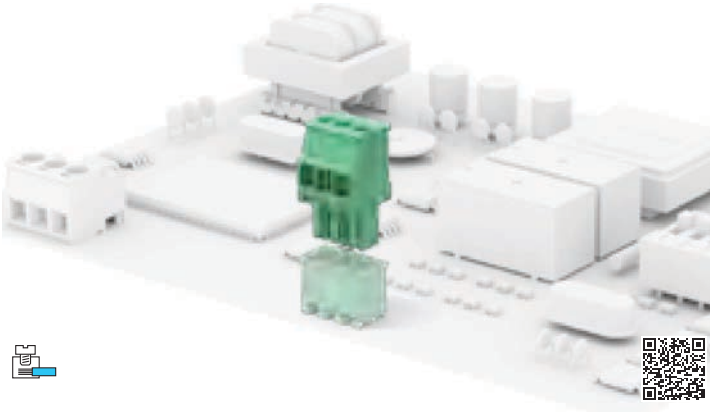


### Usable with:

<b>CTM</b>	<b>CTMH</b>	<b>CTM/CTMH D.</b>	<b>CKF-SC1</b>
Page 59	Page 60	Page 62	Page 80

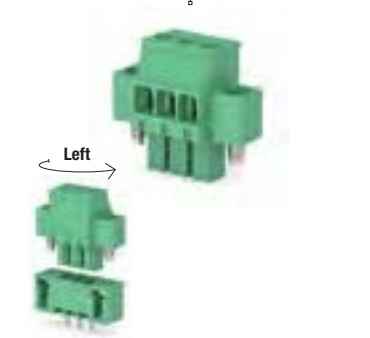
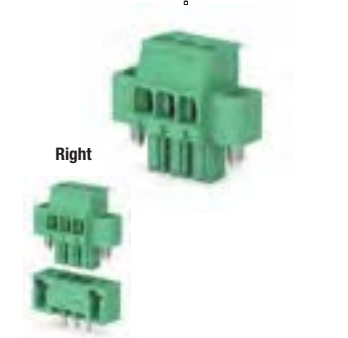






**Right with locking screw flanges**  
**CKF\_0D8** - 2 ÷ 23 poles, 3,5 mm / .138" pitch  
**CKF\_0D9** - 2 ÷ 12 poles, 7 mm / .276" pitch  
**CKF\_0DT** - 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CKF\_0DT** - 2 ÷ 8 poles, 7,62 mm / .300" pitch

**Left with locking screw flanges**  
**CKF\_0S8** - 2 ÷ 23 poles, 3,5 mm / .138" pitch  
**CKF\_0S9** - 2 ÷ 12 poles, 7 mm / .276" pitch  
**CKF\_0ST** - 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CKF\_0S7** - 2 ÷ 8 poles, 7,62 mm / .300" pitch



**General data**

<b>Dimensional class:</b>	Low
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 3.5 mm, 7 mm (.138 in, .276 in) imperial 3.81 mm, 7.62 mm (.150 in, .300 in)
<b>Screw dimension:</b>	M2
<b>Recommended/Highest tightening torque:</b>	0.2/0.25 Nm (1.77/2.21 lbf-in)
<b>Stripping length:</b>	5 ÷ 6 mm (.20 ÷ .24 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**  
 300 V - 10 A - 30÷14 AWG - 2.7 lbf-in for 3.5 mm, 3.81 mm, 7 mm and 7.62 mm pitch

**IMQ (n. CA02.00901)**  
 150 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 2.5kV - III/3 / 300 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 2.5kV - II/2 for 3.5, 3.81 mm pitch  
 400 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 6kV - III/3 / 1000 V - 11 A - 1.5 mm<sup>2</sup> - T110 - 6kV - II/2 for 7, 7.62 mm pitch

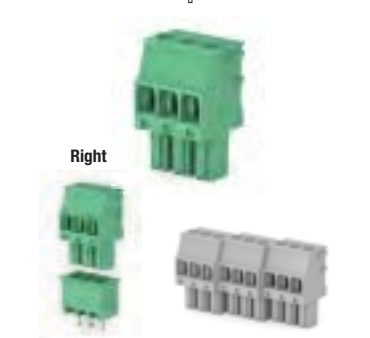
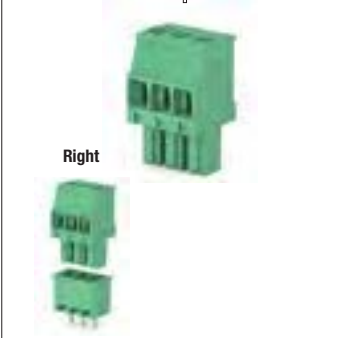
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"

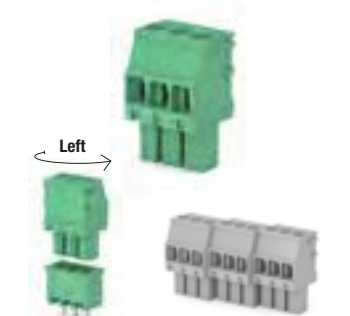
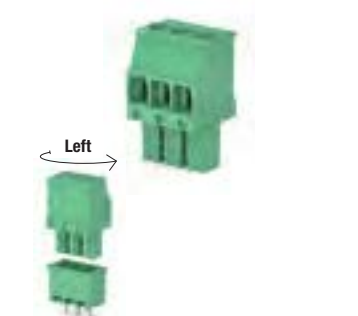
**Right side stackable**  
**CKF\_0R8** - 2 ÷ 25 poles, 3,5 mm / .138" pitch  
**CKF\_0R9** - 2 ÷ 13 poles, 7 mm / .276" pitch  
**CKF\_0RT** - 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CKF\_0RT** - 2 ÷ 8 poles, 7,62 mm / .300" pitch

**Right modular**  
**CKF\_0M8** - 2 ÷ 25 poles, 3,5 mm / .138" pitch  
**CKF\_0M9** - 1 ÷ 13 poles, 7 mm / .276" pitch  
**CKF\_0MT** - 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CKF\_0MT** - 1 ÷ 8 poles, 7,62 mm / .300" pitch



**Left side stackable**  
**CKF\_0L8** - 2 ÷ 25 poles, 3,5 mm / .138" pitch  
**CKF\_0L9** - 2 ÷ 13 poles, 7 mm / .276" pitch  
**CKF\_0LT** - 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CKF\_0L7** - 2 ÷ 8 poles, 7,62 mm / .300" pitch

**Left modular**  
**CKF\_0W8** - 2 ÷ 25 poles, 3,5 mm / .138" pitch  
**CKF\_0W9** - 1 ÷ 13 poles, 7 mm / .276" pitch  
**CKF\_0WT** - 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CKF\_0W7** - 1 ÷ 8 poles, 7,62 mm / .300" pitch



**Usable with:**

<b>CTM</b>	<b>CTMH</b>	<b>CTM/CTMH D.</b>	<b>CKF-SC1</b>
Page 59	Page 60	Page 62	Page 80



Your drawings and notes



Last release

**Functional characteristics**

**Dimensional class:** low  
**Standard colour:** green  
**Pitches:** metric 3.5 mm, 7 mm (.138 in, .276 in)  
 imperial 3.81 mm, 7.62 mm (.150 in, .300 in)  
**Stripping length:** 10.5 ÷ 11.5 mm (.41 ÷ .45 in)  
**Operating temperature range:** -40 °C ÷ +65 °C (-40 °F ÷ +149 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

**Certifications**

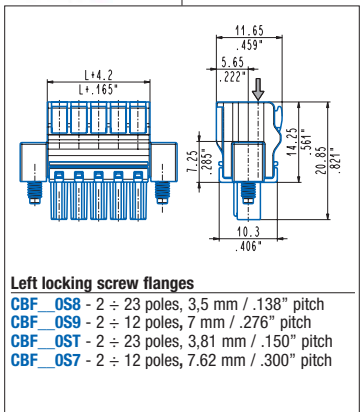
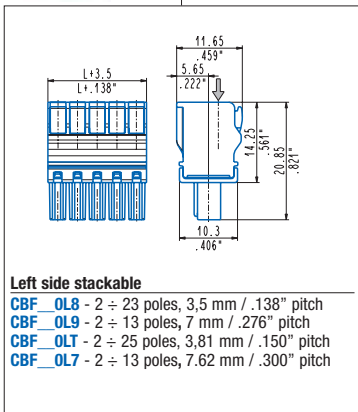
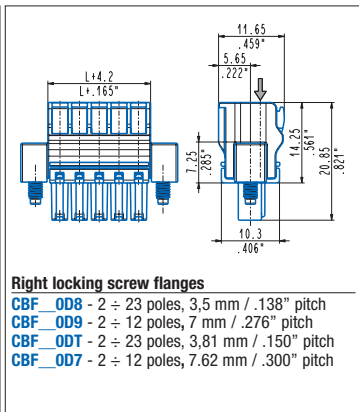
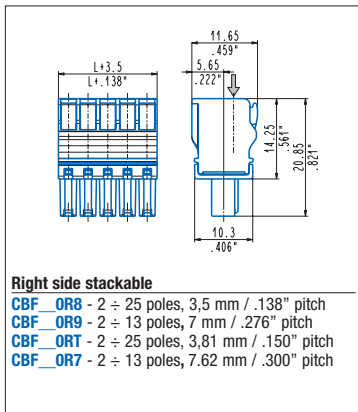
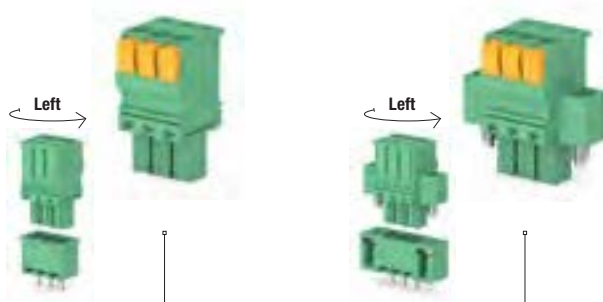
**UL (n. E167473)**  
 300 V - 11 A - 30÷14 AWG stranded (9 A - 30÷14 AWG solid) for 3.5, 3.81, 7, 7.62 mm pitch

**Data according to**

**IEC EN 61984**  
 150 V - 8 A - T110 - 1.5 mm<sup>2</sup> - for 3.5 mm and 3.81 mm pitch  
 300 V - 8 A - T110 - 1.5 mm<sup>2</sup> - for 7 mm and 7.62 mm pitch

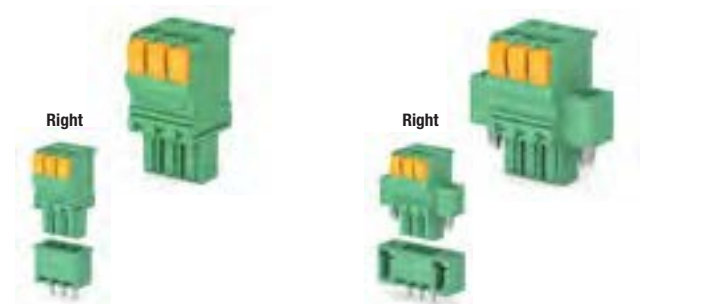
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"

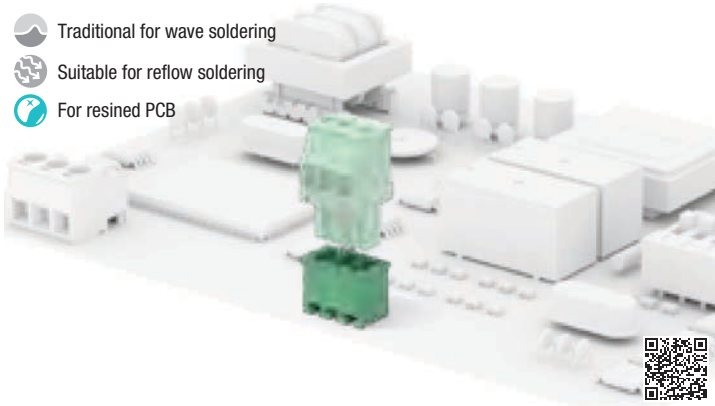


**Usable with:**

<b>CTM</b> Page 59	<b>CTMH</b> Page 60	<b>CTM/CTMH D.</b> Page 62	<b>CKF-SC1</b> Page 80
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- Traditional for wave soldering
- Suitable for reflow soldering
- For resined PCB



**90°, modular**  
**CTM\_9M8** - 2 ÷ 12 poles, 3,5 mm / .138" pitch  
**CTM\_9M1°** - 2 ÷ 22 poles, 5 mm / .197" pitch  
**CTM\_9M9** - 1 ÷ 6 poles, 7 mm / .276" pitch  
**CTM\_9M2°** - 1 ÷ 11 poles, 10 mm / .394" pitch  
**CTM\_9MT** - 2 ÷ 12 poles, 3,81 mm / .150" pitch  
**CTM\_9M5°** - 2 ÷ 3 poles, 5,08 mm / .200" pitch  
**CTM\_9M7** - 1 ÷ 6 poles, 7,62 mm / .300" pitch  
**CTM\_9M6°** - 1 ÷ 2 poles, 10,16 mm / .400" pitch



### General data

**Dimensional class:** low  
**Standard colour:** green  
**Pitches:** metric 3,5, 5, 7, 10 mm (.138, .197, .275, .394 in)  
 imperial 3,81, 5,08, 7,62, 10,16 mm (.150, .200, .300, .400 in)  
**PCB thickness:** max 2,4 mm (.094 in)  
**PCB hole diameter:** min. 1,2 mm (.047 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

### Certifications

**UL (n. E167473)**  
 300 V - 11 A - for 3,5 mm, 3,81 mm, 5 mm, 5,08 mm, 7 mm, 7,62 mm pitch  
 600 V - 11 A - for 10 mm and 10,16 mm pitch

**VDE (n. 40013398)**  
 130 V - 11 A - 1 mm<sup>2</sup> - T 85 - 1,5kV - 2 for 3,5 mm and 3,81 mm pitch  
 250 V - 11 A - 1 mm<sup>2</sup> - T 85 - 2,5kV - 2 for 5 mm and 5,08 mm pitch  
 450 V - 11 A - 1 mm<sup>2</sup> - T 85 - 4kV - 2 for 7 mm and 7,62 mm pitch

### IMQ (n. CA02.00901)

150 V - 11 A - 1,5 mm<sup>2</sup> - T110 - 2,5kV - III/3 / 300 V - 11 A - 1,5 mm<sup>2</sup> - T110 - 2,5kV - II/2 for 3,5, 3,81 mm pitch  
 300 V - 11 A - 1,5 mm<sup>2</sup> - T110 - 4kV - III/3 / 600 V - 11 A - 1,5 mm<sup>2</sup> - T110 - 4kV - II/2 for 5, 5,08 mm pitch  
 400 V - 11 A - 1,5 mm<sup>2</sup> - T110 - 6kV - III/3 / 1000 V - 11 A - 1,5 mm<sup>2</sup> - T110 - 6kV - II/2 for 7, 7,62 mm pitch  
 630 V - 11 A - 1,5 mm<sup>2</sup> - T110 - 8kV - III/3 / 1000 V - 11 A - 1,5 mm<sup>2</sup> - T110 - 8kV - II/2 for 10, 10,16 mm pitch

### CSA (n. LR102896)

300 V - 11 A - for 3,5 mm, 3,81 mm, 7 mm and 7,62 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"

° The product is solderable up to 260 °C

**90°, polarized**  
**CTM\_9P8** - 2 ÷ 12 poles, 3,5 mm / .138" pitch  
**CTM\_9P9** - 2 ÷ 6 poles, 7 mm / .276" pitch  
**CTM\_9PT** - 2 ÷ 12 poles, 3,81 mm / .150" pitch  
**CTM\_9P7** - 2 ÷ 6 poles, 7,62 mm / .300" pitch

**90°, polarized**  
**CTM\_9P8°** 13÷25 poles, 3,5 mm / .138" pitch  
**CTM\_9P9°** 7÷13 poles, 7 mm / .276" pitch  
**CTM\_9PT°** 13÷25 poles, 3,81 mm / .150" pitch  
**CTM\_9P7°** 7÷13 poles, 7,62 mm / .300" pitch  
**CTM\_9P1°** - 2 ÷ 22 poles, 5 mm / .197" pitch  
**CTM\_9P2°** - 2 ÷ 11 poles, 10 mm / .394" pitch  
**CTM\_9P5°** - 2 ÷ 3 poles, 5,08 mm / .200" pitch  
**CTM\_9P6°** - 2 poles, 10,16 mm / .400" pitch

**90°, locking screw flanges**  
**CTM\_9V8** - 2 ÷ 12 poles, 3,5 mm / .138" pitch  
**CTM\_9V1°** - 2 ÷ 22 poles, 5 mm / .197" pitch  
**CTM\_9V9** - 2 ÷ 6 poles, 7 mm / .276" pitch  
**CTM\_9V2°** - 2 ÷ 11 poles, 10 mm / .394" pitch  
**CTM\_9VT** - 2 ÷ 12 poles, 3,81 mm / .150" pitch  
**CTM\_9V7** - 2 ÷ 6 poles, 7,62 mm / .300" pitch

**90°, locking screw flanges**  
**CTM\_9V8°** - 13 ÷ 23 poles, 3,5 mm / .138" pitch  
**CTM\_9V9°** - 7 ÷ 12 poles, 7 mm / .276" pitch  
**CTM\_9VT°** - 13 ÷ 23 poles, 3,81 mm / .150" pitch  
**CTM\_9V7°** - 7 ÷ 12 poles, 7,62 mm / .300" pitch

**0°, modular**  
**CTM\_0M8** - 2 ÷ 12 poles, 3,5 mm / .138" pitch  
**CTM\_0M1°** - 2 ÷ 22 poles, 5 mm / .197" pitch  
**CTM\_0M9** - 1 ÷ 6 poles, 7 mm / .276" pitch  
**CTM\_0M2°** - 1 ÷ 11 poles, 10 mm / .394" pitch  
**CTM\_0MT** - 2 ÷ 12 poles, 3,81 mm / .150" pitch  
**CTM\_0M5°** - 2 ÷ 3 poles, 5,08 mm / .200" pitch  
**CTM\_0M7** - 1 ÷ 6 poles, 7,62 mm / .300" pitch  
**CTM\_0M6°** - 1 ÷ 2 poles, 10,16 mm / .400" pitch



**0°, locking screw flanges**  
**CTM\_0V8** - 2 ÷ 12 poles, 3,5 mm / .138" pitch  
**CTM\_0V1°** - 2 ÷ 22 poles, 5 mm / .197" pitch  
**CTM\_0V9** - 2 ÷ 6 poles, 7 mm / .276" pitch  
**CTM\_0V2°** - 2 ÷ 11 poles, 10 mm / .394" pitch  
**CTM\_0VT** - 2 ÷ 12 poles, 3,81 mm / .150" pitch  
**CTM\_0V7** - 2 ÷ 6 poles, 7,62 mm / .300" pitch

**0°, locking screw flanges**  
**CTM\_0V8°** - 13 ÷ 23 poles, 3,5 mm / .138" pitch  
**CTM\_0V9°** - 7 ÷ 12 poles, 7 mm / .276" pitch  
**CTM\_0VT°** - 13 ÷ 23 poles, 3,81 mm / .150" pitch  
**CTM\_0V7°** - 7 ÷ 12 poles, 7,62 mm / .300" pitch

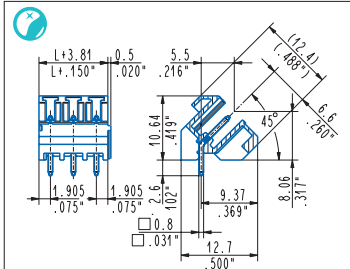
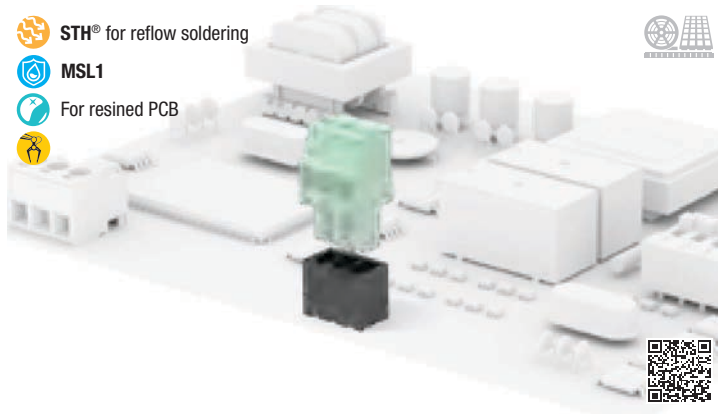
**0°, polarized**  
**CTM\_0P8** - 2 ÷ 12 poles, 3,5 mm / .138" pitch  
**CTM\_0P9** - 2 ÷ 6 poles, 7 mm / .276" pitch  
**CTM\_0PT** - 2 ÷ 12 poles, 3,81 mm / .150" pitch  
**CTM\_0P7** - 2 ÷ 6 poles, 7,62 mm / .300" pitch

**0°, polarized**  
**CTM\_0P8°** - 13 ÷ 25 poles, 3,5 mm / .138" pitch  
**CTM\_0P9°** - 7 ÷ 13 poles, 7 mm / .276" pitch  
**CTM\_0PT°** - 13 ÷ 25 poles, 3,81 mm / .150" pitch  
**CTM\_0P7°** - 7 ÷ 13 poles, 7,62 mm / .300" pitch  
**CTM\_0P1°** - 2 ÷ 22 poles, 5 mm / .197" pitch  
**CTM\_0P2°** - 2 ÷ 11 poles, 10 mm / .394" pitch  
**CTM\_0P5°** - 2 ÷ 3 poles, 5,08 mm / .200" pitch  
**CTM\_0P6°** - 2 poles, 10,16 mm / .400" pitch

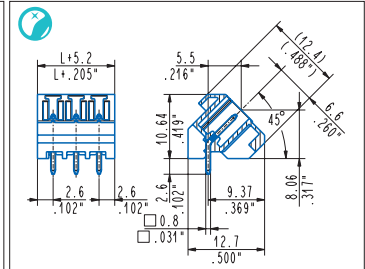
**Usable with:**

CTF	CKF	CBF	CTM-LC1	CIF-LC1
Page 56	Page 57	Page 58	Page 80	

- STH<sup>®</sup>** for reflow soldering
- MSL1**
- For resined PCB
- 



**45°, modular**  
**CTMH\_4MT-ON** 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CTMH\_4MT-ON** 1 ÷ 8 poles, 7,62 mm / .300" pitch



**45°, polarized**  
**CTMH\_4PT-ON** 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CTMH\_4PT-ON** 2 ÷ 8 poles, 7,62 mm / .300" pitch

### General data

<b>Dimensional class:</b>	low
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 3.5, 5, 7, 10 mm (.138, .197, .275, .394 in) imperial 3.81, 5.08, 7.62, 10.16 mm (.150, .200, .300, .400 in)
<b>PCB thickness:</b>	max 2,4 mm (.094 in)
<b>PCB hole diameter:</b>	1,4 mm (.055 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

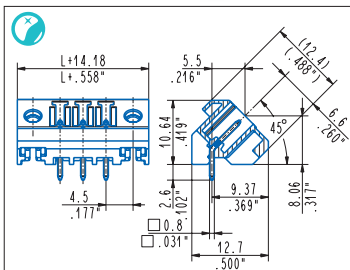
**UL (n. E167473)**  
 300 V - 11 A - for 3.5 mm, 3.81 mm, 5 mm, 5.08 mm, 7 mm, 7.62 mm pitch  
 600 V - 11 A - for 10 mm and 10.16 mm pitch

**VDE (n. 40013398)**  
 130 V - 11 A - 1 mm<sup>2</sup> - T 85 - 1,5kV - 2 for 3.5 mm and 3.81 mm pitch  
 250 V - 11 A - 1 mm<sup>2</sup> - T 85 - 2,5kV - 2 for 5 mm and 5.08 mm pitch  
 450 V - 11 A - 1 mm<sup>2</sup> - T 85 - 4kV - 2 for 7 mm and 7.62 mm pitch

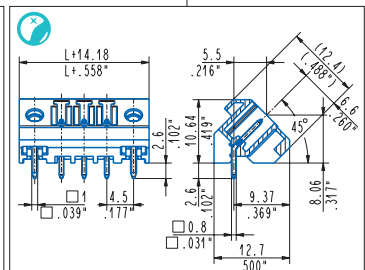
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

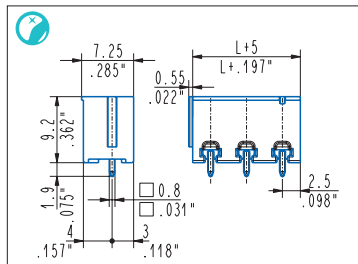
Please see "CONNECTORS COMBINATIONS"



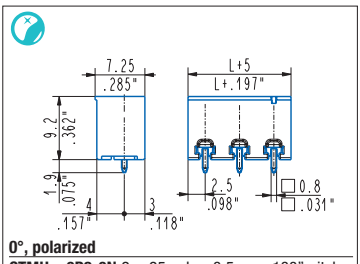
**45°, locking screw flanges**  
**CTMH\_4VT-ON** 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CTMH\_4VT-ON** 2 ÷ 8 poles, 7,62 mm / .300" pitch



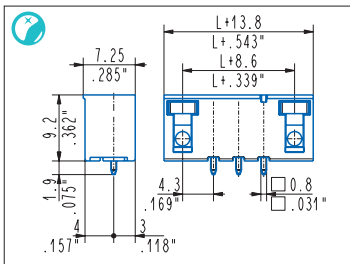
**45°, locking screw flanges & fake pin**  
**CTMH\_4FT-ON** 2 ÷ 16 poles, 3,81 mm / .150" pitch  
**CTMH\_4FT-ON** 2 ÷ 8 poles, 7,62 mm / .300" pitch



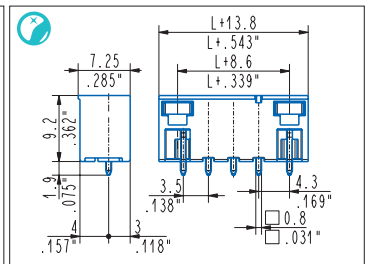
**0°, modular**  
**CTMH\_OM1-ON** 2 ÷ 22 poles, 5 mm .197" pitch  
**CTMH\_OM2-ON** 1 ÷ 11 poles, 10 mm .394" pitch  
**CTMH\_OM5-ON** 2 ÷ 3 poles, 5,08 mm .200" pitch  
**CTMH\_OM6-ON** 1 poles, 10,16 mm .400" pitch



**0°, polarized**  
**CTMH\_OP8-ON** 2 ÷ 25 poles, 3,5 mm .138" pitch  
**CTMH\_OP1-ON** 2 ÷ 22 poles, 5 mm .197" pitch  
**CTMH\_OP9-ON** 2 ÷ 13 poles, 7 mm .276" pitch  
**CTMH\_OP2-ON** 2 ÷ 11 poles, 10 mm .394" pitch  
**CTMH\_OPT-ON** 2 ÷ 25 poles, 3,81 mm .150" pitch  
**CTMH\_OP5-ON** 2 ÷ 3 poles, 5,08 mm .200" pitch  
**CTMH\_OP7-ON** 2 ÷ 13 poles, 7,62 mm .300" pitch  
**CTMH\_OP6-ON** 2 poles, 10,16 mm / .400" pitch



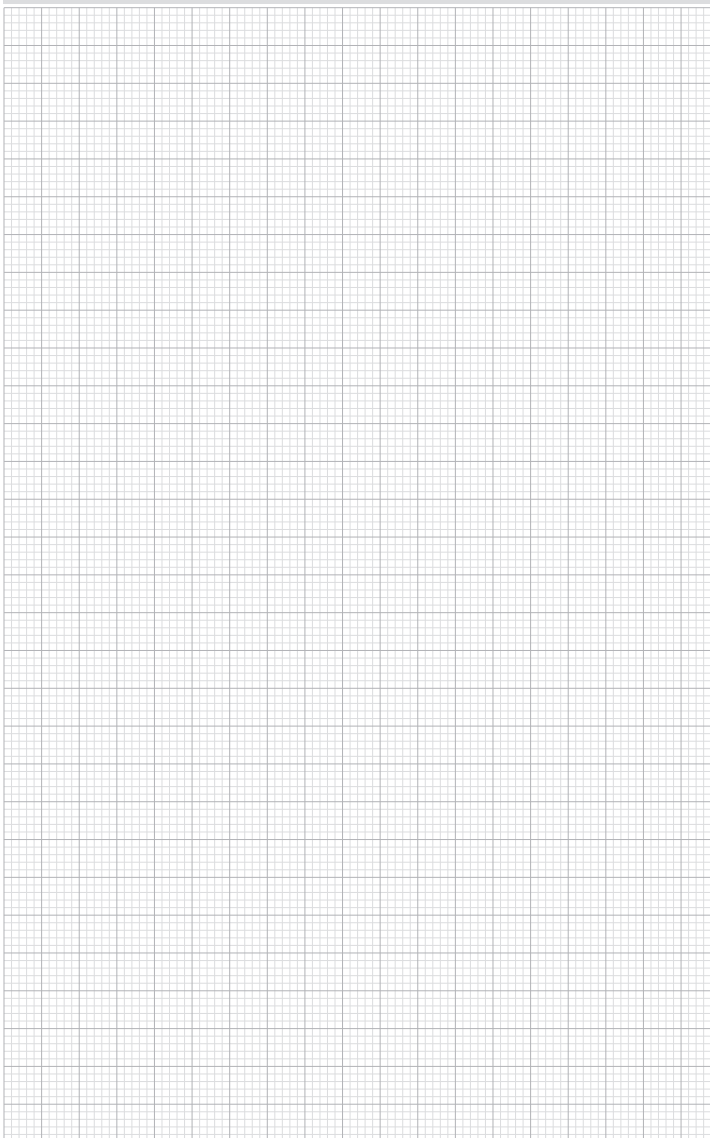
**0°, locking screw flanges**  
**CTMH\_OV8-ON** 2 ÷ 23 poles, 3,5 mm .138" pitch  
**CTMH\_OV1-ON** 2 ÷ 22 poles, 5 mm .197" pitch  
**CTMH\_OV9-ON** 2 ÷ 12 poles, 7 mm .276" pitch  
**CTMH\_OV2-ON** 2 ÷ 11 poles, 10 mm .394" pitch  
**CTMH\_OVT-ON** 2 ÷ 22 poles, 3,81 mm .150" pitch  
**CTMH\_OV7-ON** 2 ÷ 12 poles, 7,62 mm .300" pitch



**0°, locking screw flanges & fake pin**  
**CTMH\_OF8-ON** 2 ÷ 23 poles, 3,5 mm .138" pitch  
**CTMH\_OF1-ON** 2 ÷ 22 poles, 5 mm .197" pitch  
**CTMH\_OF9-ON** 2 ÷ 12 poles, 7 mm .276" pitch  
**CTMH\_OF2-ON** 2 ÷ 11 poles, 10 mm .394" pitch  
**CTMH\_OFT-ON** 2 ÷ 22 poles, 3,81 mm .150" pitch  
**CTMH\_OF7-ON** 2 ÷ 12 poles, 7,62 mm .300" pitch



