



GREEN ELECTRONICS



**MSQ**

Terminal Blocks and Connectors for Printed Circuit Boards



ISO  
9001



ISO  
14001



BS OHSAS  
18001:2007



**SAUP®**  
ELECTRONIC CONNECTORS

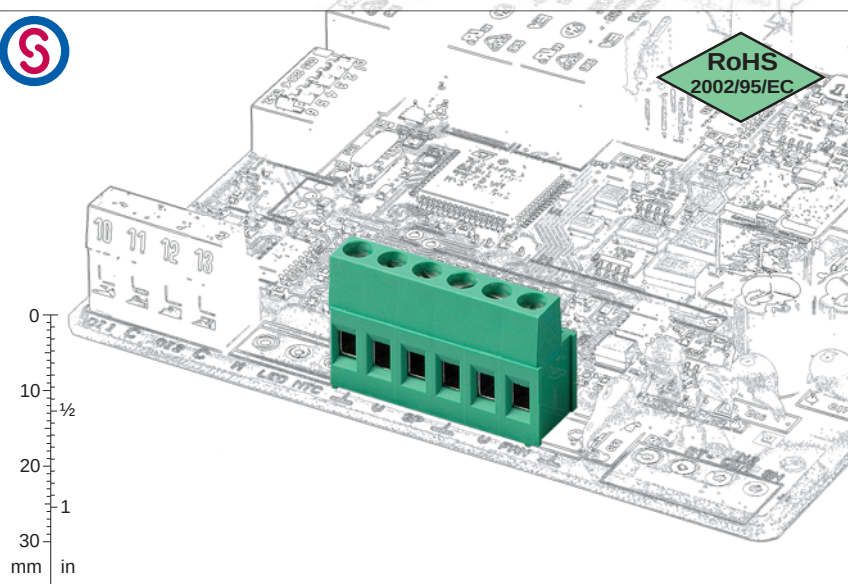
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**MSQ****Functional characteristics****Dimensional class:***high***Standard colour:***green***Height:***19 mm (.748 in)***Max approved wire sections:***solid: 4 mm<sup>2</sup> (IMQ); 11 AWG (CSA)**stranded: 2.5 mm<sup>2</sup> (IMQ); 11 AWG (CSA)***Clamp opening size:***2.6 x 3.5 mm (.102 x .138 in)***Versions:***modular***Single mould poles:***from 2 to 25***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)**pitch 5/5.08 mm  
straight, modular**pitch 7.5/7.62 mm  
straight, modular**pitch 10/10.16 mm  
straight, modular**pitch 5/5.08 mm  
90° version, modular**pitch 10/10.16 mm  
90° version, modular***Pat.**

available accessories:  
from 2 to 9 poles  
BSC\_\_00\_\_0R for rising clamp

**Brief description**

With the **MSQ** modular series terminal blocks for PCBs, wires up to 4mm<sup>2</sup> (11 AWG) can be used and consequently a current range of 32A certified can be reached.

It is available in 5 mm (.197 in), 7.5 mm (.294 in) and 10 mm (.394 in) metric pitches, and in 5.08 mm (.200 in), 7.62 mm (.300 in) and 10.16 mm (.400 in) Imperial pitches, in monolithic blocks from 2 to 25 poles, with insertion of the wire parallel or vertical in relation to the PCB.

All the housings are modular, therefore it is possible to compose the monolithic terminal blocks from 2 to 25 poles separately, or to compose

the basic terminal blocks until any number of poles is obtained. By taking advantage of this particular characteristic a minimum stock of basic terminal blocks can be kept.

It is simple to manage the product, the warehouse and the assembly with the Kit packages because several versions can be received with only one code, the part-numbers are significantly reduced and the risk of making mistakes is also reduced.

## Characteristics of components

M3 nickel plated copper alloy screw.

PA 6.6 polyamide housing.

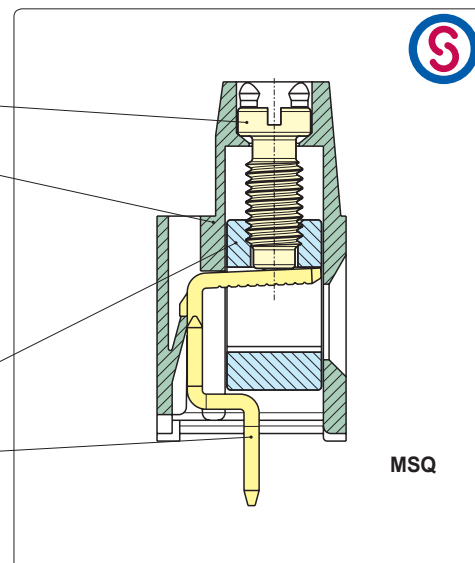
Standard colour: GREEN.