Your drawings and notes



**90°, modular**  
**CTMH\_9M1-ON** 2÷22 poles, 5 mm / .197" pitch  
**CTMH\_9M2-ON** 1÷11 poles, 10 mm / .394" pitch  
**CTMH\_9M5-ON** 2÷3 poles, 5,08 mm / .200" pitch  
**CTMH\_9M6-ON** 1÷2 poles, 10,16 mm / .400" pitch

**90°, polarized**  
**CTMH\_9P8-ON** 2 ÷ 25 poles, 3,5 mm .138" pitch  
**CTMH\_9P1-ON** 2 ÷ 22 poles, 5 mm .197" pitch  
**CTMH\_9P9-ON** 2 ÷ 13 poles, 7 mm .276" pitch  
**CTMH\_9P2-ON** 2 ÷ 11 poles, 10 mm .394" pitch  
**CTMH\_9PT-ON** 2 ÷ 25 poles, 3,81 mm .150" pitch  
**CTMH\_9P5-ON** 2 ÷ 3 poles, 5,08 mm .200" pitch  
**CTMH\_9P7-ON** 2 ÷ 13 poles, 7,62 mm .300" pitch  
**CTMH\_9P6-ON** 2 poles, 10,16 mm / .400" pitch



**90°, locking screw flanges**  
**CTMH\_9V8-ON** 2 ÷ 23 poles, 3,5 mm .138" pitch  
**CTMH\_9V1-ON** 2 ÷ 22 poles, 5 mm .197" pitch  
**CTMH\_9V9-ON** 2 ÷ 12 poles, 7 mm .276" pitch  
**CTMH\_9V2-ON** 2 ÷ 11 poles, 10 mm .394" pitch  
**CTMH\_9VT-ON** 2 ÷ 22 poles, 3,81 mm .150" pitch  
**CTMH\_9V7-ON** 2 ÷ 12 poles, 7,62 mm .300" pitch

**90°, locking screw flanges & fake pin**  
**CTMH\_9F8-ON** 2 ÷ 23 poles, 3,5 mm .138" pitch  
**CTMH\_9F1-ON** 2 ÷ 22 poles, 5 mm .197" pitch  
**CTMH\_9F9-ON** 2 ÷ 12 poles, 7 mm .276" pitch  
**CTMH\_9F2-ON** 2 ÷ 11 poles, 10 mm .394" pitch  
**CTMH\_9FT-ON** 2 ÷ 22 poles, 3,81 mm .150" pitch  
**CTMH\_9F7-ON** 2 ÷ 12 poles, 7,62 mm .300" pitch

**270°, modular**  
**CTMH\_5M8-ON** 2 ÷ 25 poles, 3,5 mm .138" pitch  
**CTMH\_5M9-ON** 1 ÷ 13 poles, 7 mm .276" pitch  
**CTMH\_5MT-ON** 2 ÷ 25 poles, 3,81 mm .150" pitch  
**CTMH\_5M7-ON** 1 ÷ 13 poles, 7,62 mm .300" pitch

**270°, polarized**  
**CTMH\_5P8-ON** 2 ÷ 25 poles, 3,5 mm .138" pitch  
**CTMH\_5P9-ON** 2 ÷ 13 poles, 7 mm .276" pitch  
**CTMH\_5PT-ON** 2 ÷ 23 poles, 3,81 mm .150" pitch  
**CTMH\_5P7-ON** 2 ÷ 11 poles, 7,62 mm .300" pitch

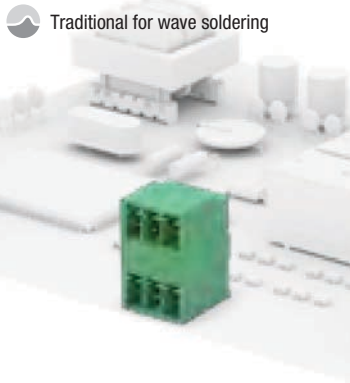
**270°, locking screw flanges**  
**CTMH\_5V8-ON** 2 ÷ 22 poles, 3,5mm / .138" pitch  
**CTMH\_5V9-ON** 2 ÷ 11 poles, 7 mm / .276" pitch  
**CTMH\_5VT-ON** 2 ÷ 22 poles, 3,81 mm / .150" pitch  
**CTMH\_5V7-ON** 2 ÷ 11 poles, 7,62 mm / .300" pitch



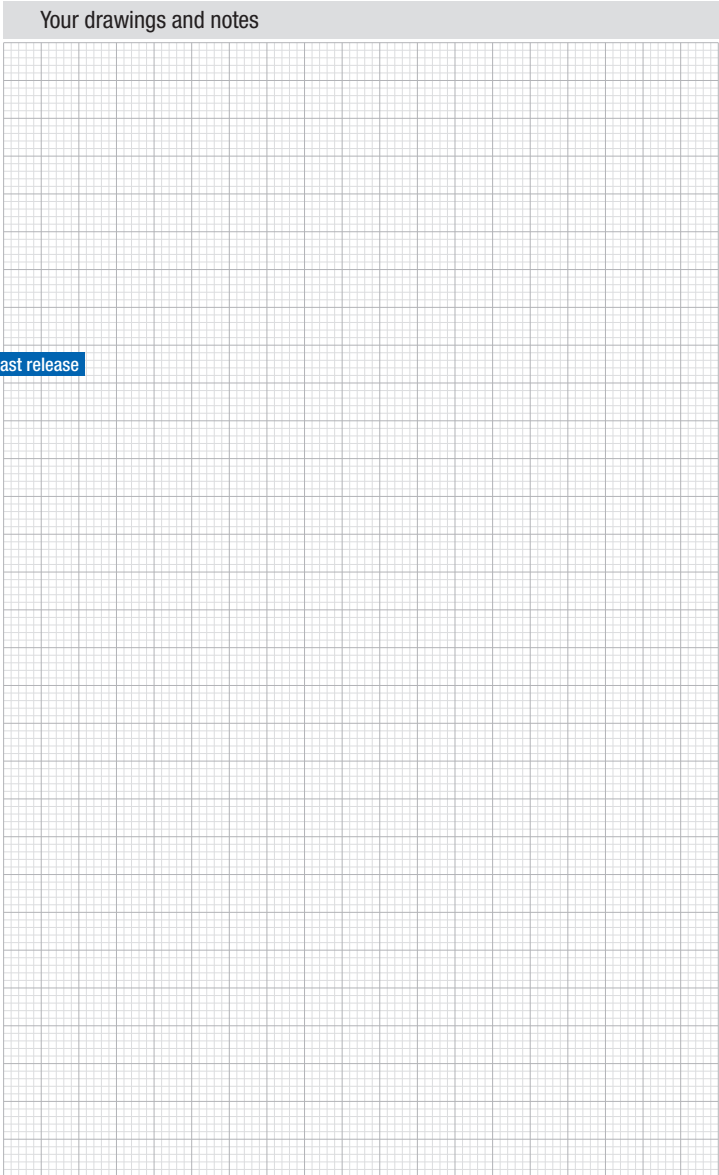
Usable with:

- CTF**  
Page 56
- CKF**  
Page 57
- CBF**  
Page 58





Last release



**General data**

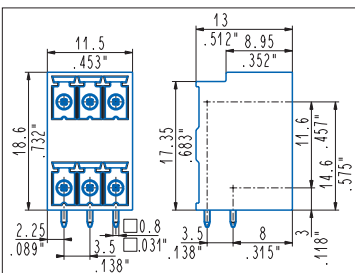
- Dimensional class:** low
- Standard colour:** green for wave soldering, black for reflow soldering
- Pitches:** metric 3.5, 7 mm (.138, .276 in)
- PCB thickness:** max 2,4 mm (.094 in)
- PCB hole diameter:** min. 1.2 mm (.055 in)
- Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
- Contact resistance:** <15 mΩ
- Insulation resistance:** >10<sup>9</sup> Ω (500V DC)
- Insulating material group:** I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**  
300 V - 11 A

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



**90°, double level, polarized**  
**CTM\_PP8** - 2 ÷ 5 poles, 3,5 mm / .138" pitch  
**CTM\_PP9** - 2 ÷ 3 poles, 7 mm / .276" pitch  
**CTMH\_PP8-ON** - 2 ÷ 5 poles, 3,5 mm / .138" pitch  
**CTMH\_PP9-ON** - 2 ÷ 3 poles, 7 mm / .276" pitch



Usable with:

**CTF**

Page 56

**CKF**

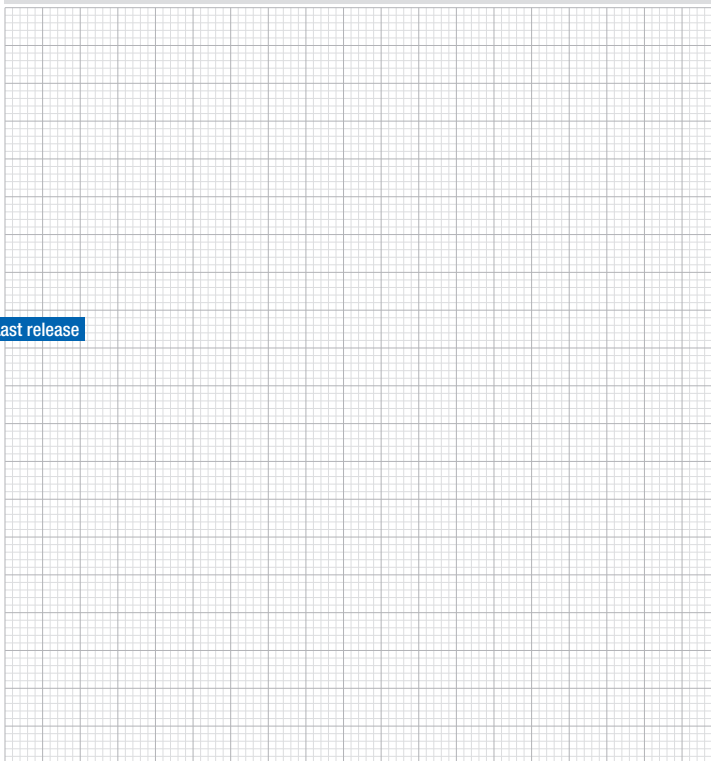
Page 57

**CBF**

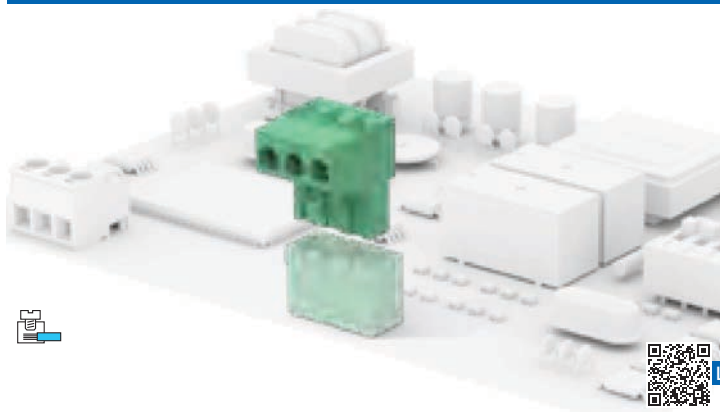
Page 58



Your drawings and notes



Last release



General data

**Dimensional class:** medium  
**Standard colour:** green  
**Pitches:** metric 5, 7.5, 10 mm (.197, .295, .394 in)  
 imperial 5.08, 7.62, 10.16 mm (.200, .300, .400 in)  
**Screw dimension:** M3  
**Recommended/highest tightening torque:** 0.5/0.6 Nm (4.42/5.30 lbf-in)  
**Stripping length:** 6 ÷ 7.5 mm (.24 ÷ .30 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

Certifications

UL (n. E167473)

300 V - 15 A - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
 600 V - 15 A - 30÷12 AWG - 7 lbf-in for 10 mm and 10.16 mm pitch

VDE (n. 40027448)

250 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 2,5kV - 2 for 5 mm and 5.08 mm pitch  
 500 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 4kV - 2 for 7.5 mm and 7.62 mm pitch  
 750 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 6kV - 2 for 10 mm and 10.16 mm pitch

IMQ (n. EM672)

300 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 for 5 mm and 5.08 mm pitch  
 600 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 6kV - III/2 for 7.5 mm and 7.62 mm pitch  
 1000 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 for 10 mm and 10.16 mm pitch

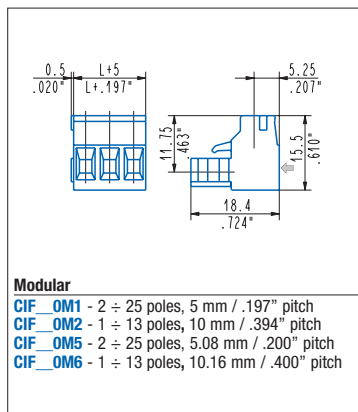
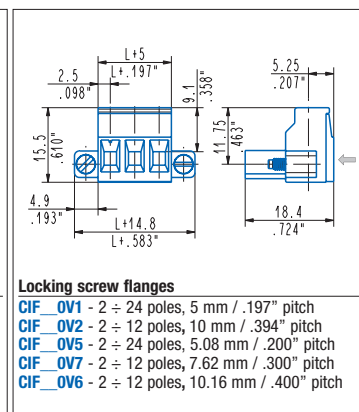
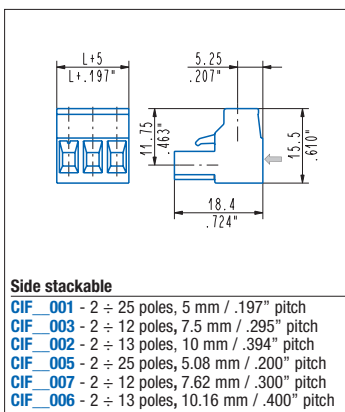
CSA (n. LR102896)

300 V - 15 A - 30÷12 AWG for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
 600 V - 15 A - 30÷12 AWG for 10 mm and 10.16 mm pitch

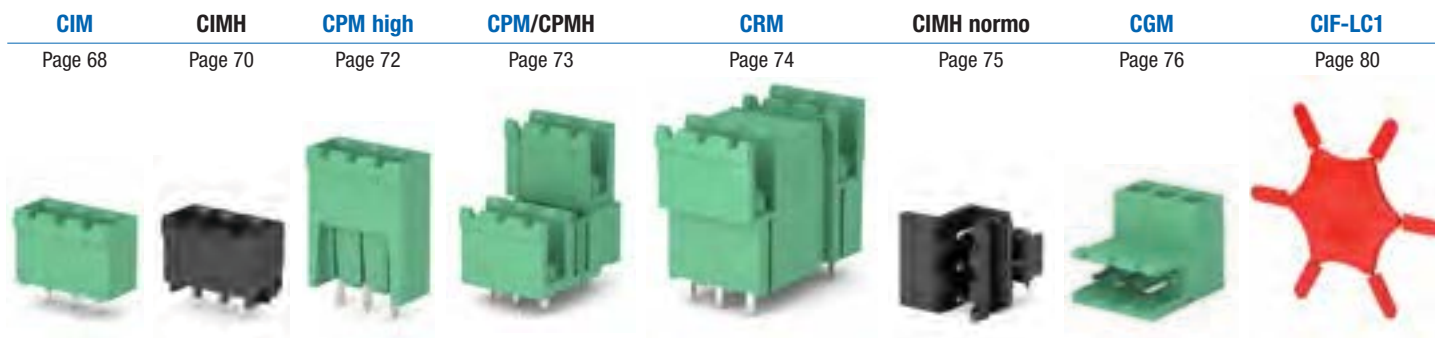
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

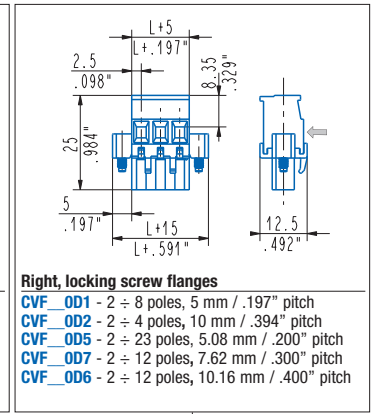
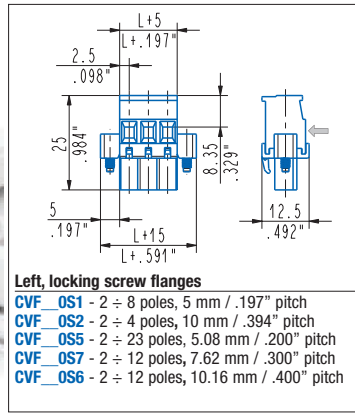
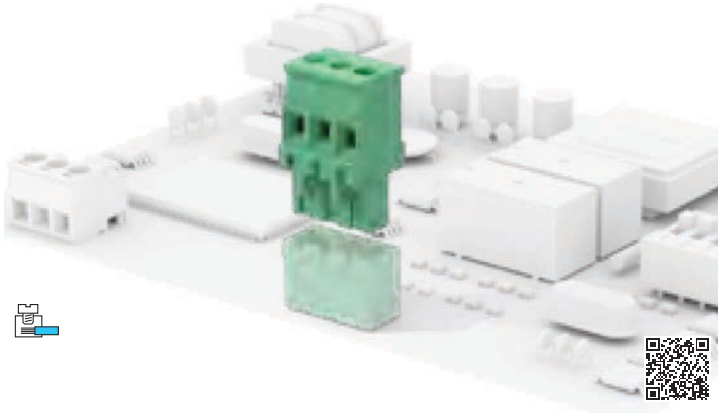
A higher number of poles is obtained by combining together modular parts.

Please see "CONNECTORS COMBINATIONS"



Usable with:





**General data**

**Dimensional class:** medium  
**Standard colour:** green  
**Pitches:** metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in)  
 imperial 5.08, 7.62, 10.16 mm (.200, .300, .400 in)  
**Screw dimension:** M3  
**Recommended/Highest tightening torque:** 0.5/0.6 Nm (4.42/5.3 lbf-in)  
**Stripping length:** 6 ÷ 7.5 mm (.24 ÷ .30 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**  
 300 V - 15 A - 30÷12 AWG - 7lbf-in for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
 600 V - 15 A - 30÷12 AWG - 7lbf-in for 10 mm and 10.16 mm pitch

**VDE (n. 40027448)**  
 250 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 2.5kV - 2 for 5 mm and 5.08 mm pitch  
 500 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 4kV - 2 for 7.5 mm and 7.62 mm pitch  
 750 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 6kV - 2 for 10 mm and 10.16 mm pitch

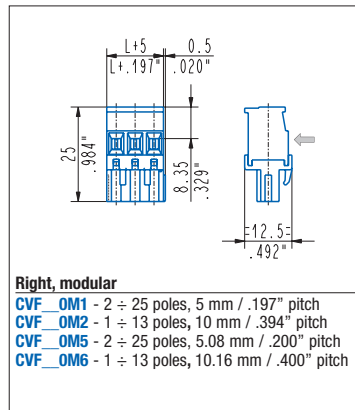
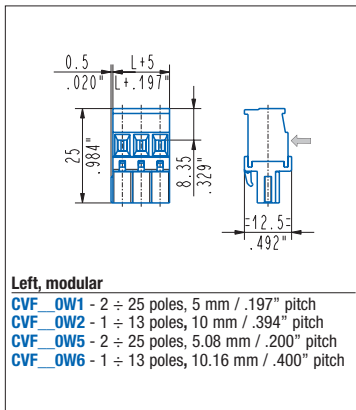
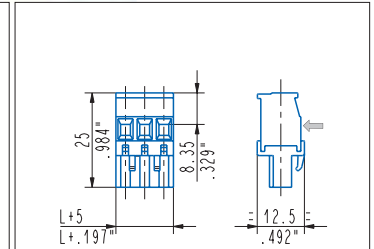
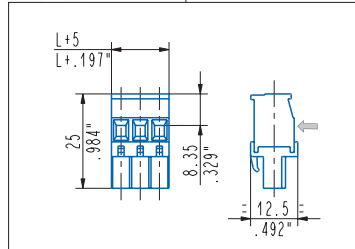
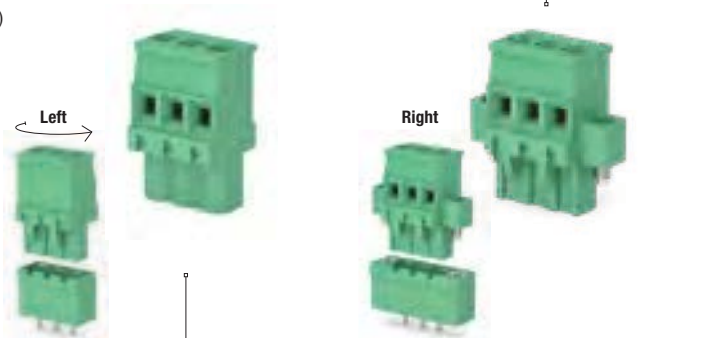
**IMQ (n. EM672)**  
 300 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 - 2.5 mm<sup>2</sup> for 5 mm and 5.08 mm pitch  
 600 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 - 2.5 mm<sup>2</sup> for 7.5 mm and 7.62 mm pitch  
 1000 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 - 2.5 mm<sup>2</sup> for 10 mm and 10.16 mm pitch

**CSA (n. LR102896)**  
 300 V - 15 A - 30÷12 AWG for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
 600 V - 15 A - 30÷12 AWG for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"



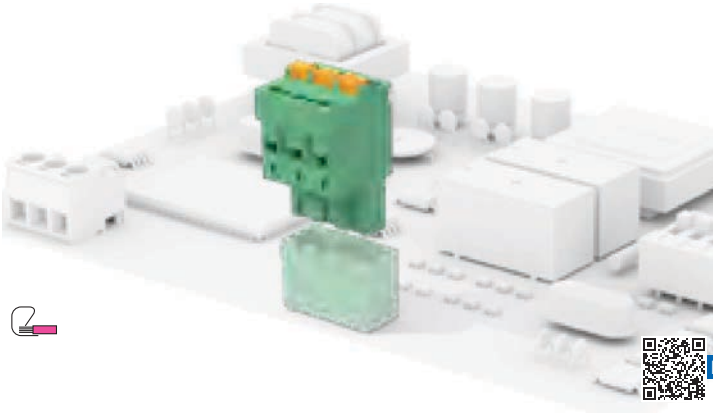
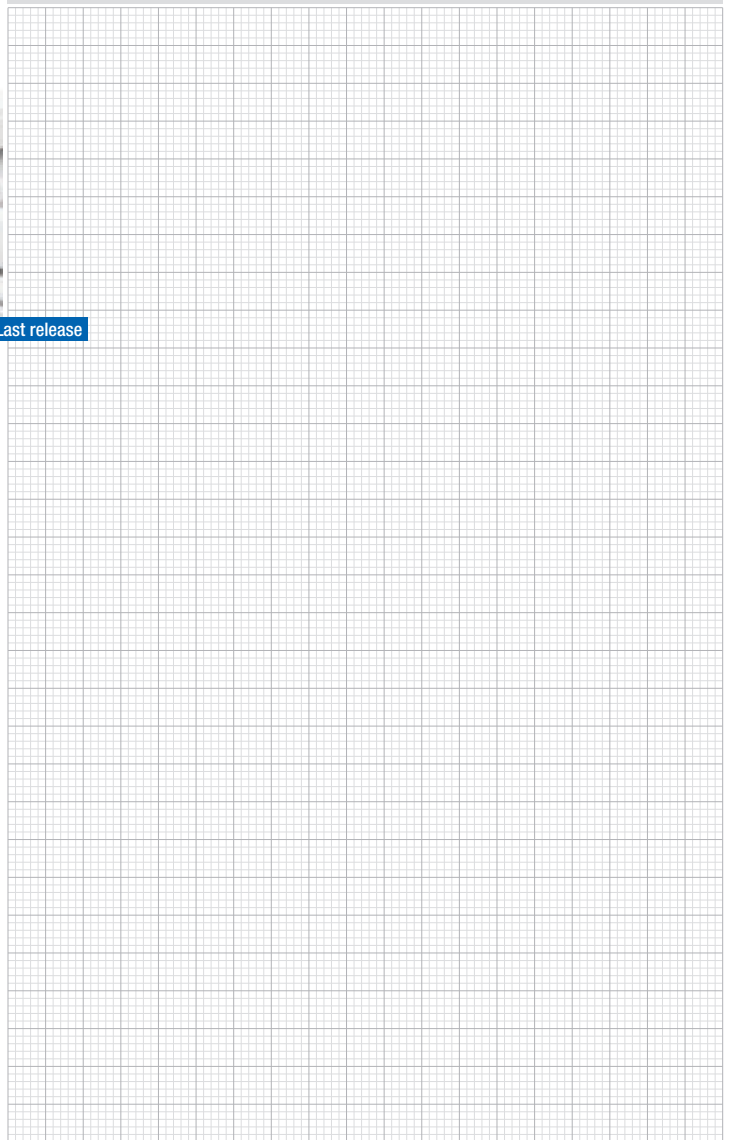
**Usable with:**

<b>CIM</b> Page 68	<b>CIMH</b> Page 70	<b>CPM high</b> Page 72	<b>CPM/CPMH</b> Page 73	<b>CRM</b> Page 74	<b>CIMH normo</b> Page 75	<b>CGM</b> Page 76	<b>CIF-LC1</b> Page 80
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### Your drawings and notes



#### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in) imperial 5.08 mm, 10.16 mm (.200 in, .400 in)
<b>Stripping length:</b>	10 mm (.39 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

#### Certifications

##### UL (n. E167473)

300 V - 12 A - 30÷12 AWG stranded for 5 mm (.197 in), 5.08 mm (.200 in) pitch  
600 V - 12 A - 30÷12 AWG stranded for 10 mm (.394 in) and 10.16 mm (.400 in) pitch

#### Data according to

##### IEC EN 61984

300 V - 12 A - 4kV - 2 - T110 - 2.5 mm<sup>2</sup> - for 5 mm and 5.08 mm pitch  
1000 V - 12 A - 8kV - 2 - T110 - 2.5 mm<sup>2</sup> - for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"

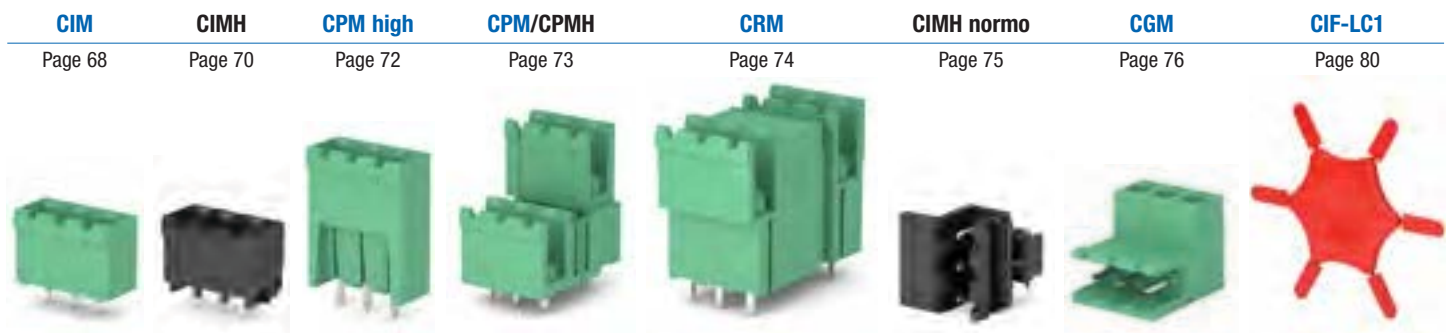
**Side stackable**

- CCF\_001 - 2 ÷ 18 poles, 5 mm / .197" pitch
- CCF\_002 - 2 ÷ 9 poles, 10 mm / .394" pitch
- CCF\_005 - 2 ÷ 22 poles, 5.08 mm / .200" pitch
- CCF\_006 - 2 ÷ 11 poles, 10.16 mm / .400" pitch

**Locking screw flanges**

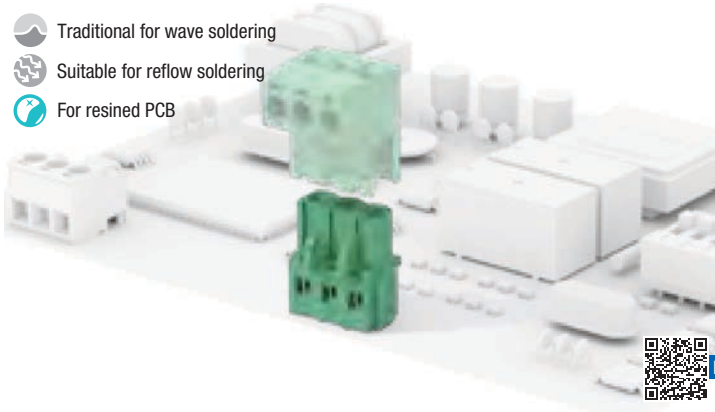
- CCF\_OV1 - 2 ÷ 21 poles, 5 mm / .197" pitch
- CCF\_OV2 - 2 ÷ 10 poles, 10 mm / .394" pitch
- CCF\_OV5 - 2 ÷ 22 poles, 5.08 mm / .200" pitch
- CCF\_OV6 - 2 ÷ 11 poles, 10.16 mm / .400" pitch

### Usable with:



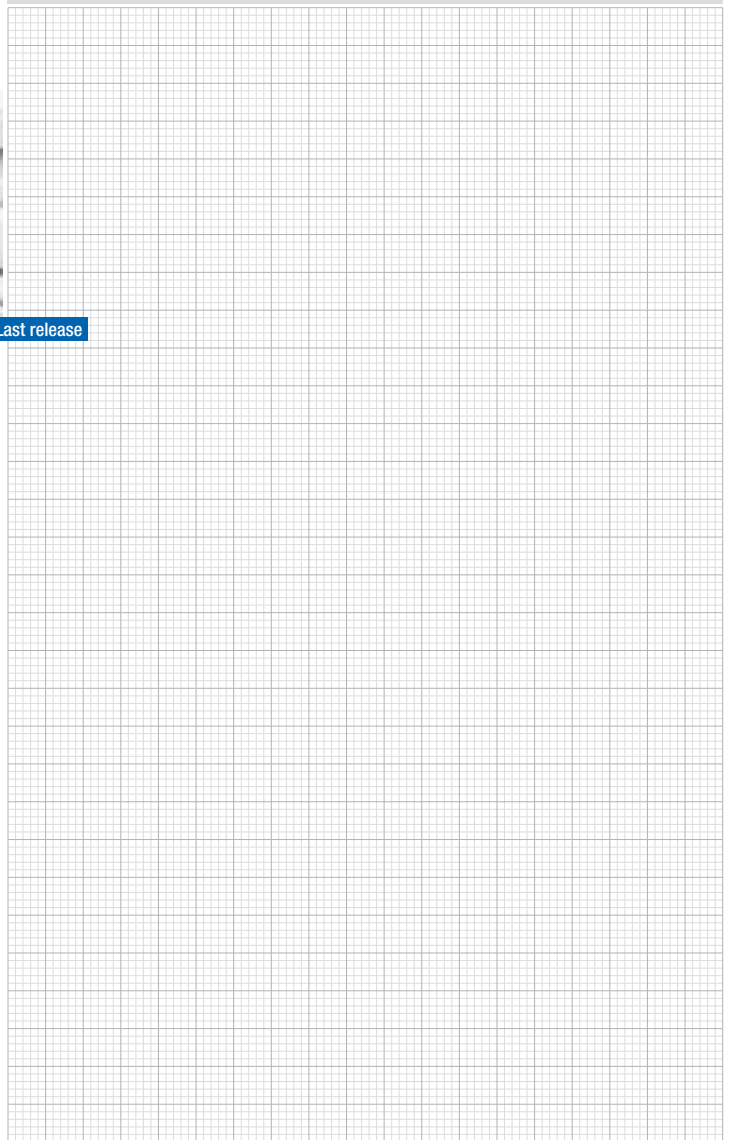


- Traditional for wave soldering
- Suitable for reflow soldering
- For resined PCB



Last release

### Your drawings and notes



#### General data

**Dimensional class:** medium  
**Standard colour:** green  
**Pitches:** metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in)  
 imperial 5.08 mm, 7.62 mm, 10.16 mm (.200 in, .300 in, .400 in)  
**PCB thickness:** max 2.4 mm (.094 in)  
**PCB hole diameter:** min 1.4 mm (.055 in)  
**Operating temperature range:** -40 °C ÷ +105 °C (-40 °F ÷ +221 °F)  
**Contact resistance:** <15 mΩ  
**Insulation resistance:** >10<sup>9</sup> Ω (500V DC)  
**Insulating material group:** I (CTI ≥ 600V)

#### Certifications

##### UL (n. E167473)

300 V - 15 A - for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
 600 V - 15 A - for 10 mm and 10.16 mm pitch

##### VDE (n. 40027448)

250 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 2.5kV - 2 for 5 mm and 5.08 mm pitch  
 500 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 4kV - 2 for 7.5 mm and 7.62 mm pitch  
 750 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 6kV - 2 for 10 mm and 10.16 mm pitch

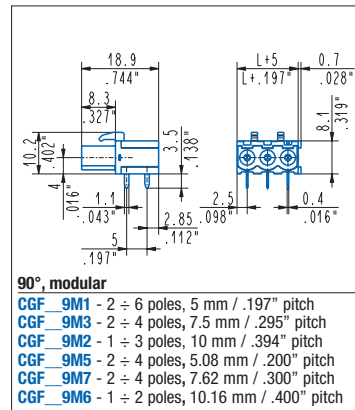
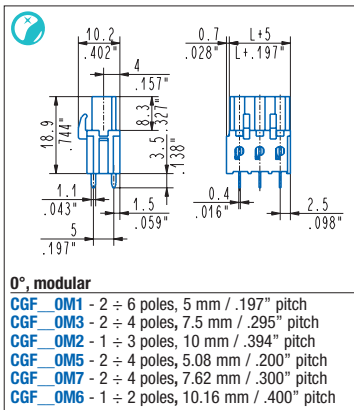
##### IMQ (n. EM672)

300 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 for 5 mm and 5.08 mm pitch  
 600 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 6kV - III/2 for 7.5 mm and 7.62 mm pitch  
 1000 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"

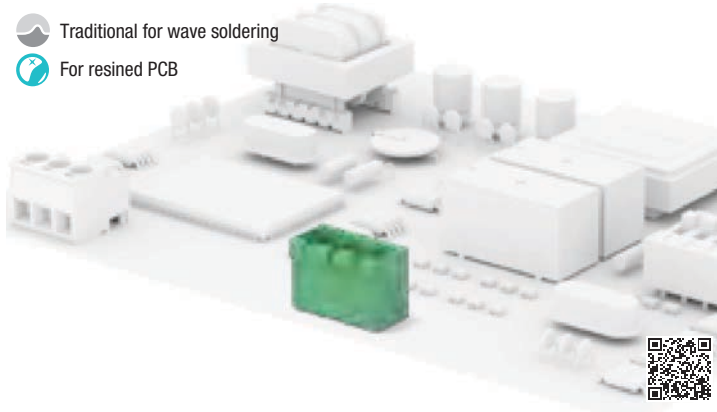


#### Usable with:

CIM	CIMH	CPM high	CPM/CPMH	CRM	CIMH normo	CGM	CIF-LC1
Page 68	Page 70	Page 72	Page 73	Page 74	Page 75	Page 76	Page 80



- Traditional for wave soldering
- For resined PCB



### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 5.08, 7.62, 10.16 mm (.200, .300, .400 in)
<b>PCB thickness:</b>	max 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min 1.4 mm (.055 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 15 A - for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 15 A - for 10 mm and 10.16 mm pitch

#### VDE (n. 40027448)

250 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 2.5 kV - 2 for 5 mm and 5.08 mm pitch  
500 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 4 kV - 2 for 7.5 mm and 7.62 mm pitch  
750 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 6 kV - 2 for 10 mm and 10.16 mm pitch

#### IMQ (n. EM672)

300 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 for 5 mm and 5.08 mm pitch  
600 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 6kV - III/2 for 7.5 mm and 7.62 mm pitch  
1000 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/22 for 10 mm and 10.16 mm pitch

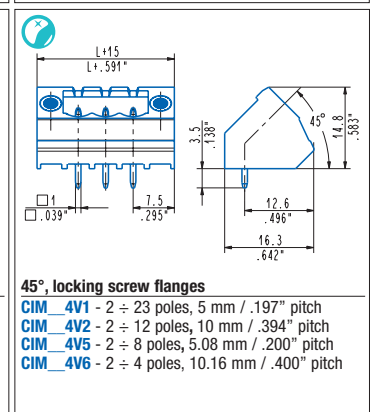
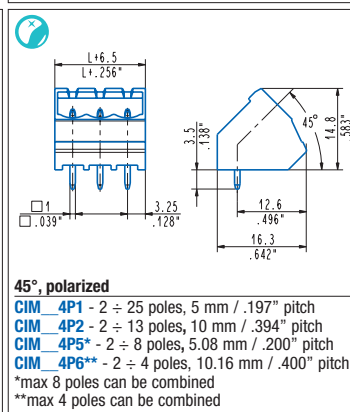
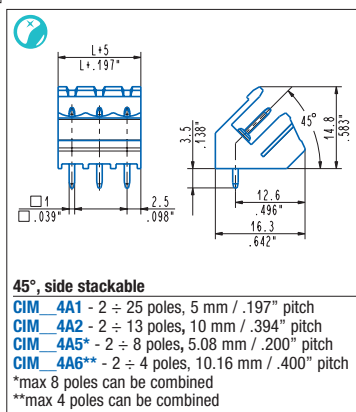
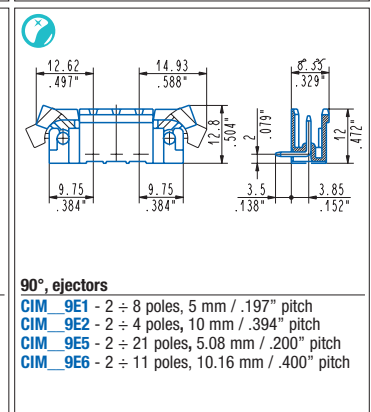
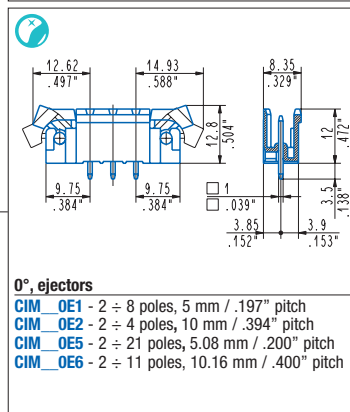
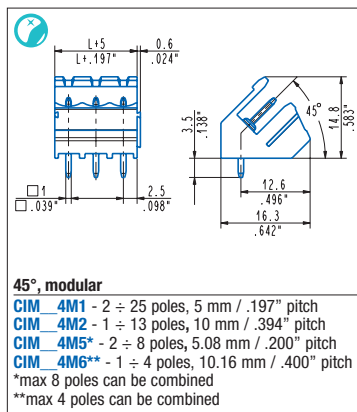
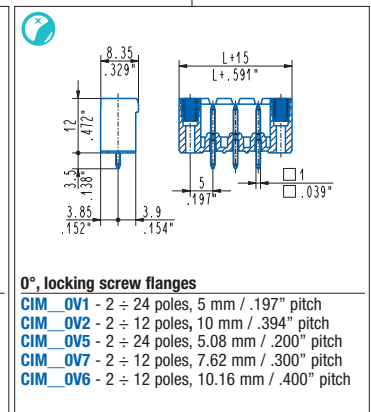
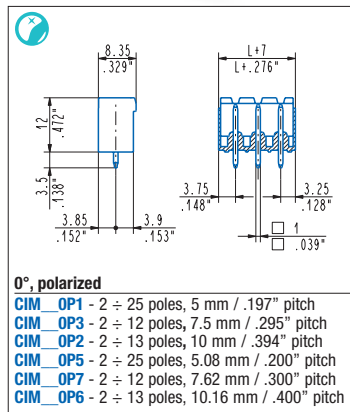
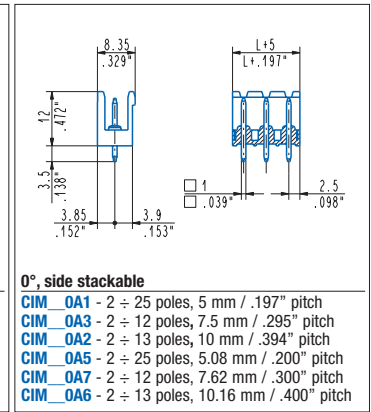
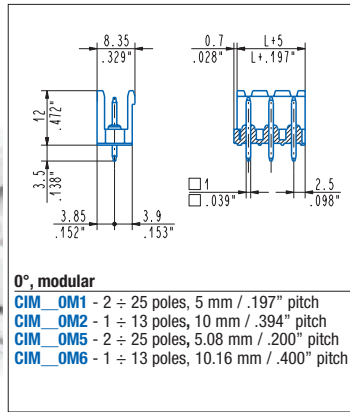
#### CSA (n. LR102896)

300 V - 15 A - for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 15 A - for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"



**90°, modular**  
**CIM\_9M1** - 2 ÷ 25 poles, 5 mm / .197" pitch  
**CIM\_9M2** - 1 ÷ 13 poles, 10 mm / .394" pitch  
**CIM\_9M5** - 2 ÷ 25 poles, 5.08 mm / .200" pitch  
**CIM\_9M6** - 1 ÷ 13 poles, 10.16 mm / .400" pitch

**90°, side stackable**  
**CIM\_9A1** - 2 ÷ 25 poles, 5 mm / .197" pitch  
**CIM\_9A3** - 2 ÷ 12 poles, 7.5 mm / .295" pitch  
**CIM\_9A2** - 2 ÷ 13 poles, 10 mm / .394" pitch  
**CIM\_9A5** - 2 ÷ 25 poles, 5.08 mm / .200" pitch  
**CIM\_9A7** - 2 ÷ 12 poles, 7.62 mm / .300" pitch  
**CIM\_9A6** - 2 ÷ 13 poles, 10.16 mm / .400" pitch

**90°, polarized**  
**CIM\_9P1** - 2 ÷ 25 poles, 5 mm / .197" pitch  
**CIM\_9P3** - 2 ÷ 12 poles, 7.5 mm / .295" pitch  
**CIM\_9P2** - 2 ÷ 13 poles, 10 mm / .394" pitch  
**CIM\_9P5** - 2 ÷ 25 poles, 5.08 mm / .200" pitch  
**CIM\_9P7** - 2 ÷ 12 poles, 7.62 mm / .300" pitch  
**CIM\_9P6** - 2 ÷ 13 poles, 10.16 mm / .400" pitch

**90°, locking screw flanges**  
**CIM\_9V1** - 2 ÷ 24 poles, 5 mm / .197" pitch  
**CIM\_9V2** - 2 ÷ 12 poles, 10 mm / .394" pitch  
**CIM\_9V5** - 2 ÷ 24 poles, 5.08 mm / .200" pitch  
**CIM\_9V7** - 2 ÷ 12 poles, 7.62 mm / .300" pitch  
**CIM\_9V6** - 2 ÷ 12 poles, 10.16 mm / .400" pitch



**90°, side stackable with stand-off**  
**CIM\_RA1** - 2 ÷ 8 poles, 5 mm / .197" pitch  
**CIM\_RA2** - 2 ÷ 4 poles, 10 mm / .394" pitch  
**CIM\_RA5** - 2 ÷ 8 poles, 5.08 mm / .200" pitch

**90°, polarized male with stand-off**  
**CIM\_RP1** - 2 ÷ 8 poles, 5 mm / .197" pitch  
**CIM\_RP2** - 2 ÷ 4 poles, 10 mm / .394" pitch



**270°, modular**  
**CIM\_5M1** - 2 ÷ 25 poles, 5 mm / .197" pitch  
**CIM\_5M2** - 1 ÷ 13 poles, 10 mm / .394" pitch  
**CIM\_5M5** - 2 ÷ 25 poles, 5.08 mm / .200" pitch  
**CIM\_5M6** - 1 ÷ 13 poles, 10.16 mm / .400" pitch

**270°, side stackable**  
**CIM\_5A1** - 2 ÷ 25 poles, 5 mm / .197" pitch  
**CIM\_5A3** - 2 ÷ 12 poles, 7.5 mm / .295" pitch  
**CIM\_5A2** - 2 ÷ 13 poles, 10 mm / .394" pitch  
**CIM\_5A5** - 2 ÷ 25 poles, 5.08 mm / .200" pitch  
**CIM\_5A7** - 2 ÷ 12 poles, 7.62 mm / .300" pitch  
**CIM\_5A6** - 2 ÷ 13 poles, 10.16 mm / .400" pitch

**270°, locking screw flanges**  
**CIM\_5V1** - 2 ÷ 24 poles, 5 mm / .197" pitch  
**CIM\_5V2** - 2 ÷ 12 poles, 10 mm / .394" pitch  
**CIM\_5V5** - 2 ÷ 24 poles, 5.08 mm / .200" pitch  
**CIM\_5V7** - 2 ÷ 12 poles, 7.62 mm / .300" pitch  
**CIM\_5V6** - 2 ÷ 12 poles, 10.16 mm / .400" pitch

**270°, ejector ears**  
**CIM\_5E1** - 2 ÷ 8 poles, 5 mm / .197" pitch  
**CIM\_5E2** - 2 ÷ 4 poles, 10 mm / .394" pitch  
**CIM\_5E5** - 2 ÷ 21 poles, 5.08 mm / .200" pitch  
**CIM\_5E6** - 2 ÷ 11 poles, 10.16 mm / .400" pitch



**270°, polarized**  
**CIM\_5P1** - 2 ÷ 25 poles, 5 mm / .197" pitch  
**CIM\_5P3** - 2 ÷ 12 poles, 7.5 mm / .295" pitch  
**CIM\_5P2** - 2 ÷ 13 poles, 10 mm / .394" pitch  
**CIM\_5P5** - 2 ÷ 25 poles, 5.08 mm / .200" pitch  
**CIM\_5P7** - 2 ÷ 12 poles, 7.62 mm / .300" pitch  
**CIM\_5P6** - 2 ÷ 13 poles, 10.16 mm / .400" pitch

**270°, locking screw flanges**  
**CIM\_5V1** - 2 ÷ 24 poles, 5 mm / .197" pitch  
**CIM\_5V2** - 2 ÷ 12 poles, 10 mm / .394" pitch  
**CIM\_5V5** - 2 ÷ 24 poles, 5.08 mm / .200" pitch  
**CIM\_5V7** - 2 ÷ 12 poles, 7.62 mm / .300" pitch  
**CIM\_5V6** - 2 ÷ 12 poles, 10.16 mm / .400" pitch



**Usable with:**

**CIF**

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**CVF**

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**CCF**

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**CCF double**

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**CGF**

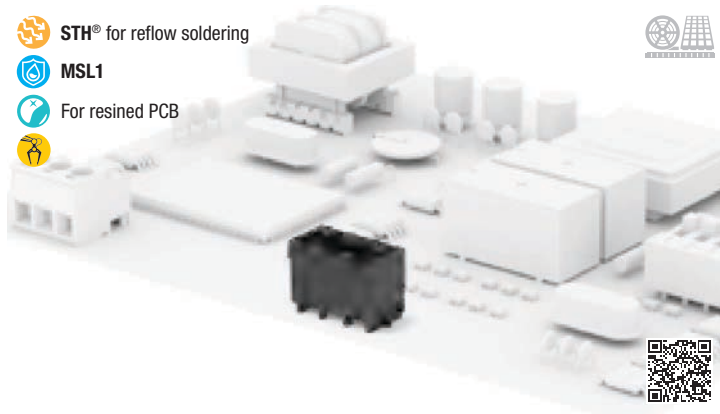
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**CIM-SC1**

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- STH<sup>®</sup>** for reflow soldering
- MSL1**
- For resined PCB
- 



### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 7.5 mm, 10 mm (.197 in, .295 in, .394 in) imperial 5.08 mm, 7.62 mm, 10.16 mm (.200 in, .300 in, .400 in)
<b>PCB thickness:</b>	max 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min 1.5 mm (.059 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 15 A - for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 15 A - for 10 mm and 10.16 mm pitch

#### VDE (n. 40027448)

250 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 2.5 kV - 2 for 5 mm and 5.08 mm pitch  
500 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 4 kV - 2 for 7.5 mm and 7.62 mm pitch  
750 V - 16 A - 2.5 mm<sup>2</sup> - T100 - 6 kV - 2 for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"

**0°, modular**  
CIMH\_\_OM1-ON 2 ÷ 8 poles, 5 mm / .197" pitch

**0°, polarized**  
CIMH\_\_OP1-ON 2 ÷ 20 poles, 5 mm/.197" pitch  
CIMH\_\_OP3-ON 2 ÷ 5 poles, 7.5 mm/.295" pitch  
CIMH\_\_OP2-ON 2 ÷ 10 poles, 10 mm/.394" pitch  
CIMH\_\_OP5-ON 2 ÷ 25 poles, 5.08 mm/.200" pitch  
CIMH\_\_OP7-ON 2 ÷ 5 poles, 7.62 mm/.300" pitch  
CIMH\_\_OP6-ON 2 ÷ 13 poles, 10.16 mm/.400" pitch



**0°, side stackable**  
CIMH\_\_OA1-ON 2 ÷ 20 poles, 5 mm/.197" pitch  
CIMH\_\_OA3-ON 2 ÷ 5 poles, 7.5 mm/.295" pitch  
CIMH\_\_OA2-ON 2 ÷ 10 poles, 10 mm/.394" pitch  
CIMH\_\_OA5-ON 2 ÷ 25 poles, 5.08 mm/.200" pitch  
CIMH\_\_OA7-ON 2 ÷ 5 poles, 7.62 mm/.300" pitch  
CIMH\_\_OA6-ON 2 ÷ 13 poles, 10.16 mm/.400" pitch



**45°, modular**  
CIMH\_\_4M1-ON 2 ÷ 5 poles, 5 mm / .197" pitch  
CIMH\_\_4M5-ON 2 ÷ 5 poles, 5.08 mm / .200" pitch

**45°, polarized**  
CIMH\_\_4P1-ON 2 ÷ 5 poles, 5 mm / .197" pitch  
CIMH\_\_4P2-ON 2 ÷ 3 poles, 10 mm / .394" pitch  
CIMH\_\_4P5-ON 2 ÷ 5 poles, 5.08 mm / .200" pitch  
CIMH\_\_4P6-ON 2 ÷ 3 poles, 10.16 mm / .400" pitch

**45°, locking screw flanges**  
CIMH\_\_4V1-ON 2 ÷ 5 poles, 5 mm / .197" pitch  
CIMH\_\_4V5-ON 2 ÷ 5 poles, 5.08 mm / .200" pitch

**0°, locking screw flanges**  
CIMH\_\_OF1-ON 2 ÷ 20 poles, 5 mm / .197" pitch  
CIMH\_\_OF5-ON 2 ÷ 24 poles, 5.08 mm / .200" pitch

**0°, locking screw flanges**  
CIMH\_\_OV1-ON 2 ÷ 20 poles, 5 mm / .197" pitch  
CIMH\_\_OV2-ON 2 ÷ 10 poles, 10 mm / .394" pitch  
CIMH\_\_OV5-ON 2 ÷ 24 poles, 5.08 mm / .200" pitch  
CIMH\_\_OV7-ON 2 ÷ 12 poles, 7.62 mm / .300" pitch  
CIMH\_\_OV6-ON 2 ÷ 12 poles, 10.16 mm / .400" pitch



**90°, modular**  
**CIMH\_9M1-ON** 2 ÷ 8 poles, 5 mm / .197" pitch

**90°, polarized**  
**CIMH\_9P1-ON** 2 ÷ 19 poles, 5 mm/.197" pitch  
**CIMH\_9P3-ON** 2 ÷ 5 poles, 7.5 mm/.295" pitch  
**CIMH\_9P2-ON** 2 ÷ 10 poles, 10 mm/.394" pitch  
**CIMH\_9P5-ON** 2 ÷ 25 poles, 5.08 mm/.200" pitch  
**CIMH\_9P7-ON** 2 ÷ 5 poles, 7.62 mm/.300" pitch  
**CIMH\_9P6-ON** 2 ÷ 13 poles, 10.16 mm/.400" pitch

**90°, side stackable**  
**CIMH\_9A1-ON** 2 ÷ 19 poles, 5 mm/.197" pitch  
**CIMH\_9A3-ON** 2 ÷ 5 poles, 7.5 mm/.295" pitch  
**CIMH\_9A2-ON** 2 ÷ 10 poles, 10 mm/.394" pitch  
**CIMH\_9A5-ON** 2 ÷ 25 poles, 5.08 mm/.200" pitch  
**CIMH\_9A7-ON** 2 ÷ 5 poles, 7.62 mm/.300" pitch  
**CIMH\_9A6-ON** 2 ÷ 13 poles, 10.16 mm/.400" pitch

**90°, PCB fixing screw flanges**  
**CIMH\_9S5-ON** 2 ÷ 20 poles, 5.08 mm/.200" pitch  
**CIMH\_9S6-ON** 2 ÷ 10 poles, 10 mm / .394" pitch



**270°, polarized**  
**CIMH\_5P1-ON** 2 ÷ 19 poles, 5 mm/.197" pitch

**270°, side stackable**  
**CIMH\_5A1-ON** 2 ÷ 19 poles, 5 mm/.197" pitch  
**CIMH\_5A5-ON** 2 ÷ 25 poles, 5.08 mm/.200" pitch

**270°, locking screw flanges**  
**CIMH\_5V5-ON** 2÷24 poles, 5.08 mm / .200" pitch

**90°, locking screw flanges**  
**CIMH\_9F1-ON** 2÷20 poles, 5 mm / .197" pitch  
**CIMH\_9F5-ON** 2÷24 poles, 5.08 mm / .200" pitch



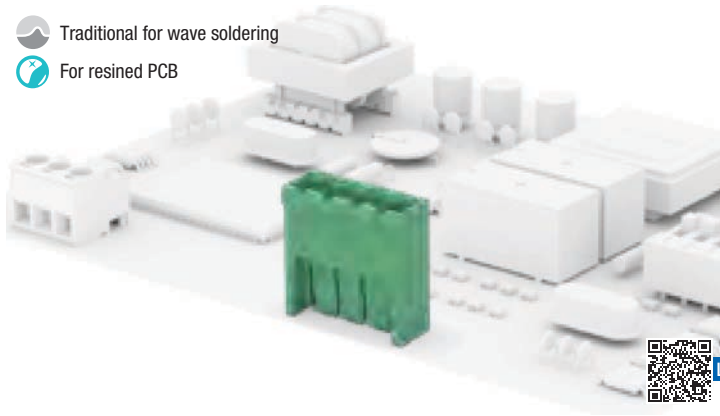
**90°, locking screw flanges**  
**CIMH\_9V1-ON** 2÷20 poles, 5 mm / .197" pitch  
**CIMH\_9V2-ON** 2÷10 poles, 10 mm / .394" pitch  
**CIMH\_9V5-ON** 2÷24 poles, 5.08 mm / .200" pitch  
**CIMH\_9V7-ON** 2÷12 poles, 7.62 mm / .300" pitch  
**CIMH\_9V6-ON** 2÷12 poles, 10.16 mm / .400" pitch

**Usable with:**

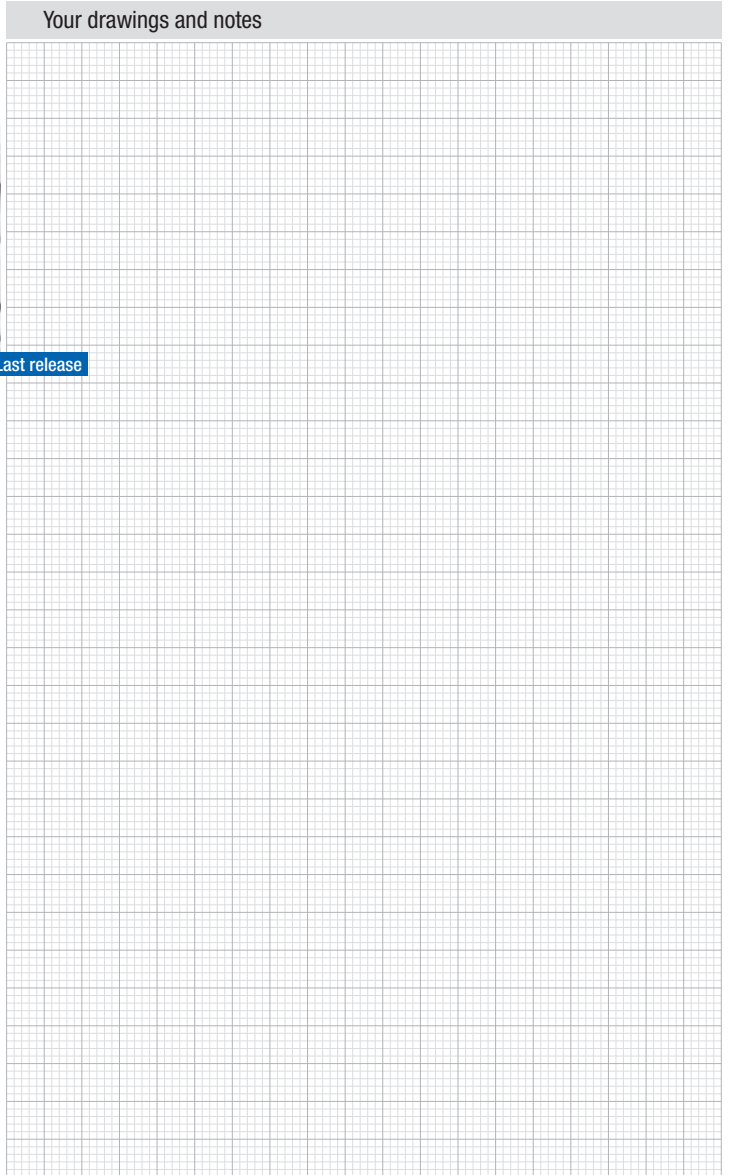
- CIF**  
Page 63
- CVF**  
Page 64
- CCF**  
Page 65
- CCF double**  
Page 66
- CGF**  
Page 67



- Traditional for wave soldering
- For resin PCB



Last release



**General data**

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in)
<b>PCB thickness:</b>	max 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min 1.4 mm (.055 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

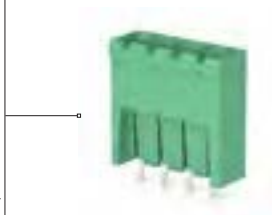
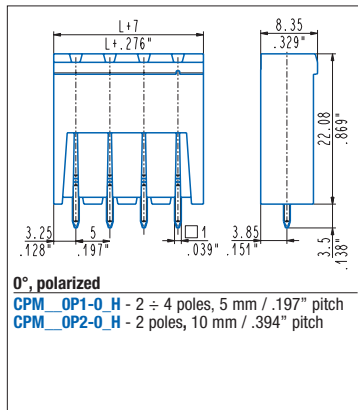
**Data according to**

**UL 1059**  
 300 V - 12 A - for 5 mm pitch  
 600 V - 12 A - for 10 mm pitch

**IEC EN 61984**  
 250 V - 12 A - 5 mm pitch  
 750 V - 12 A - 10 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



**Usable with:**

- CIF** Page 63
- CVF** Page 64
- CCF** Page 65
- CCF double** Page 66
- CGF** Page 67
- CIM-SC1** Page 80







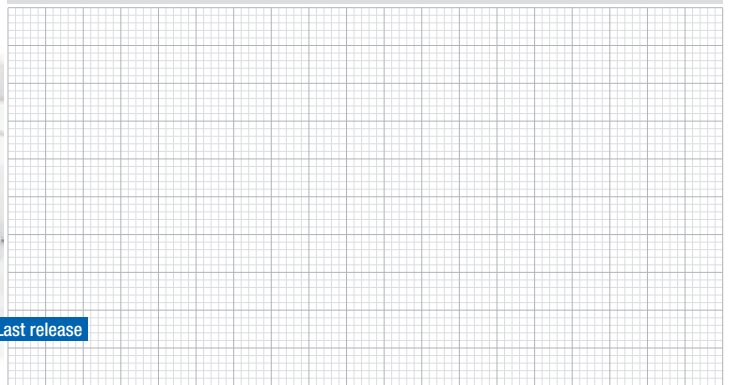
- Traditional for wave soldering
- Suitable for reflow soldering
- For resined PCB

- STH® for reflow soldering
- MSL1
- For resined PCB



Last release

## Your drawings and notes



In order to protect terminals during transport, the product in box is packaged in row trays.



### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green for wave soldering, black for reflow soldering
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in) imperial 5.08 mm, 10.16 mm (.200 in, .400 in) max 2.4 mm (.094 in)
<b>PCB thickness:</b>	max 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min 1.6 mm (.063 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>STH operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

#### UL (n. E167473)

300 V - 12 A - 30÷12 AWG for 5 mm and 5.08 mm pitch  
600 V - 12 A - 30÷12 AWG for 10 mm and 10.16 mm pitch

#### VDE (n. 40027448)

250 V - 16 A - 2.5 mm<sup>2</sup> - T80 - 2.5kV - 2 for 5 mm and 5.08 mm pitch  
750 V - 16 A - 2.5 mm<sup>2</sup> - T80 - 6kV - 2 for 10 mm and 10.16 mm pitch

#### IMQ (n. EM672)

300 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 for 5 mm and 5.08 mm pitch  
1000 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 for 10 mm and 10.16 mm pitch

#### CSA (n. LR102896)

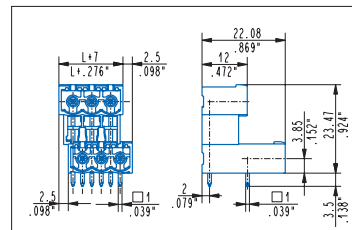
300 V - 15 A - for 5 mm and 5.08 mm pitch  
600 V - 15 A - for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

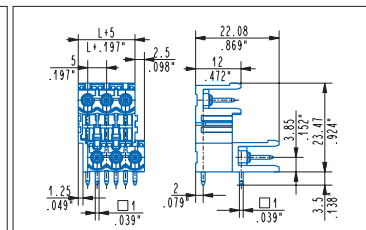
Please see "CONNECTORS COMBINATIONS"

(\*) A higher number of poles for the polarized version is obtained by combining together modular and polarized parts as the example above.