V0 self-extinguishing according to UL 94.

Chlorinated solvents resistant,  
with no phosphor, dioxin or  
detrimental to health halogens.

Nickel plated copper alloy clamp

Easy to solder lead-free  
tin-plated copper alloy pin.



## Mechanical characteristics

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| 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                      | 6.5 ÷ 7 mm (.26 ÷ .28 in)           |
| Operating temperature range           | -40 °C ÷ +110 °C (-40 °F ÷ +230 °F) |
| Climatic category                     | 40/110/21 according to EN 60068-1   |

## Electric characteristics\*

|                                                          |                                                 |
|----------------------------------------------------------|-------------------------------------------------|
| Solid wire section                                       | 30÷12 AWG (UL)* 0.05÷4 mm <sup>2</sup> (IMQ)*   |
| Stranded wire section                                    | 30÷12 AWG (UL)* 0.05÷2.5 mm <sup>2</sup> (IMQ)* |
| Rated voltage for 5 mm (.197 in) and 5.08 mm (.200 in)   | 300 V (UL)*                                     |
| Rated voltage for 7.5 mm (.295 in) and 7.62 mm (.300 in) | 750 V (IMQ)*                                    |
| Rated voltage for 10 mm (.394 in) and 10.16 mm (.400 in) | 750 V (IMQ)*                                    |
| Rated current                                            | 32 A (IMQ)*                                     |
| Contact resistance                                       | <15 mΩ                                          |
| Insulation resistance                                    | >10 <sup>9</sup> Ω (500V DC)                    |

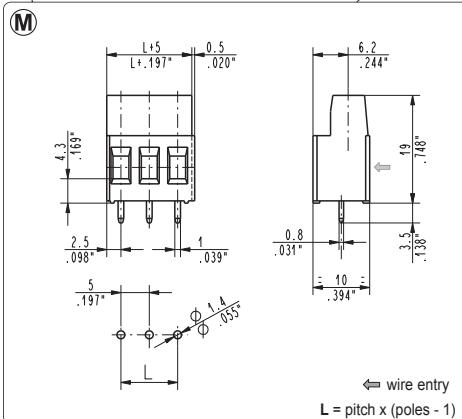
\*All the above mentioned data refer to the highest values amongst the certificated ones.

V voltage, I current values and tightening torque are related to the norms to be applied to the product and to its use.

## Approvals

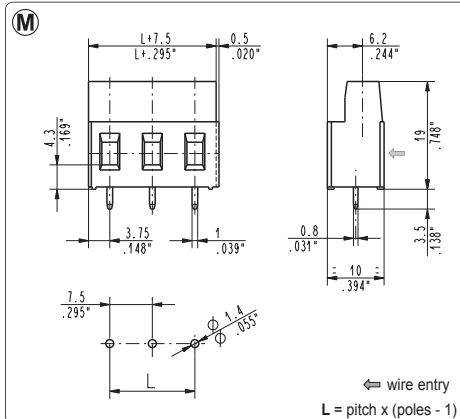
|        |                  |                                                                                                                                    |
|--------|------------------|------------------------------------------------------------------------------------------------------------------------------------|
| IEC-EN | IEC:             | 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                    |
|        | EN 60998         | 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 |
| UL     | UL:              | 300 V - 24 A (factory wiring), 20 A (field wiring) - 30÷12 AWG - 7 lbf-in for 5 mm, 5.08 mm, 7.5 mm and 7.62 mm pitch              |
|        | File E167473     | 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    | VDE:             | 250 V - 20 A - T 110 - 2.5 mm <sup>2</sup> for 5 mm and 5.08 mm pitch                                                              |
|        | File n. 40022743 | 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    | IMQ:             | 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                    |
|        | File: EB731      | 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 |