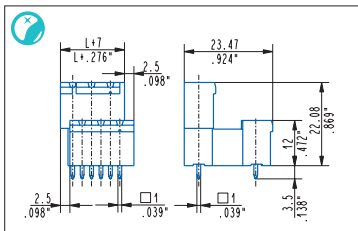
#### 90°, polarized (\*)

- CPM\_9P1 - 2 ÷ 3 poles, 5 mm / .197" pitch
- CPM\_9P2 - 2 poles, 10 mm / .394" pitch
- CPM\_9P5 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- CPM\_9P6 - 2 poles, 10.16 mm / .400" pitch
- CPMH\_9P1-ON 2÷3 poles, 5 mm / .197" pitch
- CPMH\_9P2-ON 2 poles, 10 mm / .394" pitch
- CPMH\_9P5-ON 2÷3 poles, 5.08 mm / .200" pitch
- CPMH\_9P6-ON 2 poles, 10.16 mm / .400" pitch



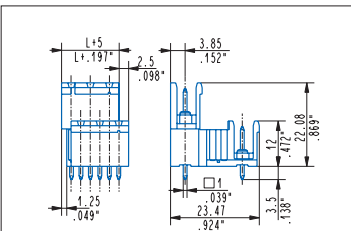
#### 90°, modular

- CPM\_9M1 - 2 ÷ 3 poles, 5 mm / .197" pitch
- CPM\_9M2 - 1 ÷ 2 poles, 10 mm / .394" pitch
- CPM\_9M5 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- CPM\_9M6 - 1 ÷ 2 poles, 10.16 mm / .400" pitch
- CPMH\_9M1-ON 2÷3 poles, 5 mm / .197" pitch
- CPMH\_9M2-ON 1÷2 poles, 10 mm / .394" pitch
- CPMH\_9M5-ON 2÷3 poles, 5.08 mm / .200" pitch
- CPMH\_9M6-ON 1÷2 poles, 10.16 mm / .400" pitch



#### 0°, polarized (\*)

- CPM\_0P1 - 2 ÷ 8 poles, 5 mm / .197" pitch
- CPM\_0P2 - 2 ÷ 4 poles, 10 mm / .394" pitch
- CPM\_0P5 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- CPM\_0P6 - 2 poles, 10.16 mm / .400" pitch
- CPMH\_0P1-ON 2÷8 poles, 5 mm / .197" pitch
- CPMH\_0P2-ON 2÷4 poles, 10 mm / .394" pitch
- CPMH\_0P5-ON 2÷3 poles, 5.08 mm / .200" pitch
- CPMH\_0P6-ON 2 poles, 10.16 mm / .400" pitch



#### 0°, modular

- CPM\_0M1 - 2 ÷ 8 poles, 5 mm / .197" pitch
- CPM\_0M2 - 1 ÷ 4 poles, 10 mm / .394" pitch
- CPM\_0M5 - 2 ÷ 3 poles, 5.08 mm / .200" pitch
- CPM\_0M6 - 1 ÷ 2 poles, 10.16 mm / .400" pitch
- CPMH\_0M1-ON 2÷8 poles, 5 mm / .197" pitch
- CPMH\_0M2-ON 1÷4 poles, 10 mm / .394" pitch
- CPMH\_0M5-ON 2÷3 poles, 5.08 mm / .200" pitch
- CPMH\_0M6-ON 1÷2 poles, 10.16 mm / .400" pitch

### Usable with:

#### CIF

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#### CVF

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#### CCF

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#### CCF double

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#### CGF

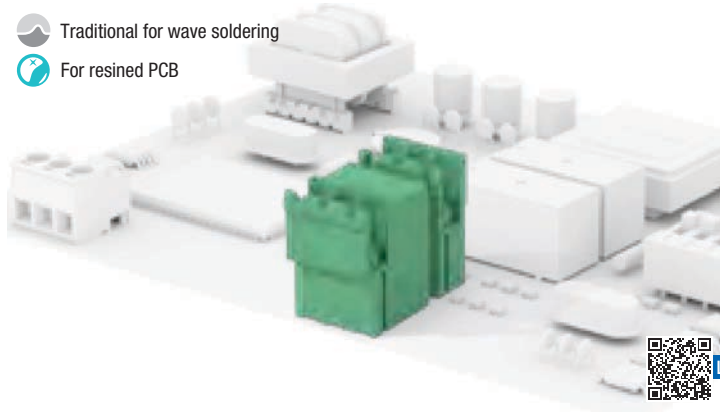
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#### CIM-SC1

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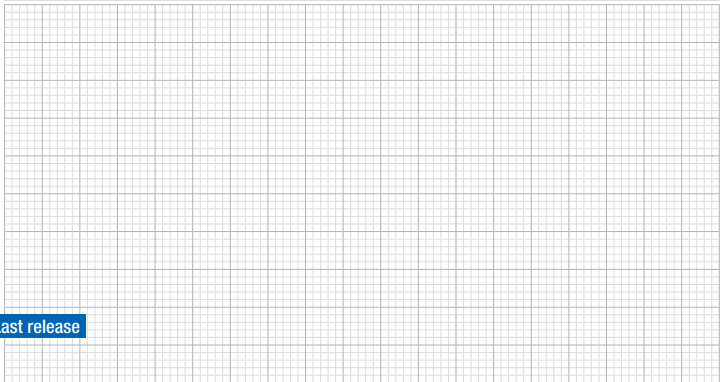


- Traditional for wave soldering
- For resined PCB



Last release

### Your drawings and notes



#### General data

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in) imperial 5.08 mm, 10.16 mm (.200 in, .400 in)
<b>PCB thickness:</b>	max 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min 1.4 mm (.055 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

#### Certifications

##### UL (n. E167473)

300 V - 15 A - for 5 mm and 5.08 mm pitch  
600 V - 15 A - for 10 mm and 10.16 mm pitch

##### VDE (n. 40027448)

250 V - 16 A - 2.5 mm<sup>2</sup> - T75 - 2.5kV - 2 for 5 mm and 5.08 mm pitch  
750 V - 16 A - 2.5 mm<sup>2</sup> - T75 - 6kV - 2 for 10 mm and 10.16 mm pitch

##### IMQ (n. EM672)

300 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 for 5 mm and 5.08 mm pitch  
1000 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 for 10 mm and 10.16 mm pitch

##### CSA (n. LR102896)

300 V - 15 A - for 5 mm and 5.08 mm pitch  
600 V - 15 A - for 10 mm and 10.16 mm pitch

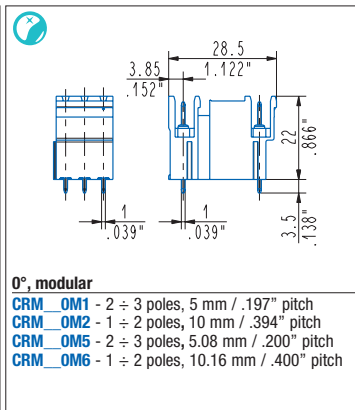
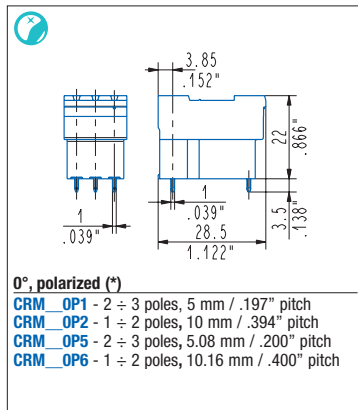
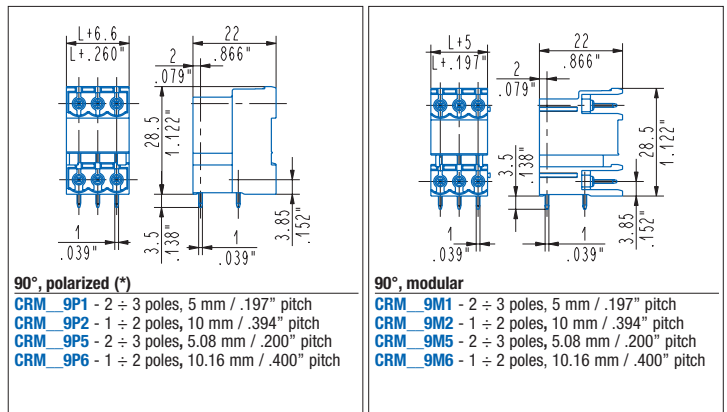
Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

Please see "CONNECTORS COMBINATIONS"



(\*) A higher number of poles for the polarized version is obtained by combining together modular and polarized parts as the example above.



#### Usable with:

<b>CIF</b> Page 63	<b>CVF</b> Page 64	<b>CCF</b> Page 65	<b>CCF double</b> Page 66	<b>CGF</b> Page 67	<b>CIM-SC1</b> Page 80
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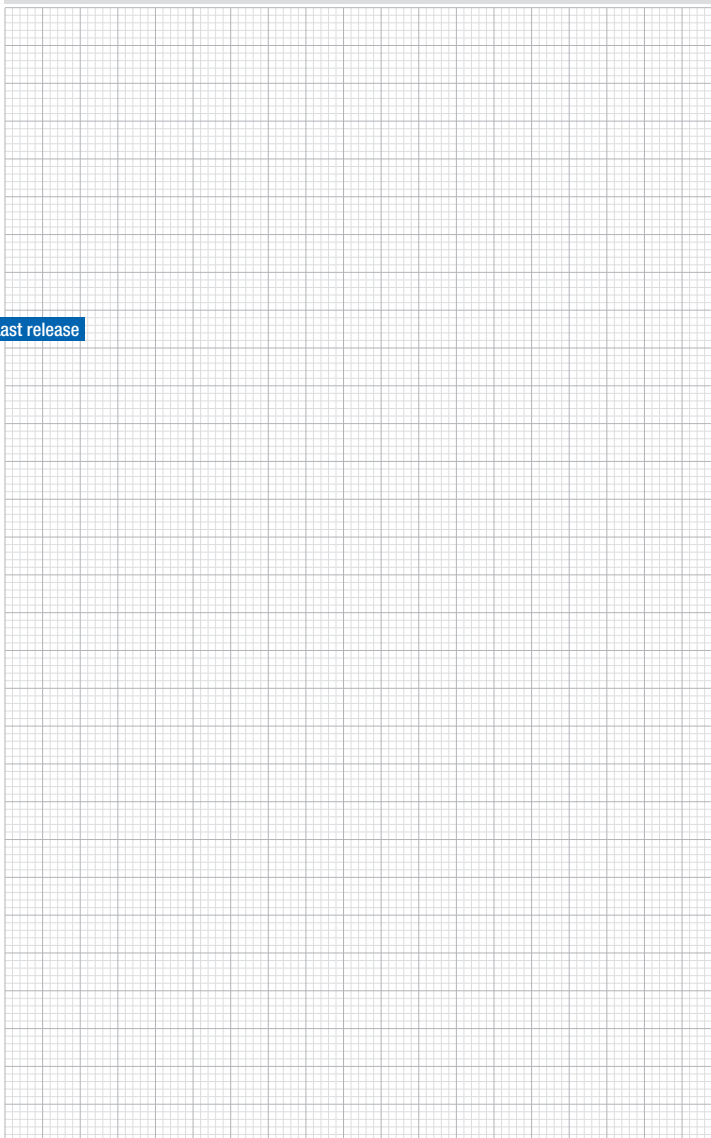
STH® for reflow soldering

MSL1



Last release

Your drawings and notes



### General data

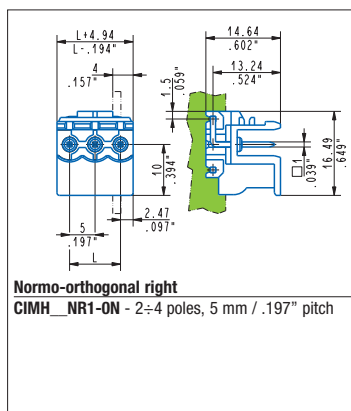
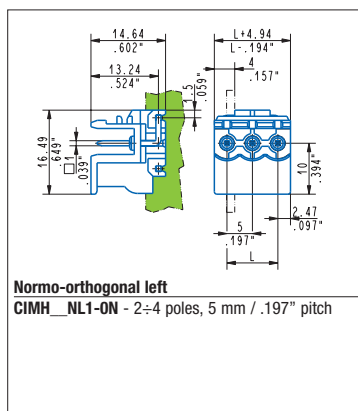
<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	black
<b>Pitches:</b>	metric 5 mm, (.197 in)
<b>PCB thickness:</b>	max 2.4 mm (.094 in)
<b>PCB hole diameter:</b>	min 1.6 mm (.063 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

### Certifications

**UL (n. E167473)**  
300 V - 12 A

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

Please see "CONNECTORS COMBINATIONS"



### Usable with:

**CIF**

Page 63

**CVF**

Page 64

**CCF**

Page 65

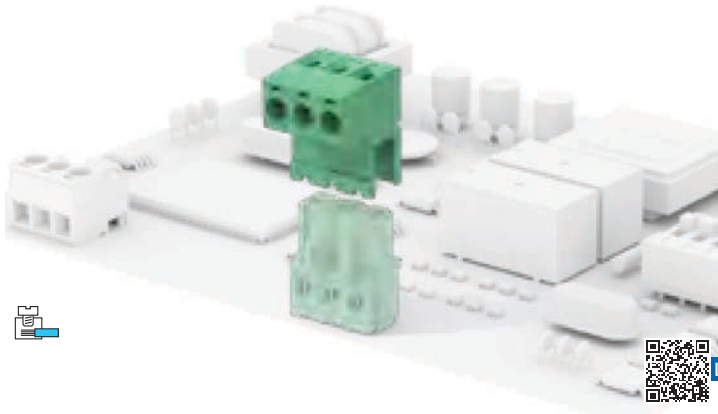
**CCF double**

Page 66

**CGF**

Page 67





Last release



**General data**

<b>Dimensional class:</b>	Medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5, 7.5, 10 mm (.197, .295, .394 in) imperial 5.08, 7.62, 10.16 in (.200, .300, .400 in)
<b>Screw dimension:</b>	M3
<b>Recommended/Highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.3 lbf-in)
<b>Stripping length:</b>	6 ÷ 7.5 mm (.24 ÷ .30 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

**UL (n. E167473)**  
300 V - 15 A - 30÷12 AWG - 7 lbf-in or 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch  
600 V - 15 A - 30÷12 AWG - 7 lbf-in or 10 mm and 10.16 mm pitch

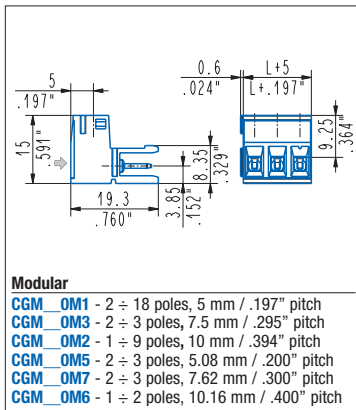
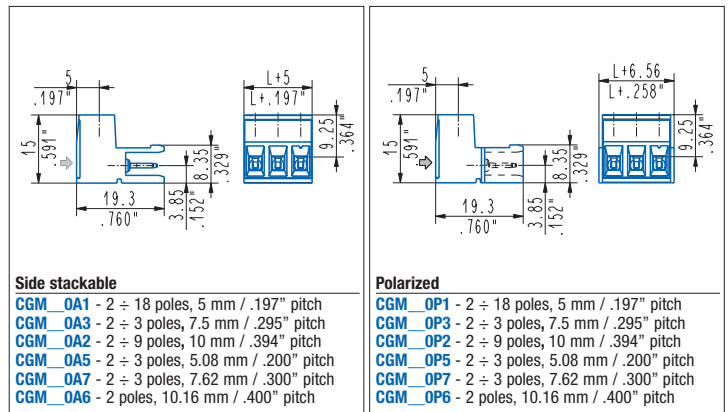
**VDE (n. 40027448)**  
250 V - 16 A - 2.5 mm<sup>2</sup> - T110 - 2,5kV - 2 for 5 mm and 5.08 mm pitch  
500 V - 16 A - 2.5 mm<sup>2</sup> - T110 - 4kV - 2 for 7.5 mm and 7.62 mm pitch  
750 V - 16 A - 2.5 mm<sup>2</sup> - T110 - 6kV - 2 for 10 mm and 10.16 mm pitch

**IMQ (n. EM672)**  
300 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 4kV - III/2 for 5 mm and 5.08 mm pitch  
600 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 6kV - III/2 for 7.5 mm and 7.62 mm pitch  
1000 V - 12 A - 2.5 mm<sup>2</sup> - T110 - 8kV - III/2 for 10 mm and 10.16 mm pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.

A higher number of poles is obtained by combining together **modular** parts.

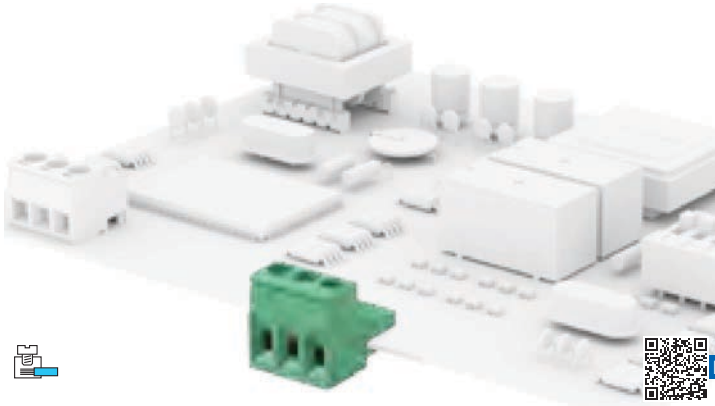
Please see "CONNECTORS COMBINATIONS"



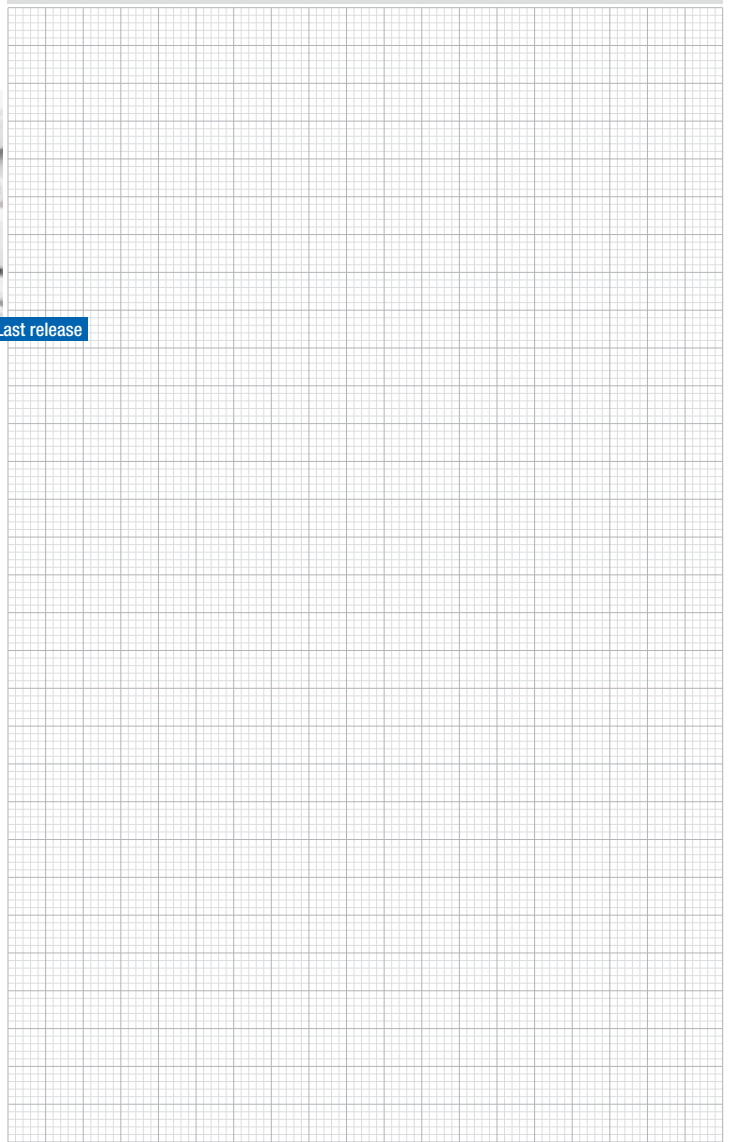
Usable with:

<b>CIF</b> Page 63	<b>CVF</b> Page 64	<b>CCF</b> Page 65	<b>CCF double</b> Page 66	<b>CGF</b> Page 67	<b>CIM-SC1</b> Page 80
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Your drawings and notes



**General data**

<b>Dimensional class:</b>	medium
<b>Standard colour:</b>	green
<b>Pitches:</b>	metric 5 mm, 10 mm (.197 in, .394 in)
<b>Screw dimension:</b>	M3
<b>Recommended/highest tightening torque:</b>	0.5/0.6 Nm (4.42/5.30 lbf-in)
<b>Stripping length:</b>	6 ÷ 7.5 mm (.24 ÷ .30 in)
<b>Operating temperature range:</b>	-40 °C ÷ +105 °C (-40 °F ÷ +221 °F)
<b>Contact resistance:</b>	<15 mΩ
<b>Insulation resistance:</b>	>10 <sup>9</sup> Ω (500V DC)
<b>Insulating material group:</b>	I (CTI ≥ 600V)

**Certifications**

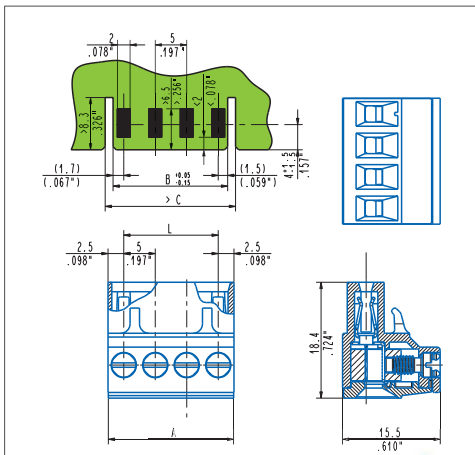
**UL (n. E167473)**

300 V - 10 A - 30÷12 AWG - 7 lbf-in for 5 mm (.197 in) pitch  
 600 V - 10 A - 30÷12 AWG - 7 lbf-in for 10 mm (.394 in) pitch

**VDE (n. 40017856)**

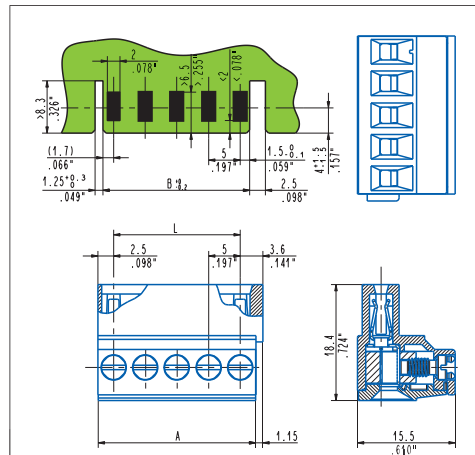
250 V - 10 A - T110 - 1.5 mm<sup>2</sup> - 2,5kV - 2 for 5 mm (.197 in) pitch  
 750 V - 10 A - T110 - 1.5 mm<sup>2</sup> - 6kV - 2 for 10 mm (.394 in) pitch

Application values for end-use equipment have to be in accordance to norms and applicable to it. The certifications of some product's versions could be pending, for more detailed and updated data please refer to our web site [www.sauro.net](http://www.sauro.net) or your representative Sales Manager.



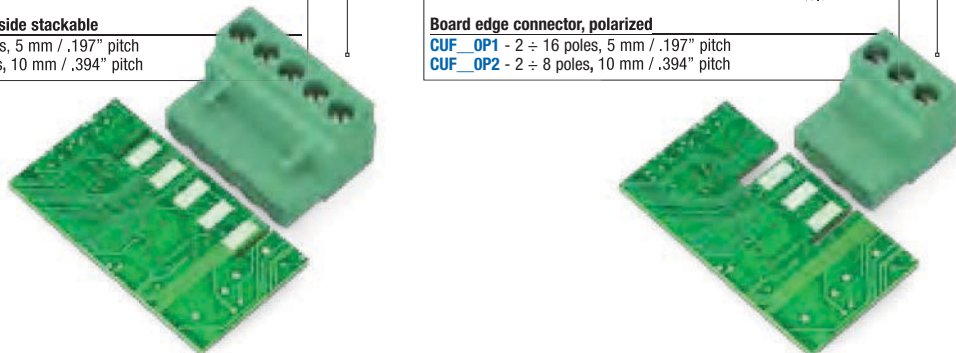
**Board edge connector, side stackable**

- CUF\_001 - 2 ÷ 16 poles, 5 mm / .197" pitch
- CUF\_002 - 2 ÷ 8 poles, 10 mm / .394" pitch



**Board edge connector, polarized**

- CUF\_OP1 - 2 ÷ 16 poles, 5 mm / .197" pitch
- CUF\_OP2 - 2 ÷ 8 poles, 10 mm / .394" pitch

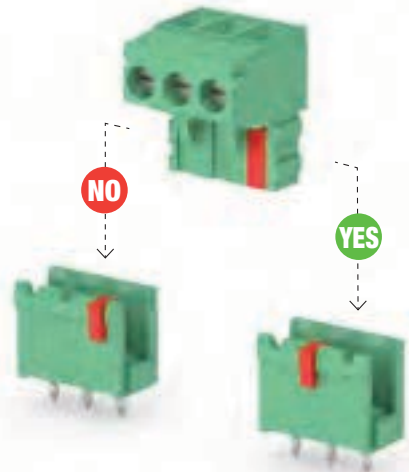




## Accessories

<b>CODING CLIPS AND SPLINES</b>	80
<b>BRIDGE FOR SHORT CIRCUIT</b>	81
<b>OCCLUDERS</b>	82





Coding clips and splines are made of RED PA 6.6 Polyamide (not suitable for reflow soldering), which is:

- phosphorus, dioxins, halogens and antimony trioxide free, all detrimental substances
- resistant to chlorinated solvents
- V0 class self-extinguishing according to UL94

**Coding clip**  
CKF-SC1 - pcs/pack 120

By using these clips, it is possible to polarize CTF, CBF and CKF female connector series. This is achieved by hooking one or more CKF-SC1 coding clips into the recesses of the female connector and by inserting CTM-LC1 coding splines into the grooves of the corresponding male connectors, in the appropriate complementary positions.

**The CKF-LC1 coding clips can be used with the CTF, CBF and CKF female connector series.**

**CKF**

**CTF**

**CBF**

**Coding spline**  
CTM-LC1 - pcs/pack 120

By using these splines, it is possible to polarize CTM male connector series. This is achieved by inserting one or more CTM-LC1 coding splines into the grooves of the male connector and by hooking the CKF-SC1 coding clips into the recesses of the corresponding female connector, in the appropriate complementary positions.

**The CTM-LC1 coding spline can be used with the CTM\* male connector series.**

\* Up to 13 poles

**CTM**

**Coding spline**  
CIF-LC1 - Pcs/pack 120

By using these splines, it is possible to polarize CIF, CVF, CGF, CTM\*, CCF and CCF double female connector series. This is achieved by inserting one or more CIF-LC1 coding splines into the recesses of the female connector and by hooking the CIM-SC1 coding clips into the grooves of the corresponding male connectors, in the appropriate complementary positions.

**The CIF-LC1 coding spline can be used with the CIF, CVF, CCF, CCF double, CGF, CTM\* connector series.**

\* From 13 poles included

**CIF**      **CVF**

**CCF**      **CCF DOUBLE**

**CGF**      **CTM**

**Coding clip**  
CIM-SC1 - Pcs/pack 120

By using these clips, it is possible to polarize CIM, CPM, CGM and CRM male connector series. This is achieved by hooking one or more CIM-SC1 coding clips into the grooves of the male connector and by inserting the CIF-LC1 coding splines into the recesses of the corresponding female connector, in the suitable complementary positions.

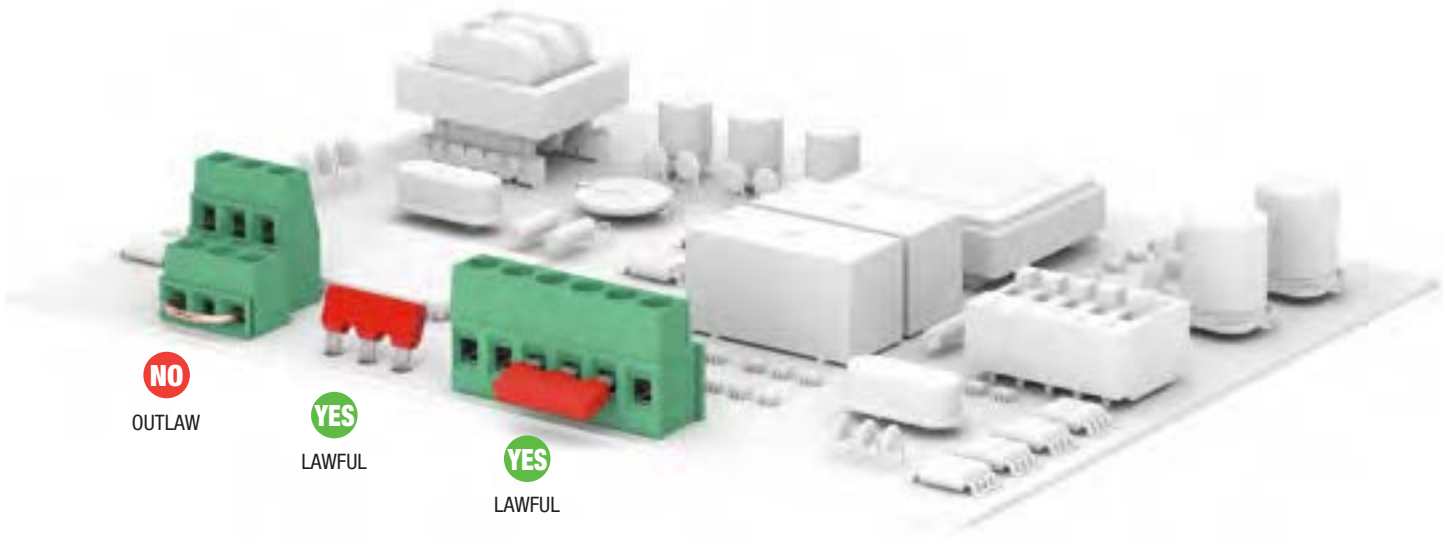
**The CIM-SC1 coding clip can be used with CIM, CPM, CGM and CRM male connector series.**

**CIM**      **CRM**

**CPM**      **CGM**

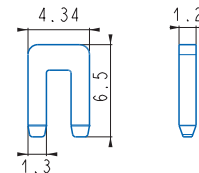
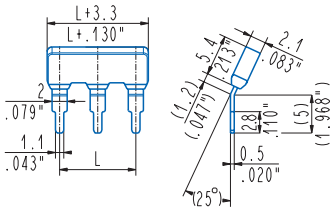


# BRIDGE FOR SHORT CIRCUIT



With Sauro bridges a short circuit between adjacent poles of the terminal blocks and the connectors is obtained, at the same time enabling wiring to be carried out. They can be used as bridges on the PCBs as they have tapered ends. Sauro bridges for short circuit meet the safety and environmental requirements demanded by the strictest international standards. The metallic part is made by copper alloy with a lead free tin treatment surface and the insulating part is made by

PA 6.6 Polyamide which is V0 class self-extinguishing according to UL94. They are available from 2 to 9 poles and it is possible join them together in order to obtain any number of poles. Sauro bridges for short circuit can be supplied already mounted on the products according to the client's design-in.

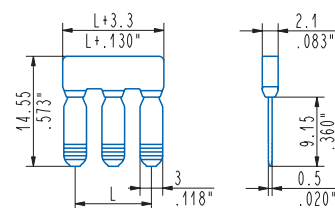
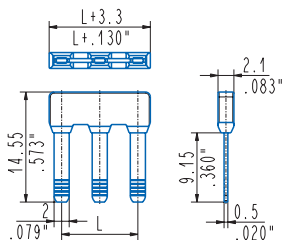


### Bridges for short circuit for rising clamp system

- BSC\_000-OR** - 2 ÷ 9 poles, 5 mm, 5.08 mm / .197", .200" pitch
- BSC\_003-OR** - 2 ÷ 6 poles, 7.5 mm, 7.62 mm / .295", .300" pitch

### Internal bridges for short circuit for MCM series

- MCM-BSC1** - 2 poles, 5 mm / .197"
- MCM-BSC5** - 2 poles, 5.08 mm / .200"
- MCM-BSC3** - 2 poles, 7.5 mm / .295"
- MCM-BSC7** - 2 poles, 7.62 mm / .300"
- MCM-BSC2** - 2 poles, 10 mm / .394"
- MCM-BSC6** - 2 poles, 10.16 mm / .400"



### Bridges for short circuit for spring clamp system

- BSC\_0C0-OR** - 2 ÷ 9 poles, 5 mm, 5.08 mm / .197", .200" pitch
- BSC\_0C3-OR** - 2 ÷ 6 poles, 7.5 mm, 7.62 mm / .295", .300" pitch

### Bridges for short circuit for MCM series

- BSC\_0L1-OR** - 2 ÷ 9 poles, 5 mm / .197" pitch
- BSC\_0L5-OR** - 2 ÷ 9 poles, 5.08 mm / .200" pitch
- BSC\_0L2-OR** - 2 ÷ 5 poles, 10 mm / .394" pitch
- BSC\_0L6-OR** - 2 ÷ 5 poles, 10.16 mm / .400" pitch



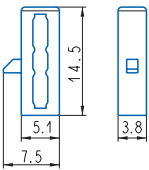

Occluders could be the right solution in order to close the wire entry on screw type terminal block or to impede the plug-header connection. Customer can buy occluders on their own or already inserted in the product according to the customer's configuration. They are made of PA 6.6 Polyamide material, which is:

- phosphorus, dioxins, halogens and antimony trioxide free, all detrimental substances
- resistant to chlorinated solvents
- VO class self-extinguishing according to UL94

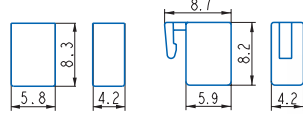

The standard color is green, but it is available also in different colors.

Colors available:

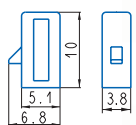
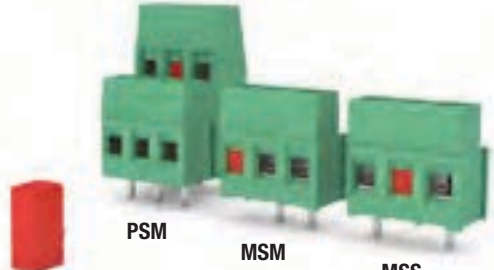
Green similar to RAL 6032, Black similar to RAL 9005, Dark gray similar to RAL 7040, Light gray similar to RAL 7035, White similar to RAL 9001, Blue similar to RAL 5012, Yellow similar to RAL 1018, Orange similar to RAL 2003, Red similar to RAL 3017, Brown similar to RAL 8028

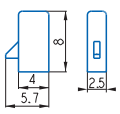

**Occluder**  
**OCL-PSQ-V** - pcs/pack 120  
 The OCL-PSQ-V occluders can be used with the PSQ plurima and MSQ terminal block series.

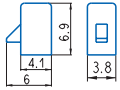

**Occluder**  
**OCL-CIM-V / OCL-CIM-V01** - pcs/pack 120  
 The OCL-CIM-V / OCL-CIM-V01 occluders can be used with the CIM header series.

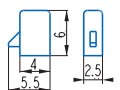

**Occluder**  
**OCL-PSM-V** - pcs/pack 120  
 The OCL-PSM-V occluders can be used with the PSM plurima, MSM and MSS terminal block series.

**Occluder**  
**OCL-MTS-V** - pcs/pack 120  
 The OCL-MTS-V occluders can be used with the MTS terminal block series.

**Occluder**  
**OCL-MSB-V** - pcs/pack 120  
 The OCL-MSB-V occluders can be used with the MSB terminal block and PSB plurima series.

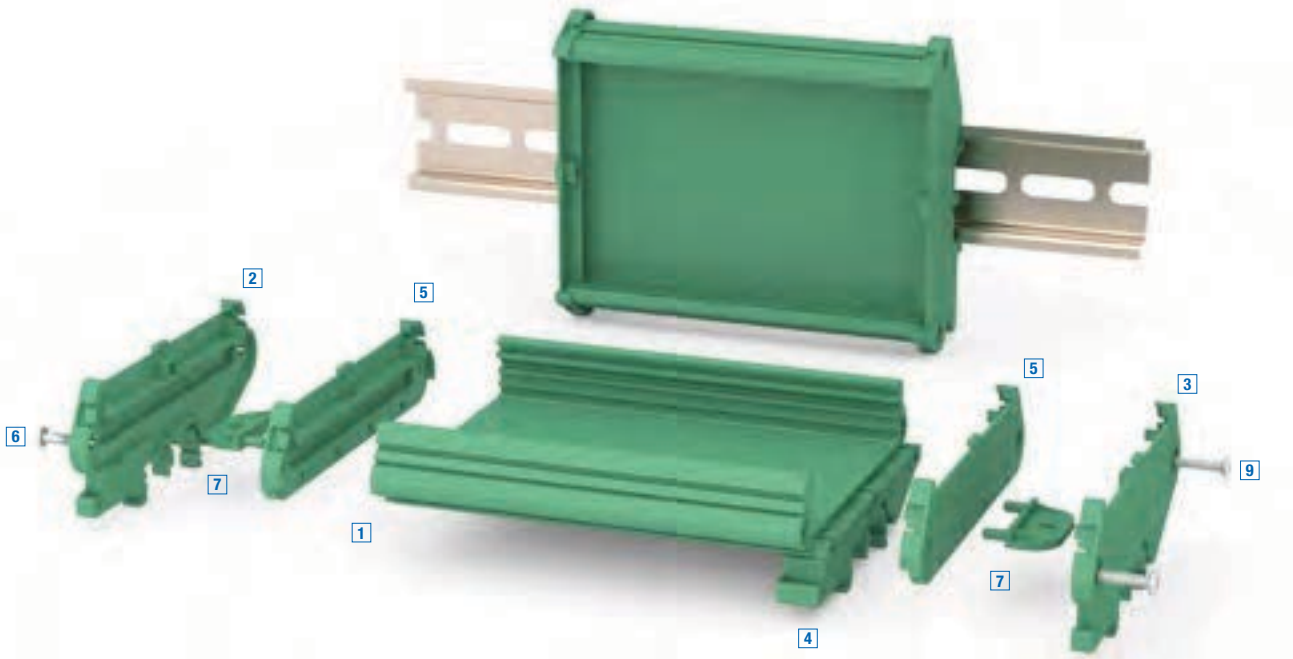
**Occluder**  
**OCL-MTB** - pcs/pack 120  
 The OCL-MTB-V occluders can be used with the MTB terminal block series.



## PCB supports

<b>STC 072</b>	84
<b>STC 107</b>	86
<b>SMC 072</b>	88
<b>SMC 107</b>	90
<b>SRC 175</b>	92
<b>SRC 225</b>	92
<b>SRC 350</b>	93
<b>SRC 450</b>	93





### Functional characteristics

<b>Width of PCB:</b>	68 mm - 72 mm (2.677 in - 2.835 in)
<b>Support Type:</b>	extruded
<b>Standard Colour:</b>	green
<b>Thickness of PCB:</b>	1.6 ÷ 2.8 mm (.063 ÷ .110 in)
<b>Material:</b>	PA6.6 and PVC (UL94-V0)

Description	Part-Number	Pcs / pack
<b>2</b> Left Lateral Element with Rail Hook	STC072TSX0	50
<b>7</b> Bracket for Mounting on the Wall	STC000F000	100
<b>5</b> Head Without Rail Hook	STC072T000	100
<b>4</b> DIN Rail Hook	STC072P011	50
<b>1</b> Central Body	STC072S_	50
	STC0722000	10
	STC072L_	100
<b>3</b> Right Lateral Element with Rail Hook	STC072TDX0	50
<b>6</b> Screw for Head Fastening	STC000V015	100
<b>Screw for Head Fastening</b>	STC000V025	100
<b>8</b> Size of STD Adapter for 68 mm (2.677 in) Boards	STC072A026	50

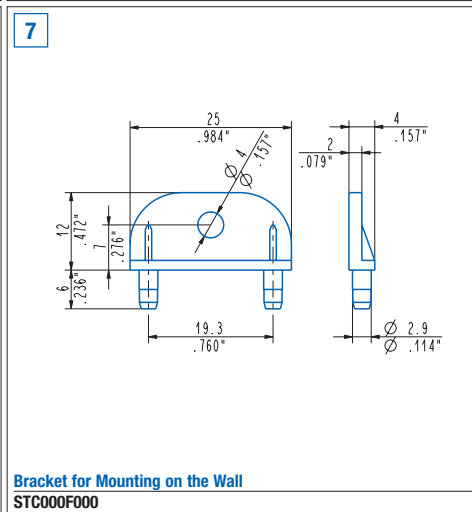
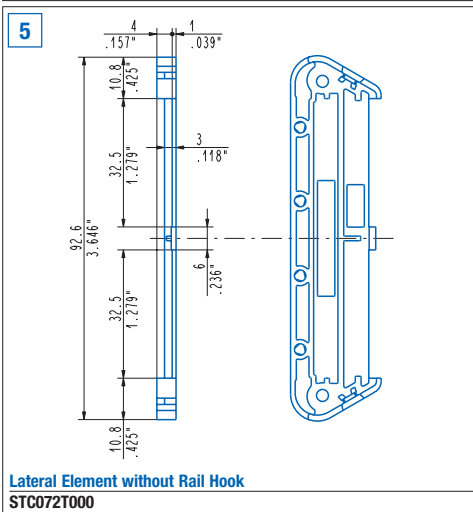
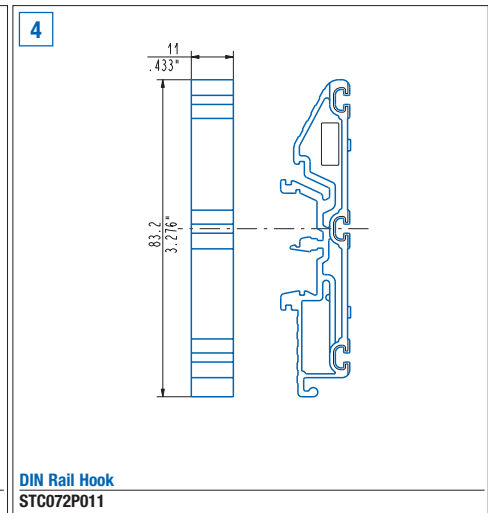
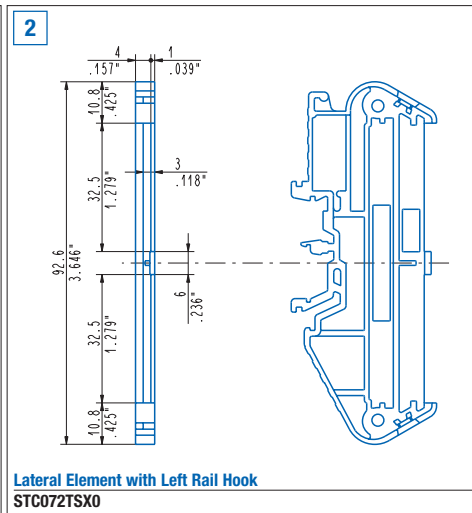
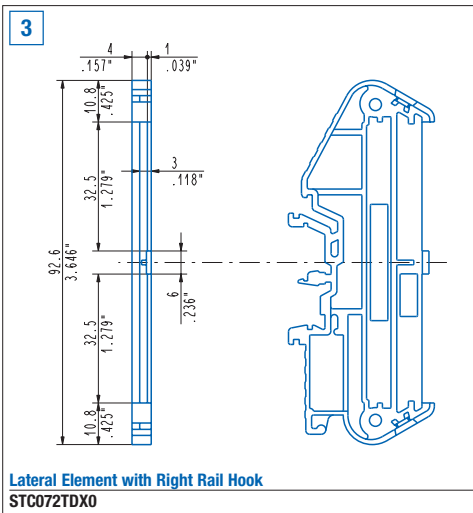
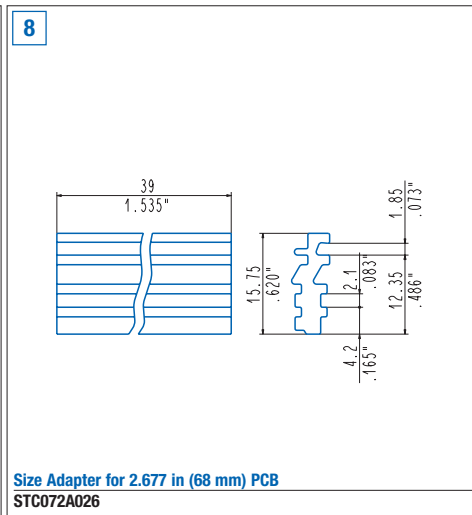
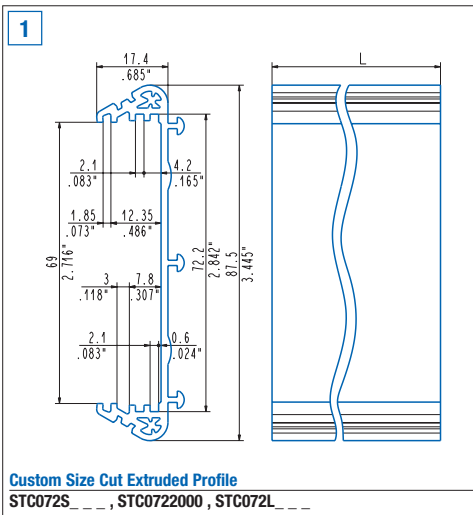
### 1

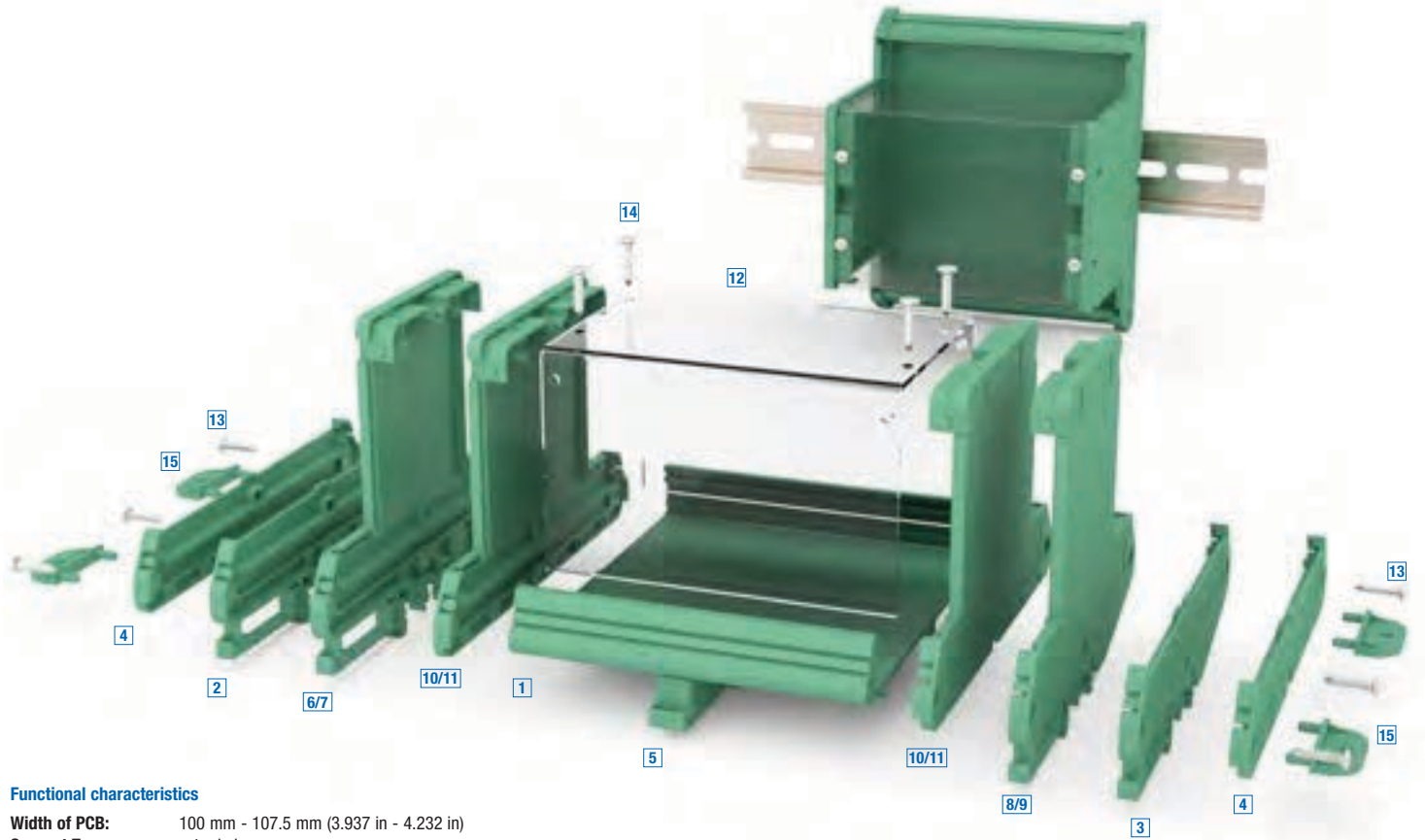
#### Custom Sized Cut Profile

For a Custom Sized Cut Profile, the length of the Central Body must be equal to the length of the PCB minus 3.5 mm (.138 inch). It's advised to round off the figure to the higher whole number. The length of the support, including the Lateral Elements, is equal to the length of the Profile plus 6 mm (.236 inch).

#### Example

For PCB		Cut Profile sizes L (1)		Length of support con aggancio guida DIN		Part-Number	Pcs / pack
(mm)	(in)	(mm)	(in)	(mm)	(in)		
20,00	.787	16,50	.650	22,50	.886	STC072S016	50
31,25	1.230	27,75	1.093	33,75	1.329	STC072S028	50
42,50	1.673	39,00	1.535	45,00	1.772	STC072S039	50
53,75	2.116	50,25	1.978	56,25	2.215	STC072S050	50
65,00	2.559	61,50	2.421	67,50	2.657	STC072S061	50
76,25	3.002	72,75	2.864	78,75	3.100	STC072S073	50
87,50	3.445	84,00	3.307	90,00	3.543	STC072S084	50
98,75	3.888	95,25	3.750	101,25	3.986	STC072S095	50
110,00	4.331	106,50	4.193	112,50	4.429	STC072S106	50
121,25	4.774	117,75	4.636	123,75	4.872	STC072S118	50
132,50	5.217	129,00	5.079	135,00	5.315	STC072S129	50
143,75	5.659	140,25	5.522	146,25	5.758	STC072S140	50
155,00	6.102	151,50	5.965	157,50	6.201	STC072S151	50
166,25	6.545	162,75	6.407	168,75	6.644	STC072S163	50
177,50	6.988	174,00	6.850	180,00	7.087	STC072S174	50
-----	-----	Profile for PCB with L = 2 m (78.740 in)		-----	-----	STC0722000	10
L (PCB)	L (PCB)	L(5) = L (PCB) -3,5	L = L (PCB) -1,138	L + 6	L +.236	STC072L_ _ _	100





### Functional characteristics

<b>Width of PCB:</b>	100 mm - 107.5 mm (3.937 in - 4.232 in)
<b>Support Type:</b>	extruded
<b>Standard Colour:</b>	green
<b>Thickness of PCB:</b>	1.6 ÷ 2.8 mm (.063 ÷ .110 in)
<b>Material:</b>	PA6.6 and PVC (UL94-V0)

Description pack	Part-Number	Pcs /		Pcs /	
2 Left Lateral Element with Rail Hook	STC107TSX0	50	8 Right High Lateral Element with Rail Hook	STC107TD60	25
3 Right Lateral Element with Rail Hook	STC107TDX0	50	9 Right High Lateral Element with Rail Hook	STC107TD73	25
4 Head Without Rail Hook	STC107T000	100	10 High Lateral Element Without Rail Hook	STC107T060	100
5 DIN Rail Hook	STC107P011	100	11 High Lateral Element Without Rail Hook	STC107T073	100
1 Central Body	STC107S__	50	15 Bracket for Mounting on the Wall	STC000F000	100
	STC1072000	10	16 Size of STD Adapter for 3.937 in (100 mm) PCB	STC107A039	50
	STC107L__	100	12 Protection Cover	STC107C__	50
13 Screw for Head Fastening (L= 15 mm)	STC000V015	100		STC107D__	50
13 Screw for Head Fastening (L= 25 mm)	STC000V025	100			
14 Screw for Cover Fastening (L= 15 mm)	STC000VC15	100			
6 Left High Lateral Element with Rail Hook	STC107TS60	25			
7 Left High Lateral Element with Rail Hook	STC107TS73	25			

### 1

#### Custom Sized Cut Profile

For a Custom Sized Cut Profile, the length of the Central Body must be equal to the length of the PCB minus 3.5 mm (.138 inch). It's advised to round off the figure to the higher whole number. The length of the support, including the Lateral Elements, is equal to the length of the Profile plus 6 mm (.236 inch).

#### Example

For PCB		Cut Profile sizes L		Support Length		Part-Number	Pcs / pack
(mm)	(in)	(mm)	(in)	(mm)	(in)		
38.50	1.516	35,00	1.378	41.00	1.614	STC107S035	50
55.00	2.165	51,50	2.028	57.50	2.264	STC107S051	50
73.50	2.894	70,00	2.756	76.00	2.992	STC107S070	50
-----	-----	Profile for PCB with L = 2 m (78.740 in)		-----	-----	STC1072000	10
L + 3.5	L +.137	Custom		L + 6	L +.236	STC107L_ _ _	100

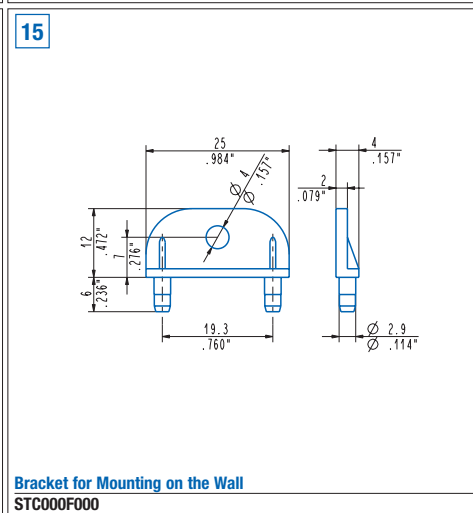
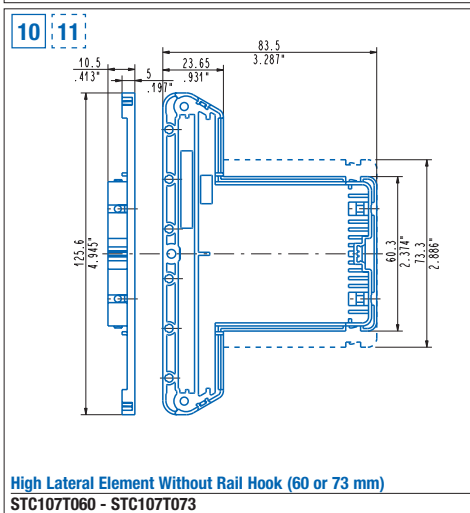
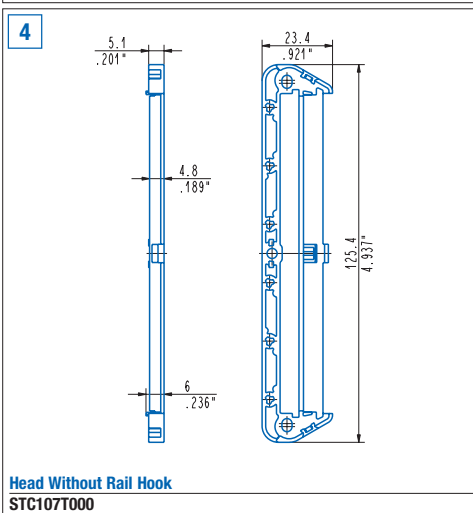
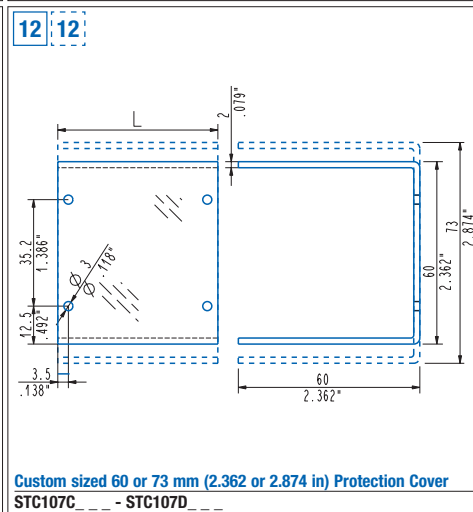
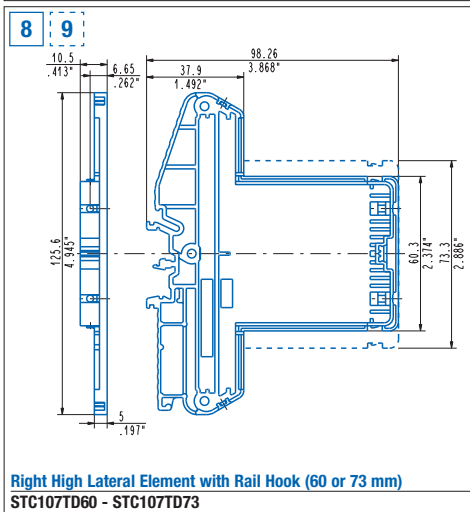
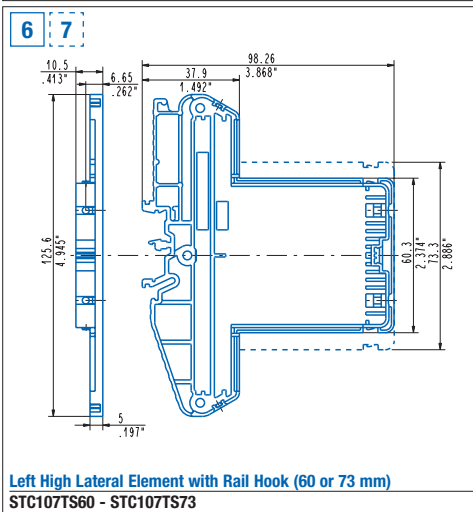
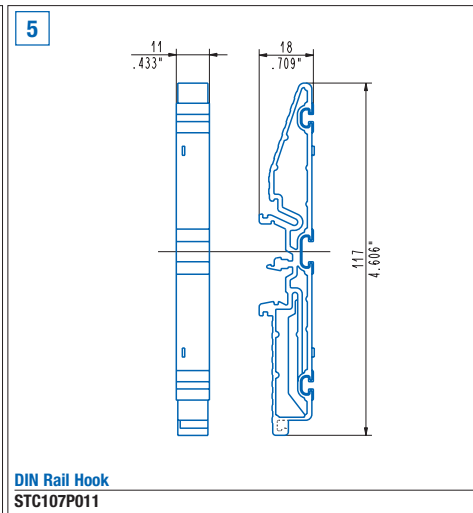
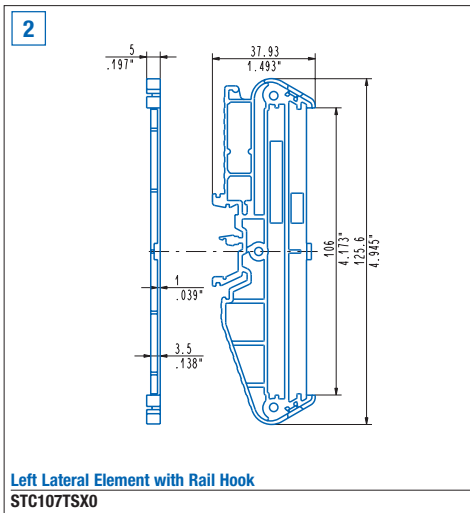
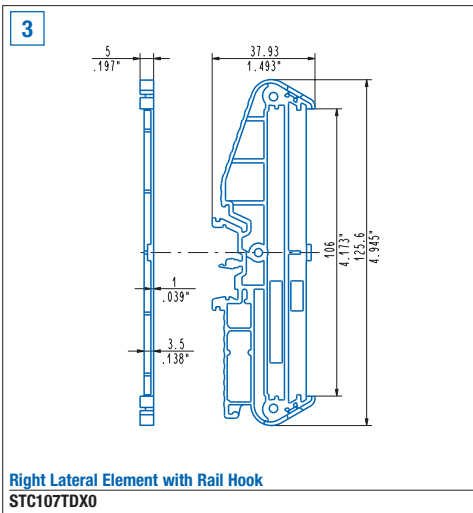
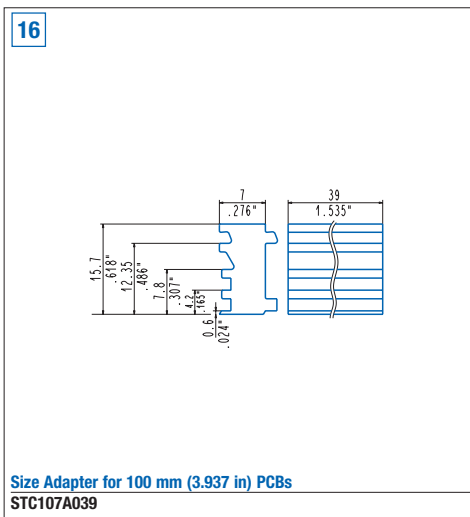
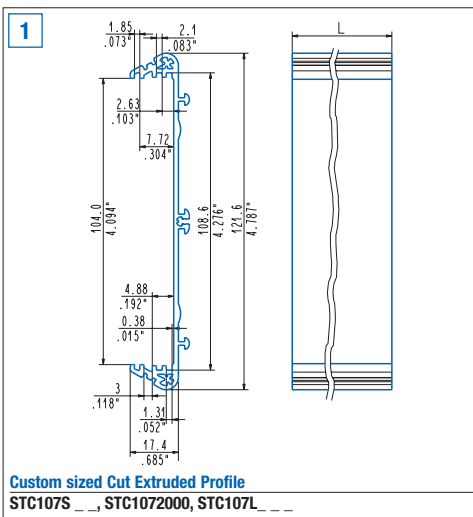
### 12

#### Custom sized Protection Cover

For Custom sized Protection Cover, length of the piece must be equal to the corresponding length of the Profile, that is the length of the PCB minus 3.5 mm (.137 in). It's advised to round off the figure to the higher whole number. The Length of the Support, including the Lateral Elements, is equal to the Length of the Profile plus 6 mm (.236 in).

#### Example

L		Part-Number	Pcs / pack	For PCB		Support Length	
				(mm)	(in)	(mm)	(in)
Custom size	for 60 mm (2.362 in) Protection Cover	STC107C__	50	L + 3.5	L +.137	L + 6	L +.236
70 mm (2.756 in)	for 60 mm (2.362 in) Protection Cover	STC107C070	50	73.5	2.893	76	2.992
Custom size	for 73 mm (2.874 in) Protection Cover	STC107D__	50	L + 3.5	L +.137	L + 6	L +.236
70 mm (2.756 in)	for 73 mm (2.874 in) Protection Cover	STC107D070	50	73.5	2.893	75	2.992





### Functional characteristics

<b>Width of PCB:</b>	72 mm (2.835 in)
<b>Support Type:</b>	modular
<b>Standard Colour:</b>	green
<b>Thickness of PCB:</b>	.063 in (1.6 mm)
<b>Material:</b>	PA6.6 (UL94-V0)

Description	Part-Number	Pcs / pack
4 Lateral Element with Rail Hook	SMC072T011	50
5 DIN Rail Hook	SMC072P020	50
1 Base Element	SMC072S045	50
2 Base Element	SMC072S022	50
3 Base Element	SMC072S011	50
6 Complete Module (12.5 mm for 11 mm PCB)	SMC072T013	50

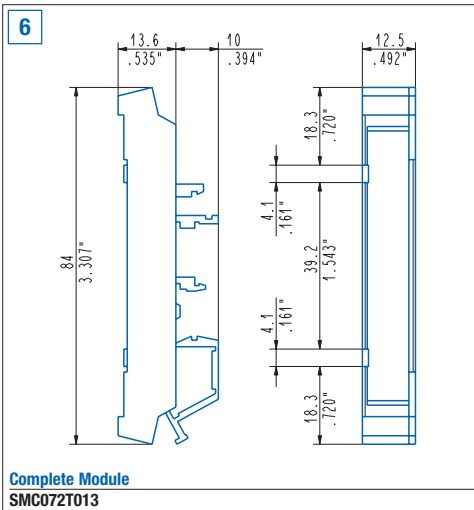
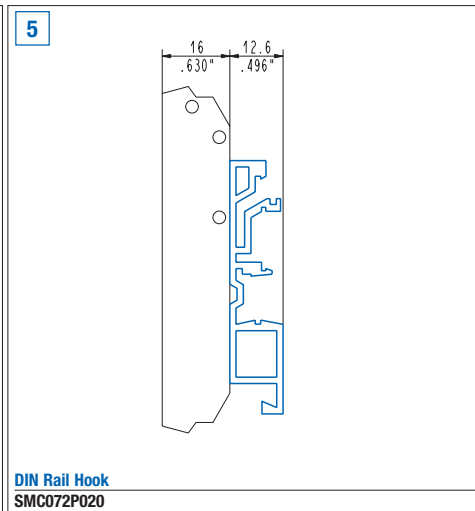
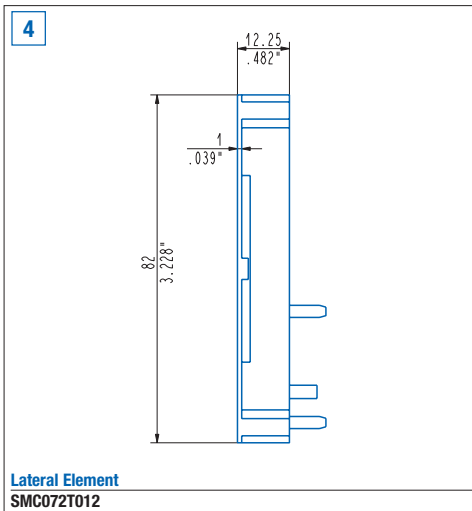
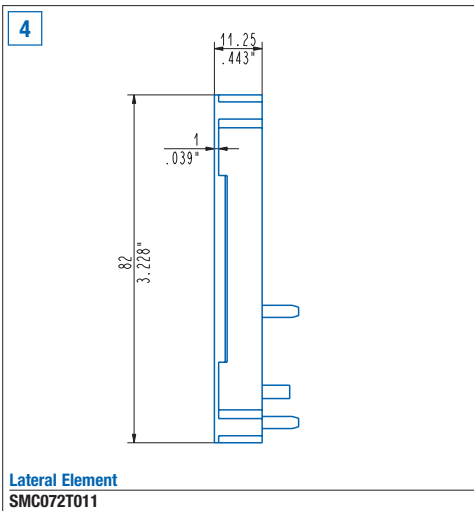
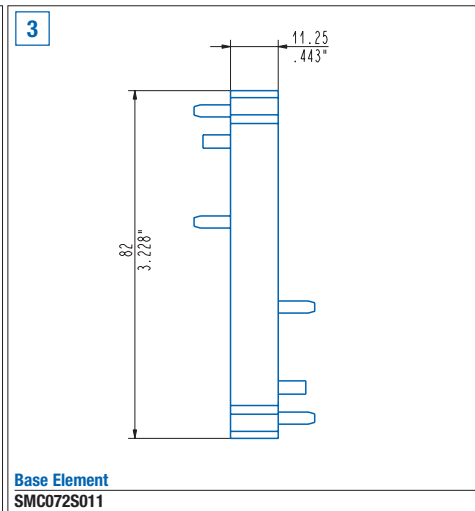
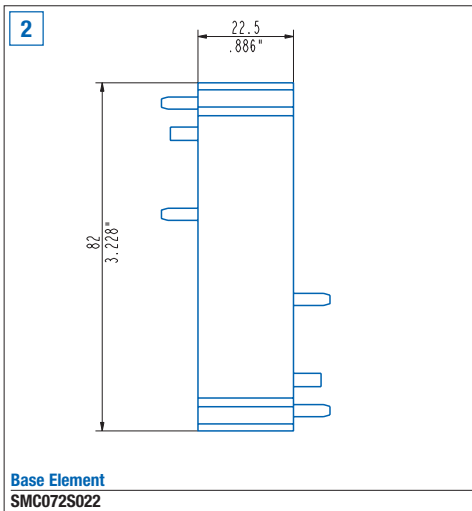
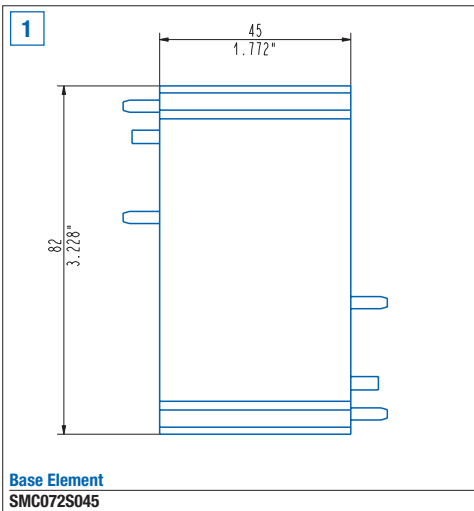
### Modular Supports for 72 mm (2.835 in) Wide Boards

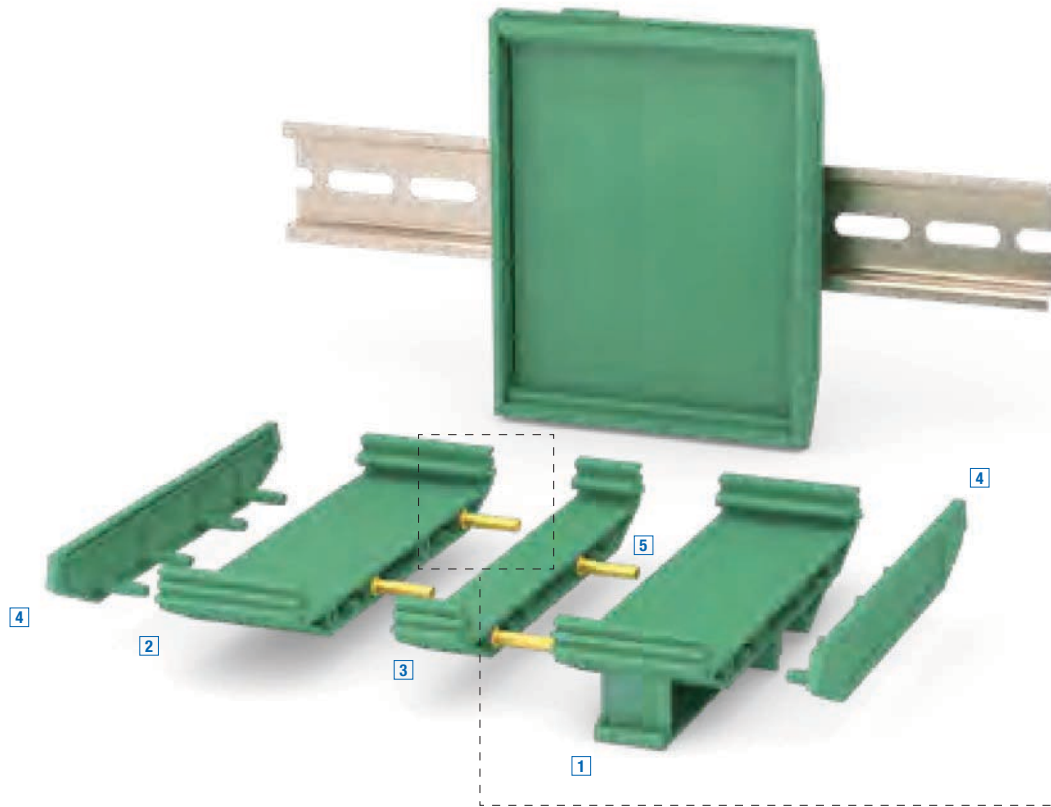
Base Elements with two Lateral Elements and one or two DIN Rail Hooks are combined together in order to obtain PCB Supports according to the following table. For 11 mm (.433 in) wide PCBs, a single Complete Module is provided by assembling two parts together.

The following table shows the configuration of support elements and the corresponding total length of the assembled support and the length of the PCB.

Length of PCB		Length of support		Lateral Element	Base Element	Base Element	Base Element	DIN Rail Hook	Complete Module
(mm)	(in)	(mm)	(in)	SMC072T011	SMC072S011	SMC072S022	SMC072S045	SMC072P020	SMC072T013
11,00	.433	12,50	.492						1
20,00	.787	22,50	.886	2				1	
31,25	1.230	33,75	1.329	2	1			1	
42,50	1.673	45,00	1.772	2		1		2	
53,75	2.116	56,25	2.215	2	1	1		2	
65,00	2.559	67,50	2.657	2			1	2	
76,25	3.002	78,75	3.100	2	1		1	2	
87,50	3.445	90,00	3.543	2		1	1	2	
98,75	3.888	101,25	3.986	2	1	1	1	2	
110,00	4.331	112,50	4.429	2			2	2	
121,25	4.774	123,75	4.872	2	1		2	2	







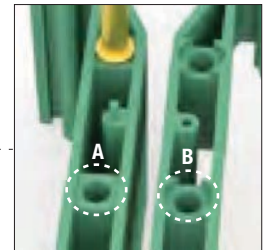
### Functional characteristics

**Width of PCB:** 107.5 mm (4.232 in)  
**Support Type:** modular  
**Standard Colour:** green  
**Thickness of PCB:** 1.6 mm (.063 in)  
**Material:** PA6.6 (UL94-V0)

### Description

**4** Lateral Element  
**1** Base Element with Hook  
**2** Base Element  
**3** Base Element  
**5** Stiffening Copper Alloy Element

Description	Part-Number	Pcs / pack
4 Lateral Element	SMC107T000	100
1 Base Element with Hook	SMC107P035	50
2 Base Element	SMC107S035	50
3 Base Element	SMC107S016	50
5 Stiffening Copper Alloy Element	SMC107S00T	100



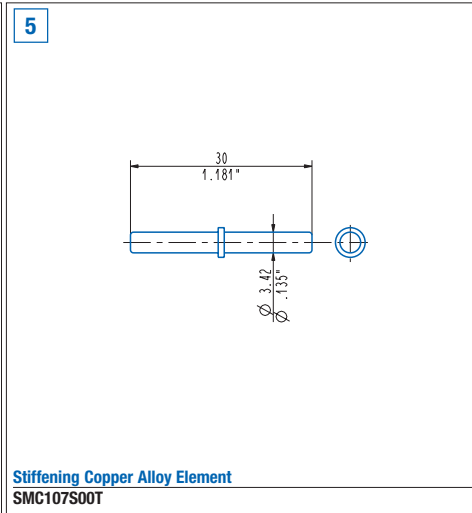
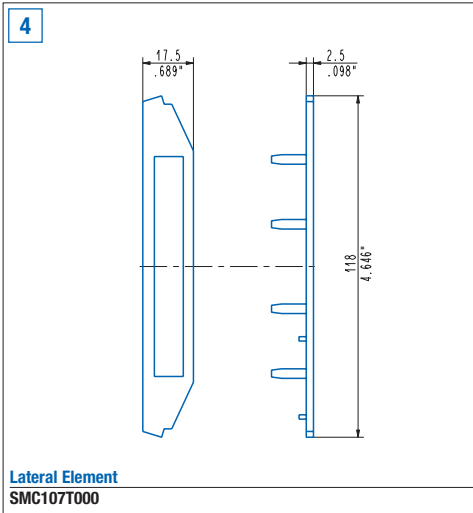
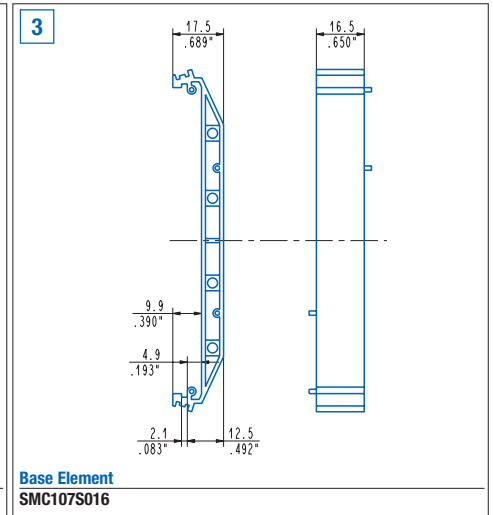
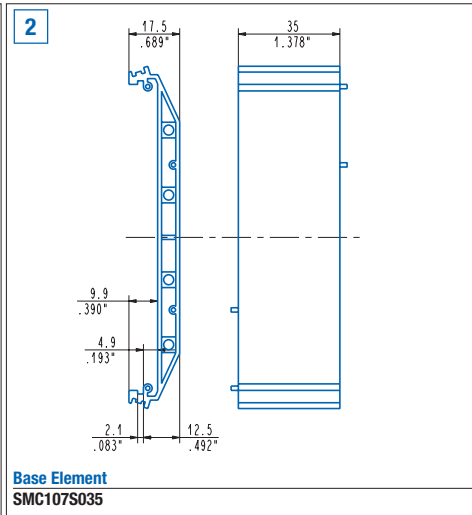
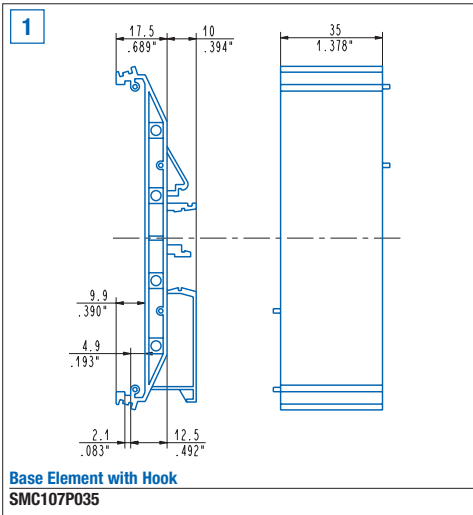
**Attention,** hook the base elements by fastening side **A** (filled) with side **B** (empty).

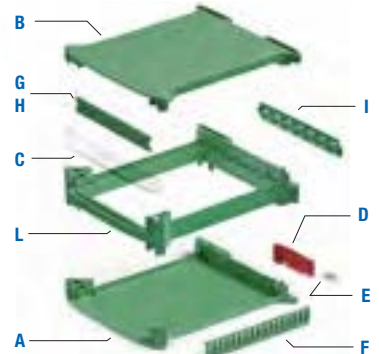
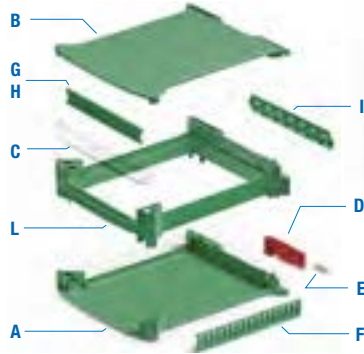
### Modular Supports for 107.5 mm (4.232 in) Wide Boards

**Base Elements** and **Lateral Elements** are combined together to obtain PCB Supports according to the table on the next page. At least one of the **Base Elements** must be provided with a **Hook**. 2 to 4 **Stiffening Copper Alloy Elements** must be inserted between any two **Base Elements**. For a correct mounting of the PCB Support, if an **SMC107S016 Base Element** is used, it **must be positioned between two SMC107S035 or SMC107P035 Base Elements**.

The following table shows the configuration of support elements and the corresponding total length of the assembled support and the length of the PCB.

Length of PCB		Length of support		Lateral Element	Base Element	Base Element	Base Element With Hook	Stiffening Copper Alloy Element
(mm)	(in)	(mm)	(in)	SMC107T000	SMC107S016	SMC107S035	SMC107P035	SMC107S00T
38.50	1.516	40.00	1.575	2			1	
55.00	2.165	56.50	2.224	2	1		1	
73.50	2.894	75.00	2.953	2			2	2 ÷ 4
90.00	3.543	91.50	3.602	2	1		2	4
108.50	4.272	110.00	4.331	2		1	2	4 ÷ 8
125.00	4.921	126.50	4.980	2	1	1	2	6 ÷ 8
143.50	5.650	145.00	5.709	2		2	2	6 ÷ 12
160.00	6.299	161.50	6.358	2	1	2	2	8 ÷ 12
178,50 mm	7.028 in	180,00 mm	7.087 in	2		3	2	8 ÷ 16





### Functional characteristics

**Standard colour:** green (-V)  
**Optional colour:** black (N), grey (G)  
**Material:** PC/ABS (UL94 - V0) blend  
**Dimensions:** 101 x 17.5 x 120 mm  
**Dimensions of PCB:** 77 x 104 mm  
**Thickness of PCB:** 1.6 mm  
**Number of poles (5 and 5.08mm pitch):** 17 each side  
**Maximum height of components:** 10 mm

### Code and description of components

	kit / pack
<b>SRC1750000-V</b>	50
Complete kit consisting of a base (A), a top (B), a transparent front cover (C), a hook (D) and a spring (E)	
<b>A SRC0000125-V</b>	12.5 mm Base
<b>B SRC0000050-V</b>	5 mm Top
<b>C SRC000012S</b>	12 mm Transparent Front Cover
<b>D SRC000000G-R</b>	Hook
<b>E SRC000000M</b>	Spring

### Accessories

<b>F SRC000000C-V</b>	Breakable side spit cover
<b>G SRC000012P-V</b>	12 mm green Front panel
<b>H SRC000012P-T</b>	12 mm Transparent red Front panel
<b>I SRC000000A-V</b>	Internal Adapter
<b>L SRC000000D-V</b>	Spacer

### Functional characteristics

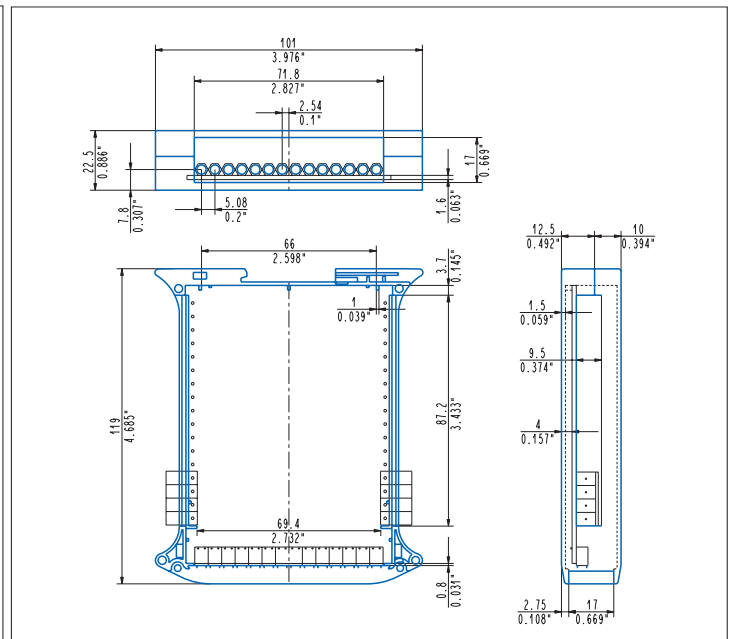
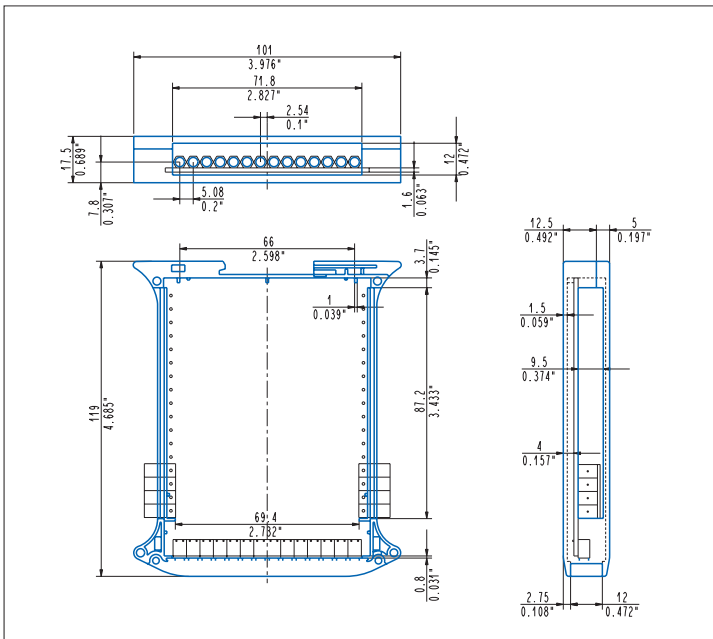
**Standard colour:** green (-V)  
**Optional colour:** Black (N), Grey (G)  
**Material:** PC/ABS (UL94 - V0) blend  
**Dimensions:** 101 x 22.5 x 120 mm  
**Dimensions of PCB:** 77 x 104 mm  
**Thickness of PCB:** 1.6 mm  
**Number of poles (5 and 5.08mm pitch):** 17 each side  
**Maximum height of components:** 15 mm

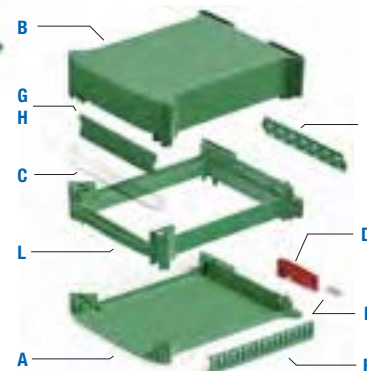
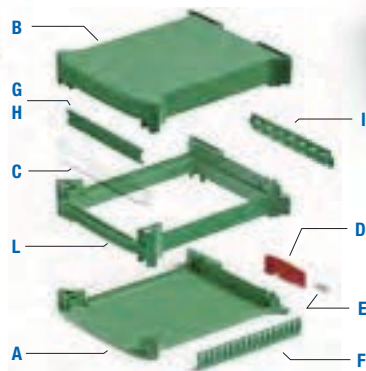
### Code and description of components

	kit / pack
<b>SRC2250000-V</b>	50
Complete kit consisting of a base (A), a top (B), a transparent front cover (C), a hook (D) and a spring (E)	
<b>A SRC0000125-V</b>	12.5 mm Base
<b>B SRC0000100-V</b>	10 mm Top
<b>C SRC000017S</b>	17 mm Transparent Front Cover
<b>D SRC000000G-R</b>	Hook
<b>E SRC000000M</b>	Spring

### Accessories

<b>F SRC000000C-V</b>	Breakable side spit cover
<b>G SRC000017P-V</b>	17 mm green Front panel
<b>H SRC000017P-T</b>	17 mm Transparent red Front panel
<b>I SRC000000A-V</b>	Internal Adapter
<b>L SRC000000D-V</b>	Spacer





### Functional characteristics

**Standard colour:** green (-V)  
**Optional colour:** black (N), Grey (G)  
**Material:** PC/ABS (UL94 – V0) blend  
**Dimensions:** 101 x 35.0 x 120 mm  
**Dimensions of PCB:** 77 x 104 mm  
**Thickness of PCB:** 1.6 mm  
**Number of poles (5 and 5.08mm pitch):** 17 each side  
**Maximum height of components:** 27.5 mm

### Code and description of components

**SRC3500000-V** Complete kit consisting of a base (A), a top (B), a transparent front cover (C), a hook (D) and a spring (E)  
**A SRC0000125-V** 12.5 mm Base  
**B SRC0000225-V** 22.5 mm Top  
**C SRC000017S** 17 mm Transparent Front Cover  
**D SRC000000G-R** Hook  
**E SRC000000M** Spring

### Accessories

**F SRC000000C-V** Breakable side spit cover  
**G SRC000017P-V** 17 mm green Front panel  
**H SRC000017P-T** 17 mm Transparent red Front panel  
**I SRC000000A-V** Internal Adapter  
**L SRC000000D-V** Spacer

### Functional characteristics

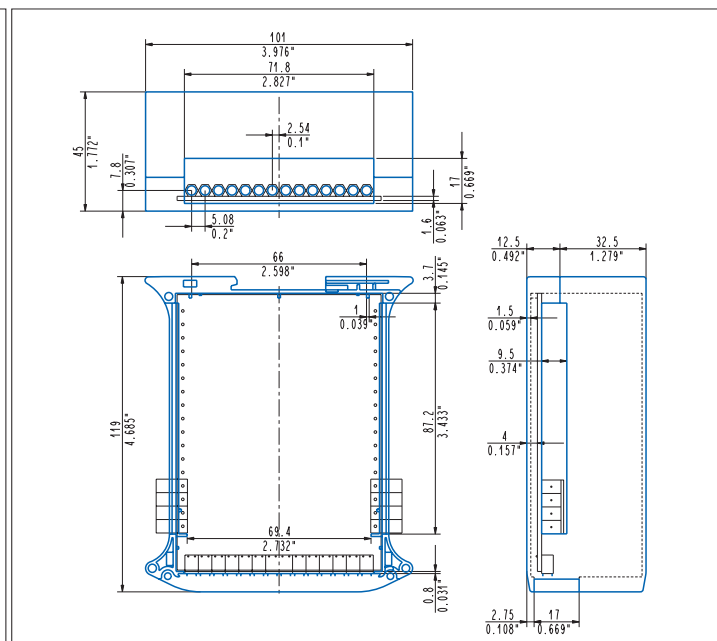
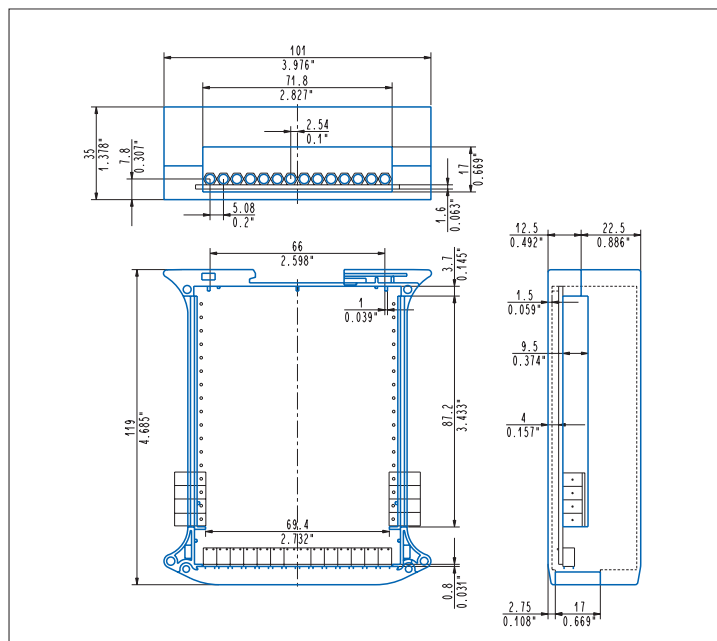
**Standard colour:** green (-V)  
**Optional colour:** Black (N), Grey (G)  
**Material:** PC/ABS (UL94 – V0) blend  
**Dimensions:** 101 x 45.0 x 120 mm  
**Dimensions of PCB:** 77 x 104 mm  
**Thickness of PCB:** 1.6 mm  
**Number of poles (5 and 5.08mm pitch):** 17 each side  
**Maximum height of components:** 37.5 mm

### Code and description of components

**SRC4500000-V** Complete kit consisting of a base (A), a top (B), a transparent front cover (C), a hook (D) and a spring (E)  
**A SRC0000125-V** 12.5 mm Base  
**B SRC0000325-V** 32.5 mm Top  
**C SRC000017S** 17 mm Transparent Front Cover  
**D SRC000000G-R** Hook  
**E SRC000000M** Spring

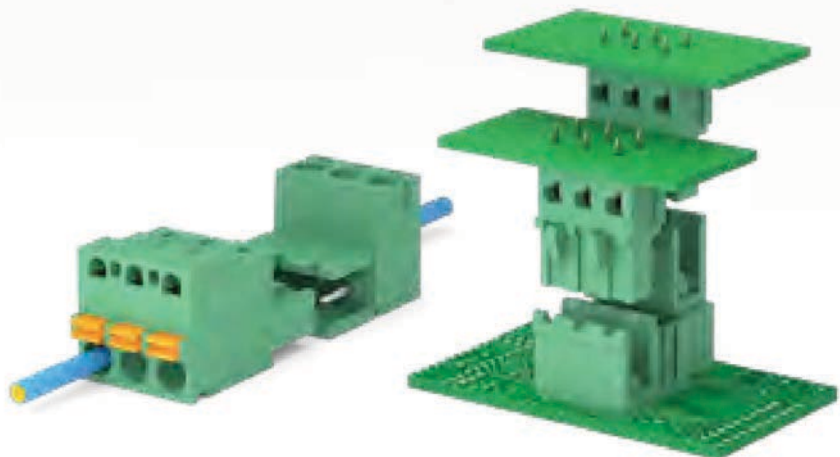
### Accessories

**F SRC000000C-V** Breakable side spit cover  
**G SRC000017P-V** 17 mm green Front panel  
**H SRC000017P-T** 17 mm Transparent red Front panel  
**I SRC000000A-V** Internal Adapter  
**L SRC000000D-V** Spacer

































# Utilities

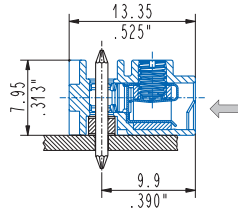
<b>COMPATIBILITY OF CONNECTORS</b>	95
<b>CONNECTORS COMBINATIONS</b>	96
<b>SOLDERING PROFILE (WAVE AND REFLOW)</b>	102
<b>HOW TO ORDER</b>	104
<b>PAD PRINTING</b>	108
<b>PACKAGING</b>	109
<b>BY THE LAW</b>	110



# COMPATIBILITY OF CONNECTORS

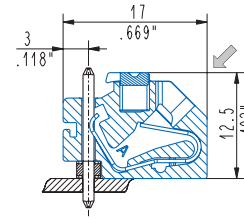
														
		CXF	CSF	CLF	CHF	CHF D.	CTF	CKF	CBF	CIF	CVF	CCF	CCF D.	CGF
	<b>CSM</b>	✓ 01 Page 96	✓ 02 Page 96											
	<b>CSMH</b>	✓ 01 Page 96	✓ 02 Page 96											
	<b>CSMD</b>	✓ 01 Page 96	✓ 02 Page 96											
	<b>CLMH_S</b>			✓ 03 Page 96		✓ 08 Page 97								
	<b>CLMH_0</b>				✓ 04 Page 96									
	<b>CTM</b>						✓ 05 Page 96	✓ 06 Page 97	✓ 07 Page 97					
	<b>CTMH</b>						✓ 05 Page 96	✓ 06 Page 97	✓ 07 Page 97					
	<b>CTM D.</b>						✓	✓	✓					
	<b>CTMH D.</b>						✓	✓	✓					
	<b>CIM</b>									✓ 09 Page 97	✓ 18 Page 98	✓ 21 Page 99	✓ 13 Page 98	⊗ 25 Page 100
	<b>CIMH</b>									✓ 09 Page 97	✓ 18 Page 98	✓ 21 Page 99	✓ 13 Page 98	⊗ 25 Page 100
	<b>CPM H.</b>									✓	✓	✓		⊗
	<b>CPM</b>									✓ 10 Page 97	✓ 19 Page 98	✓ 22 Page 99		⊗ 26 Page 101
	<b>CPMH</b>									✓ 10 Page 97	✓ 19 Page 98	✓ 22 Page 99		⊗ 26 Page 101
	<b>CRM</b>									✓ 11 Page 97	✓ 20 Page 99	✓ 23 Page 99		⊗ 27 Page 101
	<b>CIMH N.</b>									✓ 12 Page 98	✓	✓	✓	⊗
	<b>CGM</b>									⊗ 14 Page 98	⊗ 15 Page 98	⊗ 16 Page 98	⊗ 17 Page 98	✓ 24 Page 99

## 01 CXF + CSM/CSMH/CSMD



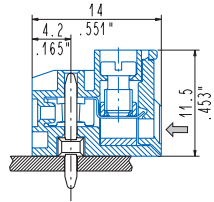
CXF\_091 + CSM

## 04 CHF + CLMH

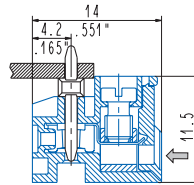


CHF\_008 + CLMH\_0

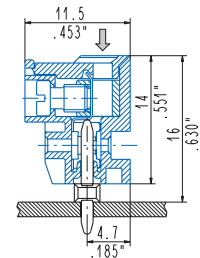
## 02 CSF + CSM/CSMH



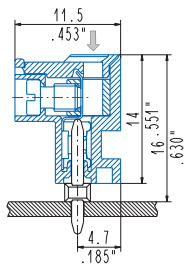
CSF\_00\_/CSF\_0U\_ + CSM



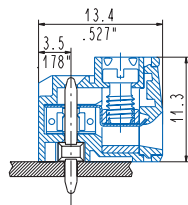
CSF\_00\_/CSF\_0U\_ + CSM



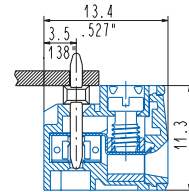
CSF\_00\_/CSF\_0U\_ + CSM



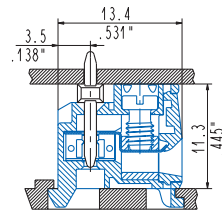
CSF\_01\_ + CSM



CSF\_0J\_ + CSM

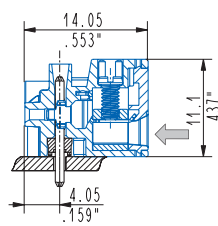


CSF\_0F\_ + CSM

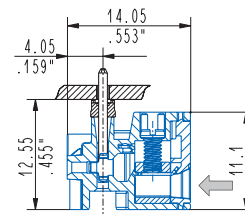


CSF\_0S\_ + CSM

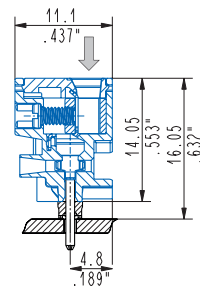
## 03 CLF + CLMH



CLF\_0U8 + CLMH\_S

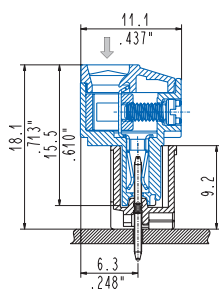


CLF\_0U8 + CLMH\_S

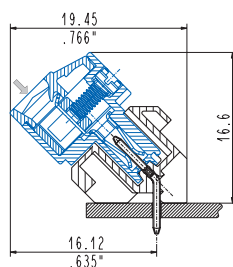


CLF\_0U8 + CLMH\_S

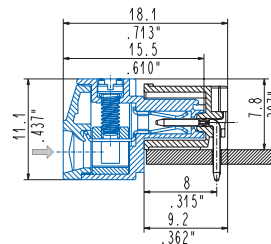
## 05 CTF + CTM/CTMH



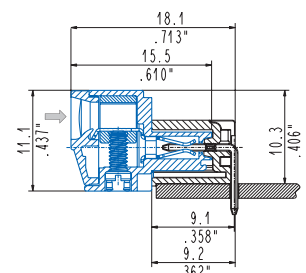
CTF + CTM\_0



CTF + CTMH\_4



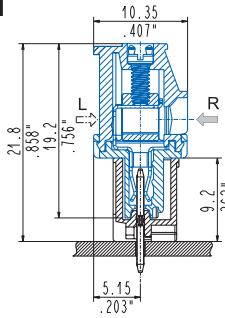
CTF + CTM\_9



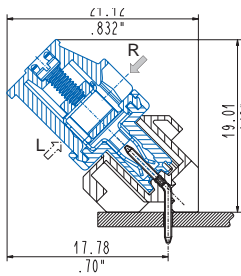
CTF + CTMH\_5



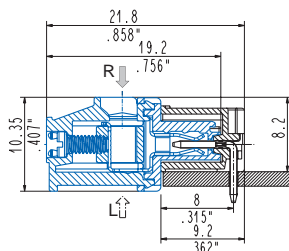
## 06 CKF + CTM/CTHM



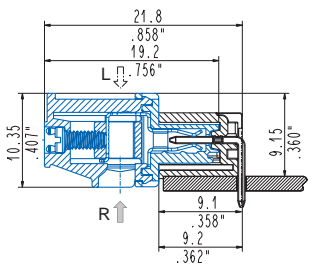
CKF + CTM\_0



CKF + CTMH\_4

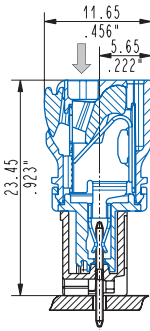


CKF + CTM\_9



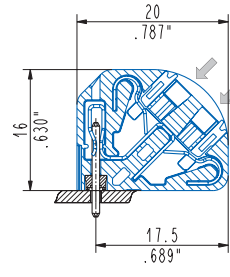
CKF + CTMH\_5

## 07 CBF + CTM/CTMH



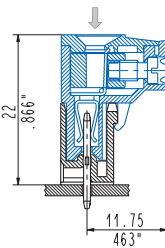
CBF\_OR8 + CTM

## 08 CHF Double + CLMH

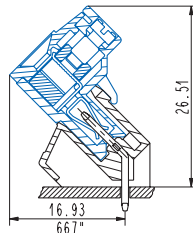


CHF\_D08 + CLMH\_S

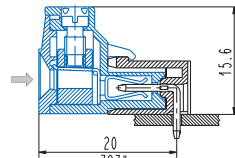
## 09 CIF + CIM/CIMH



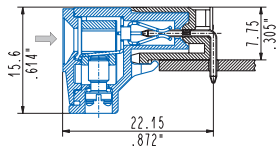
CIF + CIM\_0



CIF + CIM\_4

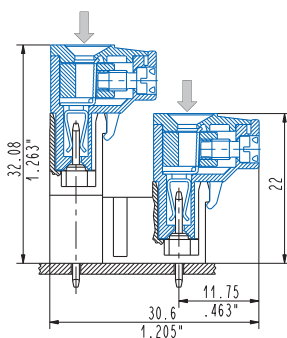


CIF + CIM\_9

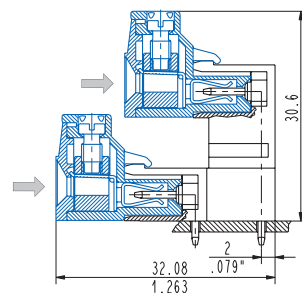


CIF + CIM\_5

## 10 CIF + CPM/CPMH

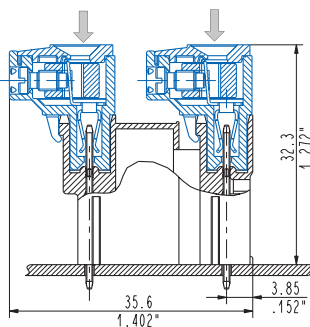


CIF + CPM\_0

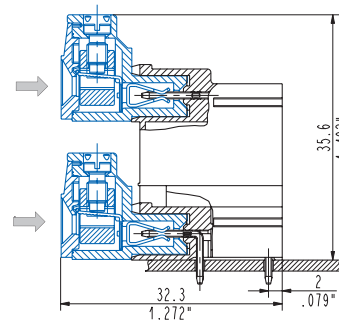


CIF + CPM\_9

## 11 CIF + CRM

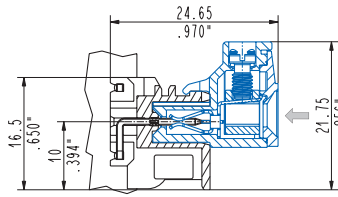


CIF + CRM\_0



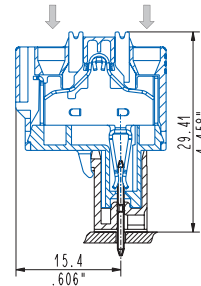
CIF + CRM\_9

## 12 CIMH Normo + CIF



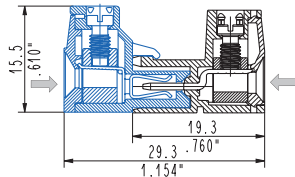
CIMH\_NR1 + CIF

## 13 CCF Double + CIM/CIMH



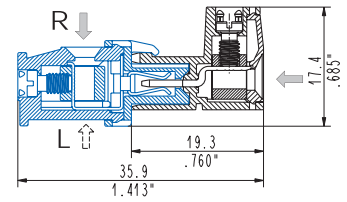
CCF\_DO1 + CIM

## 14 CIF + CGM - WIRE TO WIRE



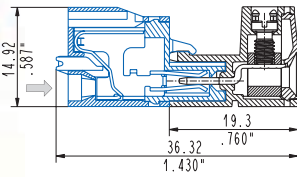
CIF\_OM1 + CGM

## 15 CVF + CGM - WIRE TO WIRE



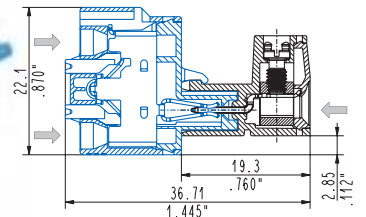
CVF\_OM1 + CGM

## 16 CCF + CGM - WIRE TO WIRE



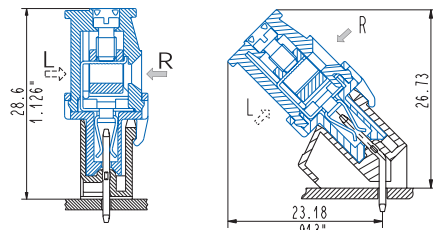
CCF\_O01 + CGM

## 17 CCF Double + CGM - WIRE TO WIRE



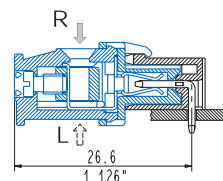
CCF\_DO1 + CGM

## 18 CVF + CIM/CIMH

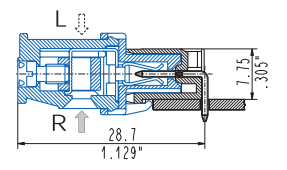


CVF + CIM\_0

CVF + CIM\_4

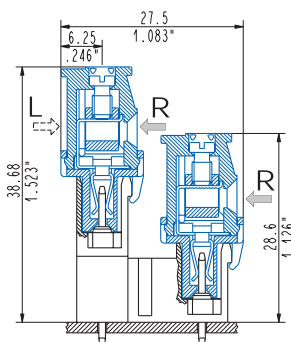


CVF + CIM\_9

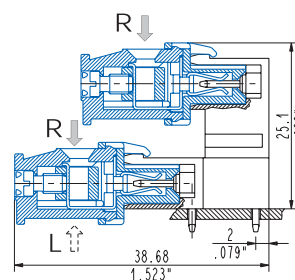


CVF + CIM\_5

## 19 CVF + CPM/CPMH

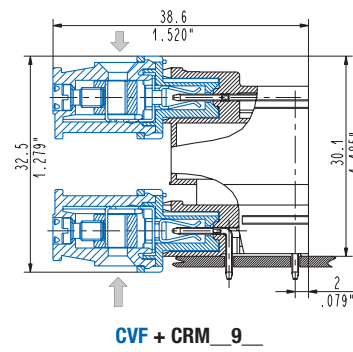
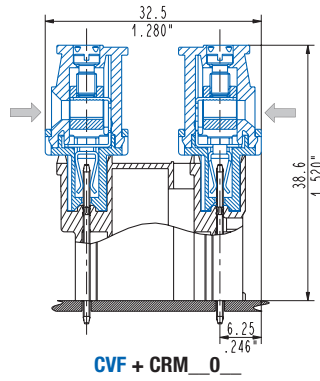


CVF + CPM\_0

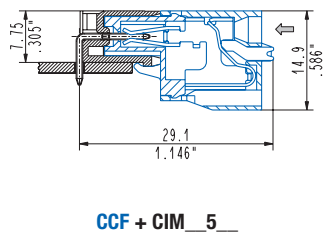
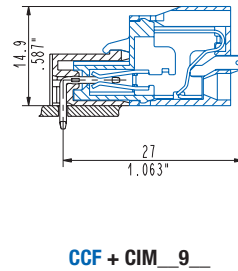
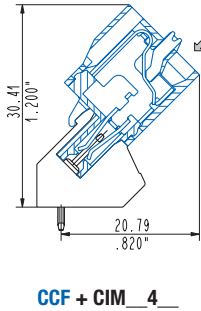
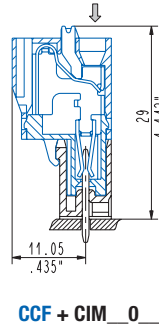


CVF + CPM\_9

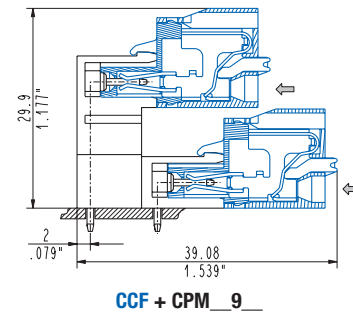
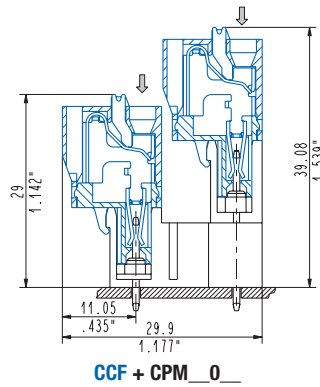
## 20 CVF + CRM



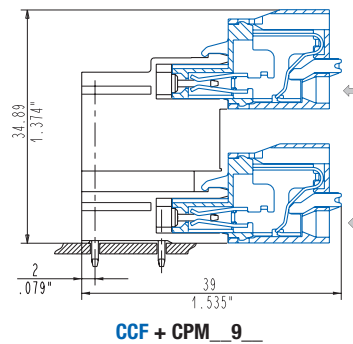
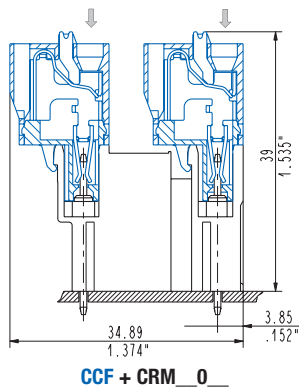
## 21 CCF + CIM/CIMH



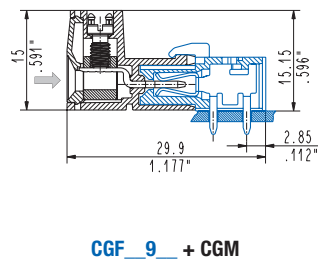
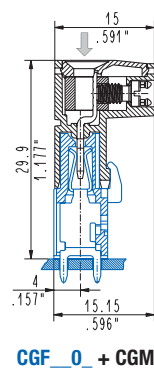
## 22 CCF + CPM/CPMH



## 23 CCF + CRM



## 24 CGF + CGM







## WAVE SOLDERING



WAVE SOLDERING		Lead-free tin soldering
<b>PREHEATING</b>	$T_0$ $T_1$ Time Gradient	25°C (77°F) up to 140°C (284°F) from 70s to 90s 1,5°C/s (34°F)
<b>PEAK</b>	$T_p$ Time	from 240°C (464°F) to 260°C (500°F) from 2s to 5s

## REFLOW SOLDERING

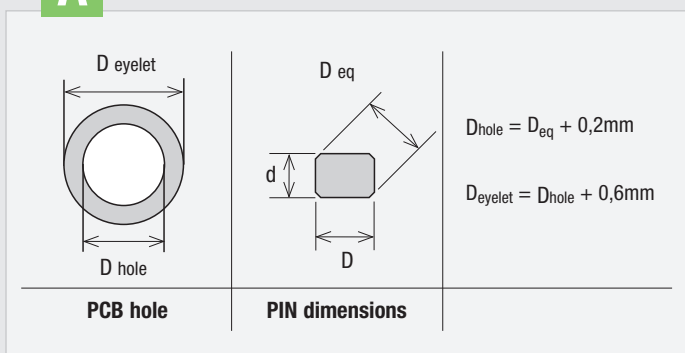
Sauro **STH**® (SMD Through Hole) products are manufactured with a resistant to high temperature insulating material and therefore they can be soldered by all lead-free reflow processes with a peak temperature till 260°C/500°F, according to the related profile.



REFLOW SOLDERING		Lead-free tin soldering
<b>PREHEATING</b>	$T_0$ $T_1$ Time Gradient	25°C (77°F) from 150°C (302°F) to 190°C (374°F) from 150s to 180s 1,5°C/s (34°F/s)
<b>PEAK</b>	$T_p$ Time	up to 260°C (500°F) from 10s to 30s
<b>HEATING</b>	$T_L$ Time	above 217°C (422°F) from 60s to 150s

## STH® products' assembly:

### A PCB holes and eyelets sizing



### B Soldering paste quantity

$$V_f = \left[ \frac{\pi \cdot d_f^2}{4} \cdot S \right]$$

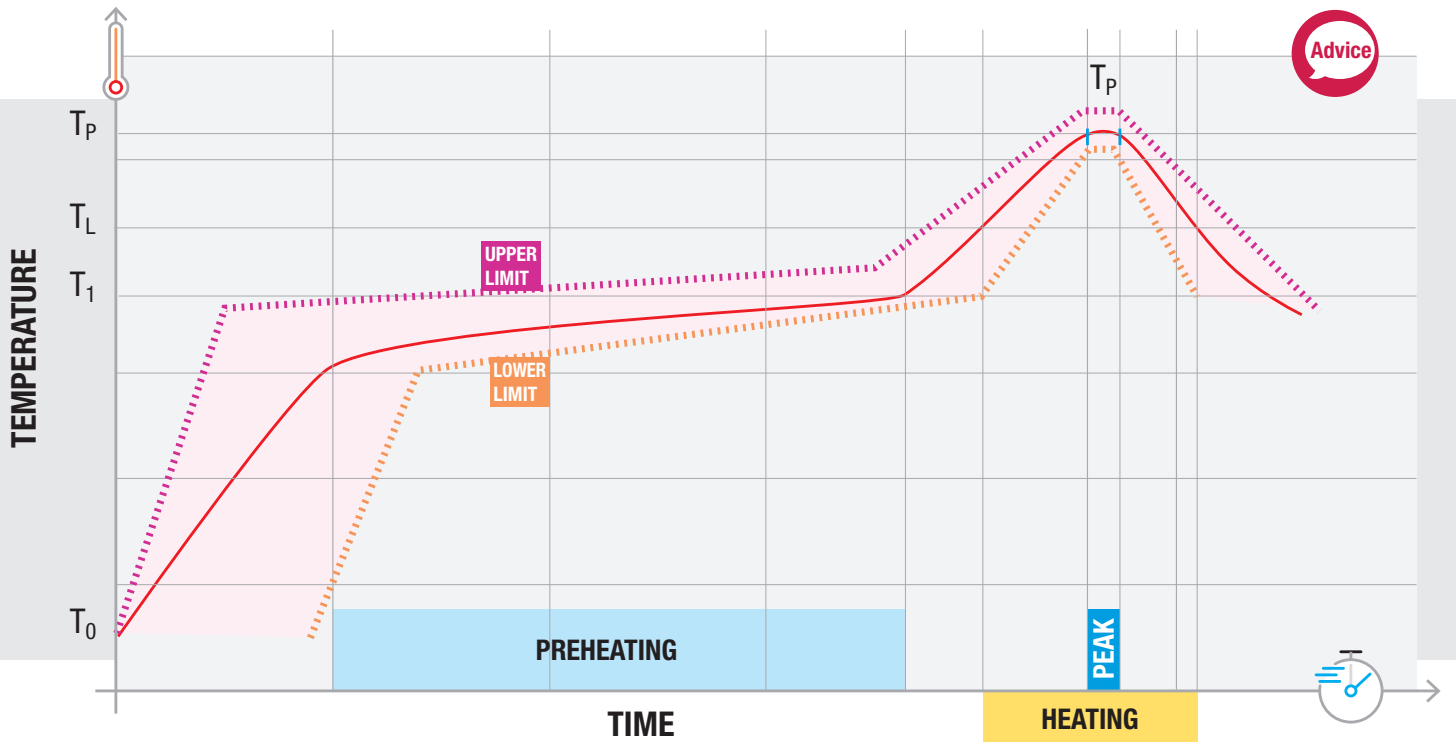
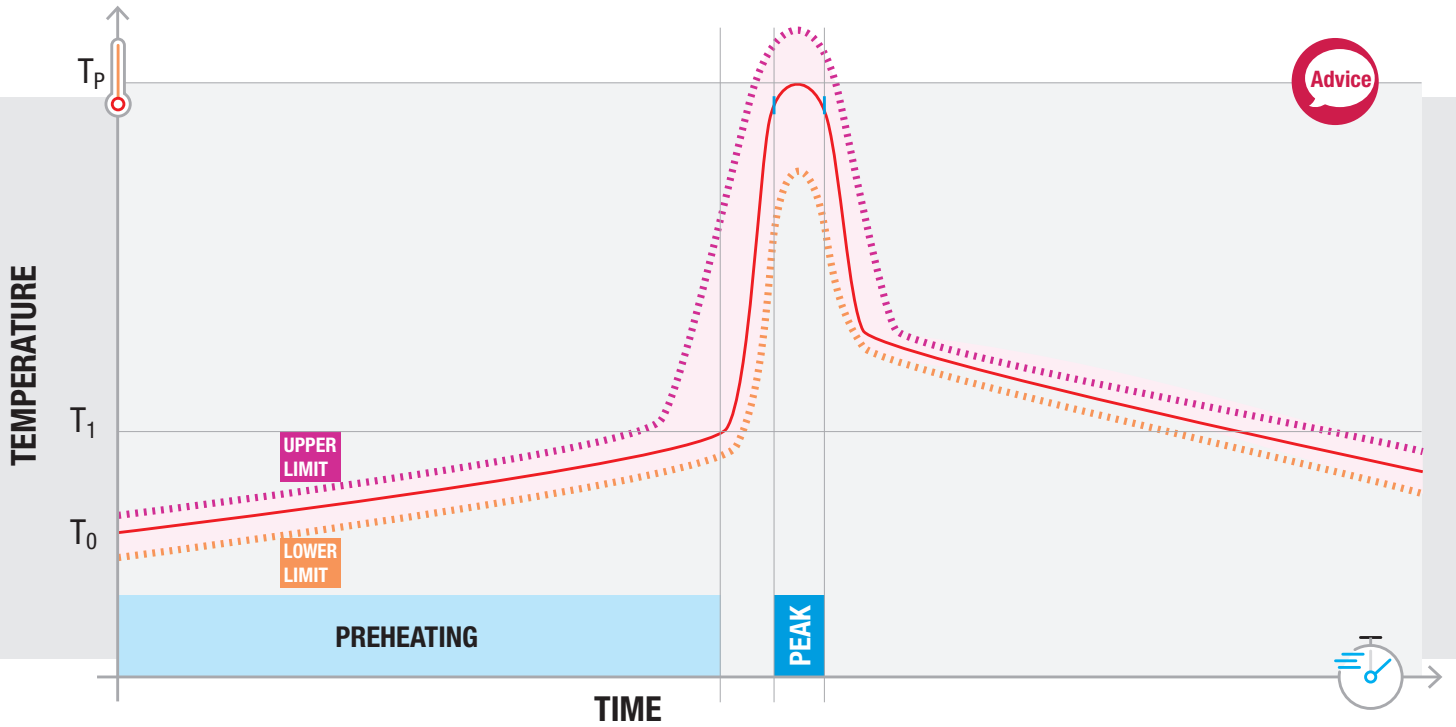
$$V_n = V_f - V_p$$

$$\text{Paste volume} = V_n \cdot K$$

Where:

$V_f$  = Hole volume  
 $V_n$  = Net volume  
 $V_p$  = Soldering pin volume  
 $S$  = PCB thickness

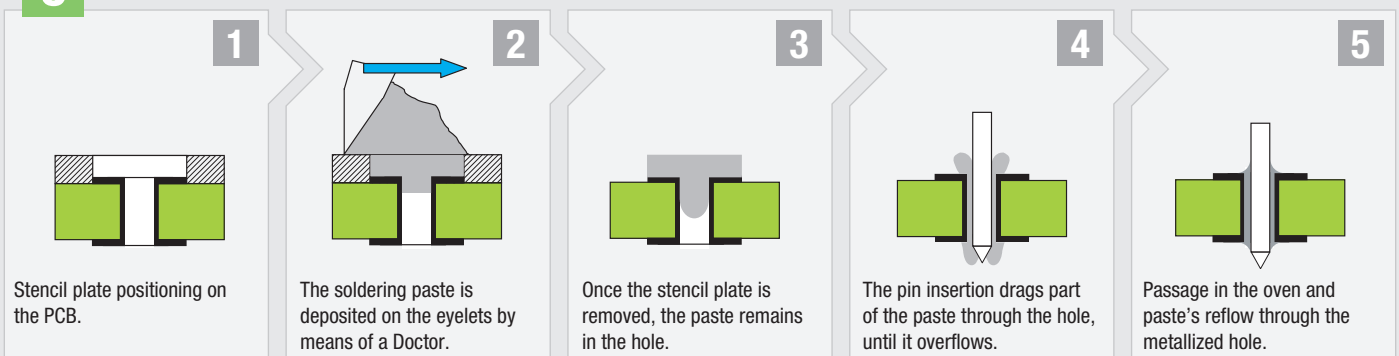
$d_f$  = Hole on the PCB  
 $K$  = Evaporation factor (equal to 2 if the foreseen evaporation is 50% of the placed paste)



Ramp-up rate ( $T_L$  to  $T_P$ ) 3°C/second max.

**C** Reflow soldering process

**Advice**



## TERMINAL BLOCKS

**Part-Number**

Standard Code

Custom Code

MSB \_
02001 -
0000P \_

**N° of poles**

<p><b>Series:</b> MSD MTB MTS MSB MSG MSF MSM MSS MSQ MSP MPS MPP MMT MCC MCM MCQ</p>	<p><b>Tecnology:</b> H = STH D = SMD</p>	<p><b>Marking:</b> O = None A = Reverse B = Straight</p> <p><b>Vers. MSQ/MSM:</b> D = Double PIN S = Zig-Zag</p> <p><b>Vers. MPP/MPS:</b> D = Double S = Single Z = Zig-Zag</p> <p><b>Vers. MSB 90°(T) multipolar</b> T = MSB 90°(T) S = MSB U = MSB Y = MSB 90°</p> <p><b>Vers. MSS body H=14.9mm</b> D = MSS T = MSS 90°</p> <p><b>Vers. MCM in K75 and OT80</b> O = Standard E = Low conductivity</p> <p><b>Vers. MCCH</b> 4 = 45°</p>	<p><b>Mounting type:</b> O = Straight 4 = 35° for MSM, MSP 55° for MTB 6 = 55° 9 = 90° 5 = 270° A = Side Stackable M = Modular V = Locking Screw Flanges</p>	<p><b>Pitch:</b> O = Custom configuration 4 = 2.54 mm / .100 in 8 = 3.50 mm / .138 in T = 3.81 mm / .150 in F = 4 mm / .157 in 1 = 5.00 mm / .197 in 5 = 5.08 mm / .200 in S = 6.35 mm / .250 in 9 = 7.00 mm / .275 in 3 = 7.50 mm / .295 in 7 = 7.62 mm / .300 in E = 8 mm / .315 in N = 9.52 mm / .375 in 2 = 10.00 mm / .394 in 6 = 10.16 mm / .400 in U = 12.7 mm / .500 in Q = 15 mm / .591 in R = 15.24 mm / .600 in C = 19.04 mm / .785 in</p>	<p><b>Custom:</b> X000_ = Custom marking 0000P = Vde Pegs 000T = Aligned Screw and Pin 000C = Short circuited Terminal Block 0X00_ = Multicolor product</p> <p><b>Colors</b> OV = Green (similar to RAL 6032) ON = Black (similar to RAL 9005) OG = Light Gray (similar to RAL 7035) OF = Dark Gray (similar to RAL 7040) OA = Orange (similar to RAL 2003) OB = Blue (similar to RAL 5012) OE = Blue Gray (similar to RAL 7031) OP = Flame Red (similar to RAL 3000) OR = Red (similar to RAL 3017) OC = Brown (similar to RAL 8019) OW = White (similar to RAL 9001) OY = Yellow (similar to RAL 1018) OT = Natural OD = Yellow/Green</p>
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## PLURIMA® - MULTI-LEVEL TERMINAL BLOCKS

**Part-Number**

Standard Code

Custom Code

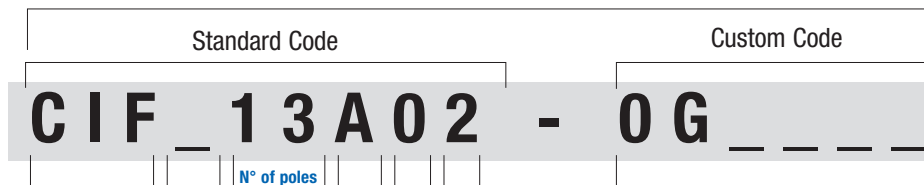
PSB \_
030M1 -
OR \_ \_ \_ \_

**N° of poles**

<p><b>Series:</b> PSB PSM PSQ</p>	<p><b>Tecnology:</b> H = STH</p>	<p><b>Marking:</b> O = None A = Reverse B = Straight</p>	<p><b>Mounting type:</b> D = 1<sup>st</sup> &amp; 2<sup>nd</sup> Level M = Medium Tower K = 2<sup>nd</sup> &amp; 3<sup>rd</sup> Level H = High Tower T = 3 Levels Q = 4 Levels</p>	<p><b>Pitch:</b> O = Custom configuration 1 = 5.00 mm / .197 in 5 = 5.08 mm / .200 in 3 = 7.50 mm / .295 in 2 = 10.00 mm / .394 in 6 = 10.16 mm / .400 in</p>	<p><b>Custom Marking/Colors:</b> X000_ = Custom marking 0X00_ = Multicolor product</p> <p><b>Colors</b> OV = Green (similar to RAL 6032) ON = Black (similar to RAL 9005) OG = Light Gray (similar to RAL 7035) OF = Dark Gray (similar to RAL 7040) OA = Orange (similar to RAL 2003) OB = Blue (similar to RAL 5012) OE = Blue Gray (similar to RAL 7031) OP = Flame Red (similar to RAL 3000) OR = Red (similar to RAL 3017) OC = Brown (similar to RAL 8019) OW = White (similar to RAL 9001) OY = Yellow (similar to RAL 1018) OT = Natural OD = Yellow/Green</p>
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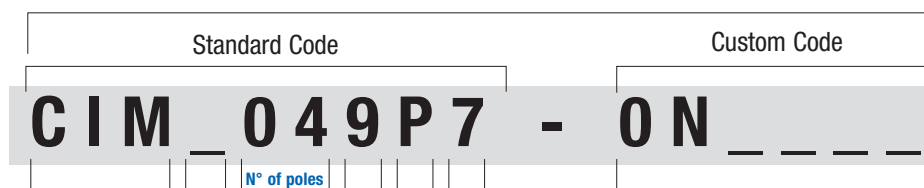
### Part-Number



<b>Series:</b> CTF CSF CIF CVF CUF CGF CKF CCF CBF CHF CLF CYF	<b>Tecnology:</b> H = STH	<b>Marking:</b> 0 = None A = Reverse B = Straight	<b>Mounting Type:</b> 0 = Side Stackable 1 = Straight 9 = 90° M = Modular W = Modular P = Polarized R = Side Stackable Right L = Side Stackable Left V = Locking Screw Flanges (CTF, CIF) D = Locking Screw Flanges Right version (CVF) S = Locking Screw Flanges Left version (CVF) S = CSF <b>safe</b> with Snappers J = CSF <b>safe</b> 90° F = CSF <b>safe</b> with Locking Screw Flanges U = Universal N = 90° side stackable low (CSF) G = Modular low (CSF) B = 90° lowered flanges (CSF) A = Side stackable (CYF)	<b>Pitch:</b> 0 = Custom configuration 4 = 2.54 mm / .100 in 8 = 3.50 mm / .138 in T = 3.81 mm / .150 in 1 = 5.00 mm / .197 in 5 = 5.08 mm / .200 in 9 = 7.00 mm / .275 in 3 = 7.50 mm / .295 in 7 = 7.62 mm / .300 in 2 = 10.00 mm / .394 in 6 = 10.16 mm / .400 in Q = 15 mm / .591 in R = 15.24 mm / .600 in	<b>Custom:</b> X000_ = Custom marking OX00_ = Multicolor product  <b>Colors</b> OV = Green (similar to RAL 6032) ON = Black (similar to RAL 9005) OG = Light Gray (similar to RAL 7035) OF = Dark Gray (similar to RAL 7040) OA = Orange (similar to RAL 2003) OB = Blue (similar to RAL 5012) OE = Blue Gray (similar to RAL 7031) OP = Flame Red (similar to RAL 3000) OR = Red (similar to RAL 3017) OC = Brown (similar to RAL 8019) OW = White (similar to RAL 9001) OY = Yellow (similar to RAL 1018) OT = Natural OD = Yellow/Green
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## CONNECTORS - HEADER

### Part-Number

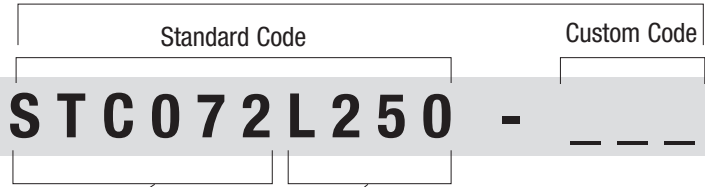


<b>Series:</b> CTM CSM CIM CPM CGM CRM CLM CYM CCM	<b>Tecnology:</b> H = STH D = SMD	<b>CGM Marking:</b> 0 = None A = Reverse B = Straight  <b>Version:</b> 0 = Straight 4 = 45° 9 = 90° 5 = 270° R = High  <b>CLMH side stackable version:</b> 0 = pin d=1.3mm S = pin d=1.3mm	<b>Mounting Type:</b> M = Modular A = Side Stackable P = Polarized X = Autoallineante E = Ejector Ears V = Locking Screw Flanges V = (CTMH) Locking screw flanges on PCB L = Polarized left R = Polarized right F = (CTMH) Locking pin flanges on PCB S = CSMH side stackable version L = CLMH large side stackable version A = CSMD side stackable version S = (CIMH) straight/90° version with locking screw flanges on PCB F = (CIMH) straight/90° version with locking pin flanges on PCB	<b>Pitch:</b> 0 = Custom configuration 4 = 2.54mm / .100 in 8 = 3.50 mm / .138 in T = 3.81 mm / .150 in 1 = 5.00 mm / .197 in 5 = 5.08 mm / .200 in 9 = 7.00 mm / .275 in 3 = 7.50 mm / .295 in 7 = 7.62 mm / .300 in 2 = 10.00 mm / .394 in 6 = 10.16 mm / .400 in Q = 15 mm / .591 in R = 15.24 mm / .600 in	<b>Custom Marking/Colors:</b> X000_ = Custom marking OX00_ = Multicolor product  <b>Colors</b> OV = Green (similar to RAL 6032) ON = Black (similar to RAL 9005) OG = Light Gray (similar to RAL 7035) OF = Dark Gray (similar to RAL 7040) OA = Orange (similar to RAL 2003) OB = Blue (similar to RAL 5012) OE = Blue Gray (similar to RAL 7031) OP = Flame Red (similar to RAL 3000) OR = Red (similar to RAL 3017) OC = Brown (similar to RAL 8019) OW = White (similar to RAL 9001) OY = Yellow (similar to RAL 1018) OT = Natural OD = Yellow/Green
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# HOW TO ORDER

## EXTRUDED PCB SUPPORTS STC072 / STC000

### Part-Number



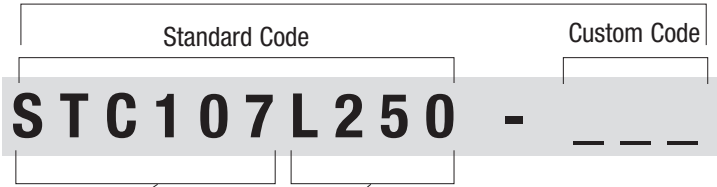
<b>Series:</b> STC072	<b>Code-parts cut profile size L:</b> S016 = STD Size Cut Profile L 16.50 mm / .650 in S028 = STD Size Cut Profile L 27.75 mm / 1.093 in S039 = STD Size Cut Profile L 39.00 mm / 1.535 in S050 = STD Size Cut Profile L 50.25 mm / 1.978 in S061 = STD Size Cut Profile L 61.50 mm / 2.421 in S073 = STD Size Cut Profile L 72.75 mm / 2.864 in S084 = STD Size Cut Profile L 84.00 mm / 3.307 in S095 = STD Size Cut Profile L 95.25 mm / 3.750 in S106 = STD Size Cut Profile L 106.50 mm / 4.193 in S118 = STD Size Cut Profile L 117.75 mm / 4.636 in S129 = STD Size Cut Profile L 129.00 mm / 5.079 in S140 = STD Size Cut Profile L 140.25 mm / 5.522 in S151 = STD Size Cut Profile L 151.50 mm / 5.965 in S163 = STD Size Cut Profile L 162.75 mm / 6.407 in S174 = STD Size Cut Profile L 174.00 mm / 6.850 in A026 = STD Size Adapter for 68 mm / 2.677 in PCB	<b>For PCB:</b> 20.00 mm / .787 in 31.25 mm / 1.230 in 2.50 mm / 1.673 in 53.75 mm / 2.116 in 65.00 mm / 2.559 in 76.25 mm / 3.002 in 87.50 mm / 3.445 in 98.75 mm / 3.888 in 110.00 mm / 4.331 in 121.25 mm / 4.774 in 132.50 mm / 5.217 in 143.75 mm / 5.659 in 155.00 mm / 6.102 in 166.25 mm / 6.545 in 177.50 mm / 6.988 in
STC072	TSX0 = Left Lateral Element with Rail Hook TDX0 = Right Lateral Element with Rail Hook T000 = Head Without Rail Hook 2000 = Profile for PCB L 2 m / 78.74 in P011 = DIN Rail Hook L___ = Custom Size Cut Profile (in mm)	
STC000	V015 = Screw for Head Fastening (L=15mm) V025 = Screw for Head Fastening (L=25mm) F000 = Bracket for Wall Mounting	

### Code-parts

- |               |               |               |
|---------------|---------------|---------------|
| 1) STC072TSX0 | 5) STC072S___ | 6) STC072T000 |
| 2) STC000F000 | STC0722000    | 7) STC072TDX0 |
| 3) STC072T000 | STC072L___    | 8) STC000V015 |
| 4) STC072P011 |               |               |

## EXTRUDED PCB SUPPORTS STC107 / STC000

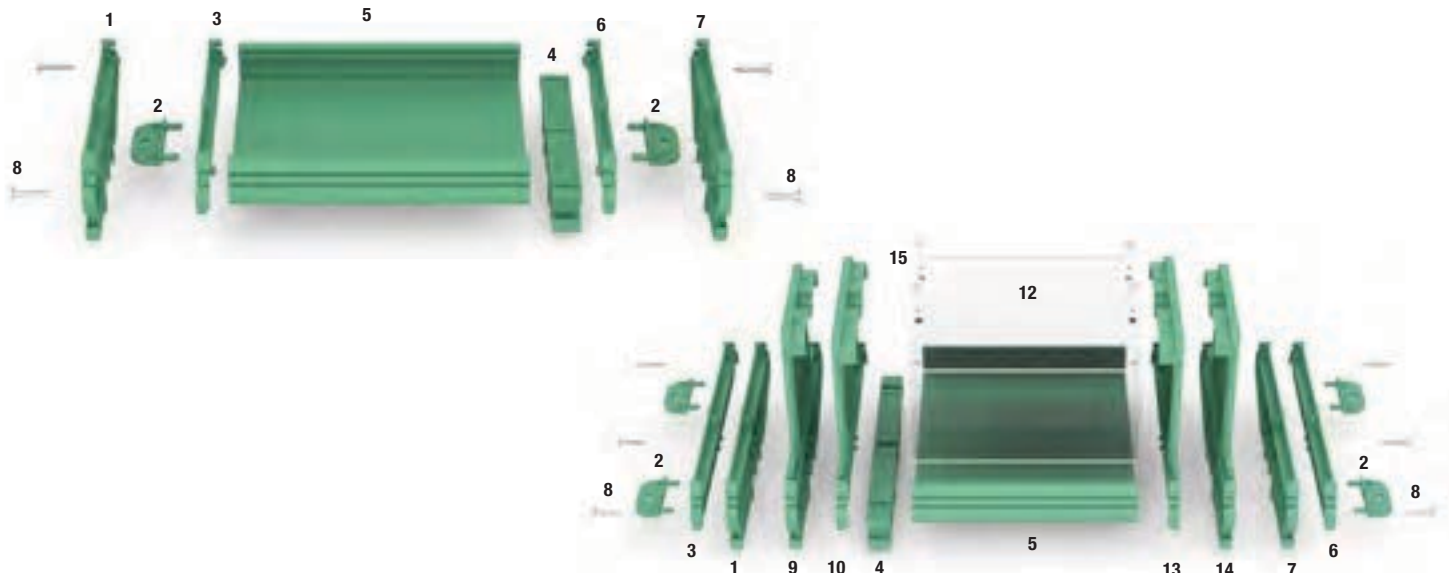
### Part-Number



<b>Series:</b> STC107	<b>Code-parts cut profile size L:</b> S035 = STD Size Cut Profile L 35.00 mm / 1.378 in S051 = STD Size Cut Profile L 51.50 mm / 2.028 in S070 = STD Size Cut Profile L 70.00 mm / 2.756 in S086 = STD Size Cut Profile L 86.50 mm / 3.406 in S105 = STD Size Cut Profile L 105.00 mm / 4.134 in S121 = STD Size Cut Profile L 121.50 mm / 4.783 in S140 = STD Size Cut Profile L 140.00 mm / 5.512 in S156 = STD Size Cut Profile L 156.50 mm / 6.161 in S175 = STD Size Cut Profile L 175.00 mm / 6.890 in S191 = STD Size Cut Profile L 191.50 mm / 7.538 in S210 = STD Size Cut Profile L 210.00 mm / 8.268 in S226 = STD Size Cut Profile L 226.50 mm / 8.898 in S245 = STD Size Cut Profile L 245.00 mm / 9.646 in S261 = STD Size Cut Profile L 261.50 mm / 10.295 in S280 = STD Size Cut Profile L 280.00 mm / 11.024 in A160 = STD Size Adapter for 100 mm / 3.937 in PCB A___ = Custom Size Cut Adapter for 100 mm / 3.937 in PCB	<b>For PCB:</b> 38.50 mm / 1.516 in 55.00 mm / 2.165 in 73.50 mm / 2.894 in 90.00 mm / 3.543 in 108.50 mm / 4.272 in 108.50 mm / 4.272 in 125.00 mm / 4.921 in 143.50 mm / 5.650 in 160.00 mm / 6.299 in 178.50 mm / 7.026 in 195.00 mm / 7.677 in 213.50 mm / 8.406 in 230.00 mm / 9.055 in 248.50 mm / 9.783 in 265.00 mm / 10.433 in 283.50 mm / 11.161 in
STC107	TSX0 = Left Lateral Element with Rail Hook TDX0 = Right Lateral Element with Rail Hook T000 = Head Without Rail Hook 2000 = Profile for PCB L 2 m / 78.74 in P011 = DIN Rail Hook L___ = Custom Size Cut Profile (in mm)	
STC000	V015 = Screw for Head Fastening (L=15mm) V025 = Screw for Head Fastening (L=25mm) F000 = Bracket for Wall Mounting	

### Code-parts

- |               |               |                |                |
|---------------|---------------|----------------|----------------|
| 1) STC107TSX0 | 5) STC107S___ | 7) STC107TDX0  | 12) STC107C___ |
| 2) STC000F000 | STC1072000    | 8) STC000V015  | STC107D___     |
| 3) STC107T000 | STC107L___    | 9) STC107TS73  | 13) STC107T060 |
| 4) STC107P011 |               | 10) STC107T073 | 14) STC107TD60 |
|               |               |                | 15) STC000VC15 |



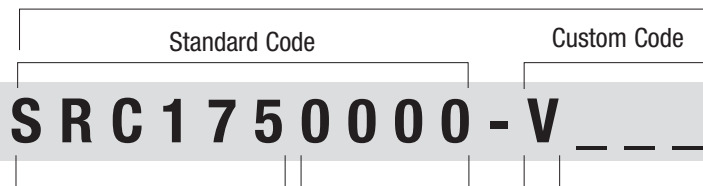
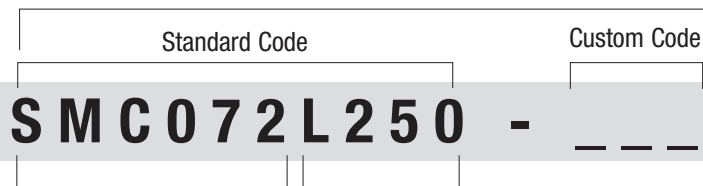
# HOW TO ORDER

## MODULAR PCB SUPPORTS SMC072 / STC107

## DIN RAIL BOXES

Part-Number

Part-Number



**Series:**  
STC072

**Code parts:**  
T011 = Lateral Element  
T012 = Lateral Element  
T013 = Complete Module  
S011 = Base Element  
S022 = Base Element  
S045 = Base Element  
P020 = Hook Element for DIN Rail

**SMC107**

T000 = Lateral Element  
P035 = Base Element with Hook  
S016 = Base Element  
S035 = Base Element  
S00T = Stiffening Brass Element

**Series:**  
SRC

**Code parts:**  
1750000 = Complete kit H = 17.5 mm  
2250000 = Complete kit H = 22.5 mm  
3500000 = Complete kit H = 35.0 mm  
4500000 = Complete kit H = 45.0 mm

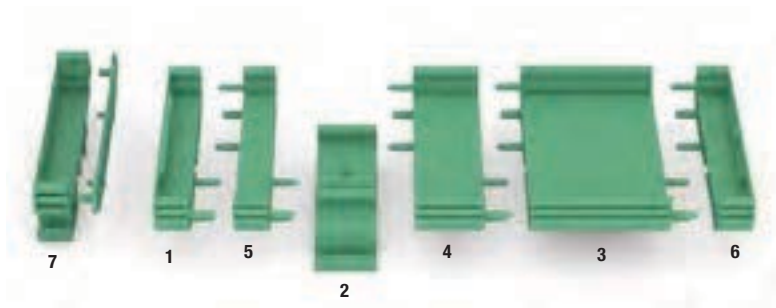
**Colors:**  
V = Green (similar to RAL 6001)  
G = Gray (similar to RAL 7035)  
N = Black (similar to RAL 7016)  
T = Transparent Red Color; only for SRC000012P and SRC000017P

**Accessories:**  
000000C = Breakable side split cover  
000012P = Frontal panel 12 mm  
000017P = Frontal panel 17 mm  
000000A = Internal Adapter  
000000D = Spacer

### SMC 072 code-parts

- 1) SMC072T011
- 2) SMC072P020
- 3) SMC072S045
- 4) SMC072S022
- 5) SMC072S011
- 6) SMC072T011
- 7) SMC072T013

### DIN rail boxes

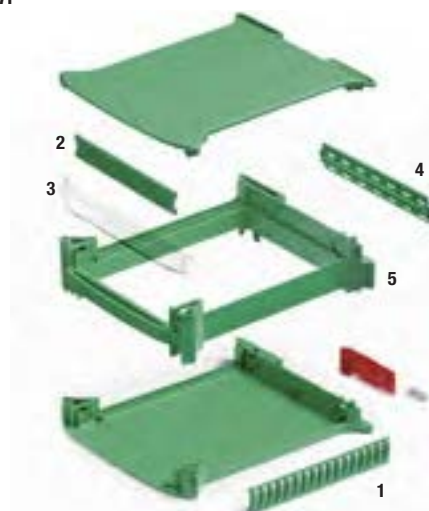
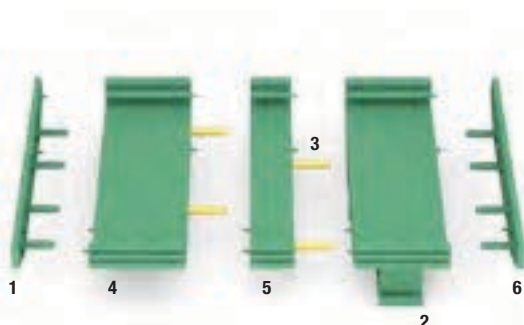


### SMC 107 code-parts

- 1) SMC107T000
- 2) SMC107P035
- 3) SMC107S00T
- 4) SMC107S035
- 5) SMC107S016
- 6) SMC107T000

### Accessories

- 1) SRC000000C
- 2) SRC000012P
- 3) SRC000017P
- 4) SRC000000A
- 5) SRC000000D




## ADHESIVE LABELS

The ESA series adhesive labels are available for all pitches, with progressive numbering (standard labels) or with sequences of characters with different sizes, orientation and positions (custom labels). They are made of white solvent free and stain resistant polyester and are supplied with the characters printed in black with maximum readability. The labels are UL and CSA approved and their application is the responsibility of the user.

**Part-Number**

Standard Code  
**ESA00000000**

<b>Series:</b> ESA	<b>Pitch:</b> 4 = 2.54 mm / .100 in 8 = 3.50 mm / .138 in T = 3.81 mm / .150 in 1 = 5.00 mm / .197 in 5 = 5.08 mm / .200 in S = 6.35 mm / .250 in 9 = 7.00 mm / .275 in 3 = 7.50 mm / .295 in 7 = 7.62 mm / .300 in N = 9.52 mm / .375 in 2 = 10.00 mm / .394 in 6 = 10.16 mm / .400 in 0 = Custom configuration	<b>Label Height</b> 30 = 2.8 mm / .110 in 40 = 3.8 mm / .150 in 50 = 5 mm / .197 in	<b>Marking</b> 0 = Standard - = Custom configuration*	<b>Number</b> -- = First number in sequence (STANDARD) -- = First number or letter/s (CUSTOM DESIGN)	<b>Number</b> -- = Last number in sequence (STANDARD) -- = Last number or letter/s (CUSTOM DESIGN)
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## PAD PRINTING

The possibility of marking on the connecting devices represents an ideal and functional solution for the identification of each single pole.

**SAURO performs pad printing by using a bi-component ink**, obtaining the highest possible readability, indelible and scratch resistant characters.

Pad printing can be:

- **Standard** (numbers in progression): **A** if reverse or **B** if straight, as illustrated below;
- **Customed**: sequences of characters, numbers or symbols with different dimensions, colors, orientation and positions.

**Reverse pad printing (A)**



**Straight pad printing (B)**



# PACKAGING

## Standard Packaging

Each SAURO product is available in its Standard Packaging which contains a fixed number of pieces.

**The product must be ordered in a quantity which is equal to the respective Standard Packaging or multiples of it.**

## Industrial Packaging

Industrial packaging is for large quantities of the same product (code) when it is not convenient to divide the pieces into many boxes. The product code is obtained by using the standard code and adding -00000E.

## 1/10 of Standard Packaging

For samples or for small batches, SAURO products can be ordered in 1/10 of the Standard Packaging, this comes with an extra charge.

## Kit Packaging

All SAURO products are available in the following kits, which simplify their handling (e.g. reduction of part numbers), warehouse and assembly management, reducing the possibility of making mistakes. Usually the part number of products in kit starts with the letter K.

**Client PCB Kit:** different products packed together according to assembly needs. All components are usually packed in a plastic bag.

**Assembly Kit:** as above, but with every single item packed separately in order to optimize the quantity and the assembly process on the PCB. Each item is packed in a large plastic bag and this is then inserted into a cardboard box completing the kit.

**Ergonomic Kit:** with different modular and eventually marked items, so that the consecutive separation optimizes the assembly process on the PCB.

**Tape-on-Reel Kit, Tray Kit, Tube Kit:** for a semi-automated or fully automated product feed directly on the assembly line.



Industrial packaging

Standard packaging



Ergonomic Kit



PCB Client Kit



Tray Kit

Tube Kit

Tape-on-Reel kit

## KANBAN

A further distribution service according to the use (just in time) of the above mentioned Kits or of the standard and industrial packages.

## Other solutions upon request

### Sample Box

A Sample Box is available upon request and includes a selection of terminal blocks and connectors in different configurations in order to learn about SAURO products, or for prototype applications.

The part number for ordering it is:

WV0018-CS



Sample Box



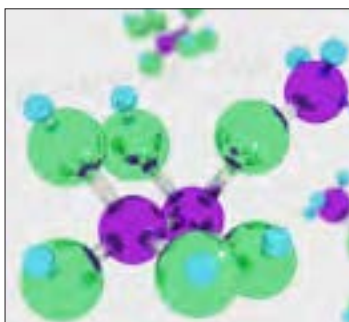
## RoHS (Restriction of Hazardous Substances)

The **European Directive 2011/65/EU, (RoHS2)**, as amended by the Delegated Directive 2015/863/EU (RoHS3), imposes restrictions on the use of lead, mercury, cadmium, hexavalent chromium and some flame retardants (PBB, PBDE and Deca-BDE) in the construction of electrical and electronic equipment. The RoHS Directive was adopted by the European Community in February 2003 and became fully effective from July 1st 2006.

Since its foundation in 1984 SAURO has never used materials or substances in its products which are declared or suspected to be carcinogenic, toxic or dangerous for human health and / or for the environment.

**Moreover, SAURO performs XRF (X-Ray Fluorescence) spectrophotometric analysis specific to verify the absence of the above substances in the raw materials used in its manufactured products.**

Compliance with the Directive in question is highlighted in the packaging using the following symbols:



## REACH (Registration, Evaluation and Authorization of Chemicals)

The **REACH Regulation (n.1907 / 2006)** concerning the registration, evaluation and authorization of chemical substances effectively entered into force on June 1st 2007.

With reference to the REACH Regulation, SAURO does not manufacture or import chemical substances; however SAURO, as a user of raw materials, works with its suppliers to obtain a correct application of the REACH regulation. Regarding chemicals for which the alert level ("**Substances of Very High Concern**" SVHC and Annexes XVII and XIV) remains high, SAURO requires from all of its suppliers that these substances are recorded in full compliance with the regulation.



## International Agency Approvals

The choice and purposeful design of SAURO products are the result of a long experience matured in the field of electrical connections and a total respect of the international reference standards such as:

**IEC EN 60947-7-4, IEC EN 60998, IEC EN 61984, IEC EN 60999, DIN EN ISO 6988, VDE 0627, IEC EN 60664, VDE 0110-1, UL 1059, UL 486A, UL 94, CSA 22.2.**

SAURO products are **CE** marked and are **UL, VDE, IMQ, cULus and CSA** certified, with ownership of the relevant **specific files**. Technical data for which the various **certifications** are issued, can be found for each product at the SAURO website [www.sauro.net](http://www.sauro.net). Products plastic housings feature **CE and UL** marks due to their small size.

**Additional and comprehensive details on certifications and agency approvals are featured on the product packaging label and consequently SAURO products must reach the final user in original packaging with the label intact.**

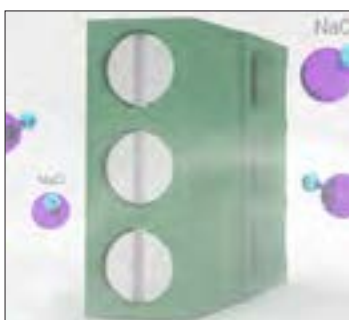


## Compliance with EN 60335-1

The **EN60335-1** standard that regulates the safety of electrical and electronic equipment for domestic and similar uses, requires the products to pass certain self-extinguishing tests **with more restrictive limits than those required by the specific rules for connection devices**, such as terminal blocks and connectors for PCB.

The insulating material used in all SAURO terminal blocks and connectors is **GWIT classified (Glow Wire Ignition Temperature) 775 ° C (1427 ° F)**.

The entire range of SAURO products is **therefore suitable for use in domestic appliances subject to European Standard EN 60335-1, such as appliances, thermostats, automation systems and similar electrical devices.** The **declaration of conformity to EN 60335-1** can be obtained on request.

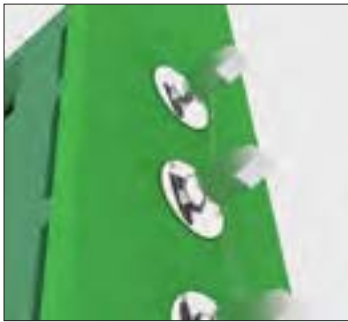


## No corrosion

SAURO products are suitable for use in harsh environments and harsh operating conditions (marine environments, chemical industries, etc.), since its metallic components are made exclusively in special **copper alloys**.

The salt spray test, according to **UNI EN ISO 9227-06**, highlights the reactions of materials when they are exposed for **168 hours (7 days)** to the corrosive action of salt (NaCl), present in a certain concentration in the atmosphere. SAURO products, after being subjected to this test **remain absolutely unaltered and show no sign of corrosion**, while often in other comparable products with the same exposure, the presence of red corrosion (rust) or white corrosion (chloride of zinc) occurs.

In addition, all products with spring clamping technology and, in all cases, with **stainless steel** metal components can be used in environments where ammonia is present (NH<sub>3</sub>) such as agricultural and live stock applications or chemical industries.



## No Whiskers phenomenon

In lead-free tin coatings, the Whiskers phenomenon should not be underestimated: microcrystals protruding from the pure tin layer that can create, over time, tin whiskers, and cause very dangerous short circuits. SAURO has obtained a solution to ensure that this phenomenon does not occur by adopting different galvanic treatment technologies.



## Conflict Minerals Free

SAURO is committed to providing its customers with the highest quality products supporting the fight against violence, human rights violations and environmental degradation. According to the statements sent by its suppliers, all raw materials used in the production of terminal blocks and connectors do not contain minerals extracted in countries subject to internal conflicts in the eastern provinces of the Democratic Republic of Congo (DRC) and in the neighbouring countries, as required by the provisions on the "Conflict Minerals" under the Dodd-Frank Wall-Street Reform and Consumer Protection Act of 2010.



## Screw Tightening Torque

Data concerning the tightening torque according to CEI EN 60999-1 and concerning the recommended torque for SAURO rising clamps:

THREAD	SLOTTED SCREW	
	Nominal tightening torque (Nm)	Recommended tightening torque (Nm)
M 1.6	0.1	0.1 - 0.15
M 2	0.2	0.2 - 0.25
M 2.5	0.4	0.4 - 0.5
M 3	0.5	0.5 - 0.6
M 3.5	0.8	0.8 - 1.0
M 4	1.2	1.2 - 1.5



## Sealing Label

The production **BATCH** number is very important for the traceability of the product.



Connect with confidence, we take care of the rest



<p><b>NORTH and SOUTH AMERICA</b></p> <p><b>SAURO Inc.</b></p> <p>1604 - A Bench Mark Dr. AUSTIN, TX 78728 Tel.: (+1) 512 2558420 Fax: (+1) 512 2558430 E-mail: sauroinc@sauro.net</p> 	<p><b>NORTH EUROPE</b></p> <p><b>SAURO GmbH</b></p> <p>Hafenstrasse, 24 D-47809 Krefeld Tel.: (+49) 2151 7896043 Fax: (+49) 2151 7899694 E-mail: saurogmbh@sauro.net</p> 	<p><b>EUROPE and AFRICA</b></p> <p><b>SAURO s.r.l.</b></p> <p>Viale delle Industrie, 17 35010 Villafranca Padovana - Padova - Italy Tel.: (+39) 049 9070440 Fax: (+39) 049 9070430 E-mail: info@sauro.net</p> 	<p><b>FAR EAST, INDIA and OCEANIA</b></p> <p>赛络电子元件（上海）有限公司 中国上海外高桥保税区富特北路133号三层 邮编: 200131 Tel.: (+86) 021 58682734 Fax: (+86) 021 58682766 E-mail: saurocn@sauro.net</p> 
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Each one of your enquiries will be shared among all our Divisions.  
Every single request will always be answered.