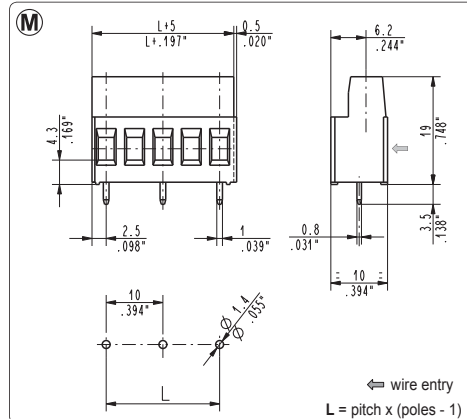
MSQ\_001 straight, modular

| 5 mm / .197" pitch |          | Pcs/pack. |      | W [kg]* | Pcs/Ind.** | W [kg]* |
|--------------------|----------|-----------|------|---------|------------|---------|
| Poles              | Code     |           |      |         |            |         |
| 02                 | MSQ02001 | 350       | 1,42 | 2000    | 8,12       |         |
| 03                 | MSQ03001 | 225       | 1,37 | 1250    | 7,61       |         |
| 04                 | MSQ04001 | 175       | 1,42 | 1000    | 8,12       |         |
| 05                 | MSQ05001 | 125       | 1,27 | 750     | 7,61       |         |
| 06                 | MSQ06001 | 125       | 1,52 | 750     | 9,14       |         |
| 07                 | MSQ07001 | 100       | 1,42 | 500     | 7,11       |         |
| 08                 | MSQ08001 | 75        | 1,22 | 500     | 8,12       |         |
| 09                 | MSQ09001 | 75        | 1,37 | 500     | 9,14       |         |
| 10                 | MSQ10001 | 75        | 1,52 | 500     | 10,15      |         |
| 11                 | MSQ11001 | 75        | 1,67 | 250     | 5,58       |         |
| 12                 | MSQ12001 | 50        | 1,22 | 250     | 6,09       |         |
| 13                 | MSQ13001 | 50        | 1,32 | 250     | 6,60       |         |
| 14                 | MSQ14001 | 50        | 1,42 | 250     | 7,11       |         |
| 15                 | MSQ15001 | 50        | 1,52 | 250     | 7,61       |         |
| 16                 | MSQ16001 | 50        | 1,62 | 250     | 8,12       |         |
| 17                 | MSQ17001 | 50        | 1,73 | 200     | 6,90       |         |
| 18                 | MSQ18001 | 50        | 1,83 | 200     | 7,31       |         |
| 19                 | MSQ19001 | 25        | 0,96 | 200     | 7,71       |         |
| 20                 | MSQ20001 | 25        | 1,02 | 200     | 8,12       |         |
| 21                 | MSQ21001 | 25        | 1,07 | 200     | 8,53       |         |
| 22                 | MSQ22001 | 25        | 1,12 | 200     | 8,93       |         |
| 23                 | MSQ23001 | 25        | 1,17 | 200     | 9,34       |         |
| 24                 | MSQ24001 | 25        | 1,22 | 150     | 7,31       |         |
| 25                 | MSQ25001 | 25        | 1,27 | 150     | 7,61       |         |



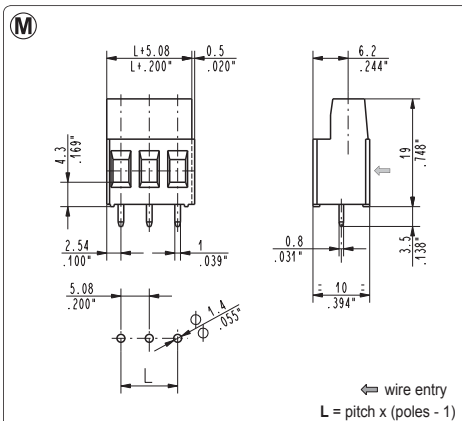
MSQ\_003 straight, modular

| 7.5 mm / .295" pitch |          | Pcs/pack. |      | W [kg]* | Pcs/Ind.** | W [kg]* |
|----------------------|----------|-----------|------|---------|------------|---------|
| Poles                | Code     |           |      |         |            |         |
| 02                   | MSQ02003 | 225       | 1,08 | 1250    | 6,00       |         |
| 03                   | MSQ03003 | 150       | 1,08 | 750     | 5,40       |         |
| 04                   | MSQ04003 | 100       | 0,96 | 500     | 4,80       |         |
| 05                   |          |           |      |         |            |         |
| 06                   |          |           |      |         |            |         |
| 07                   |          |           |      |         |            |         |
| 08                   |          |           |      |         |            |         |
| 09                   |          |           |      |         |            |         |
| 10                   |          |           |      |         |            |         |
| 11                   |          |           |      |         |            |         |
| 12                   |          |           |      |         |            |         |
| 13                   |          |           |      |         |            |         |
| 14                   |          |           |      |         |            |         |
| 15                   |          |           |      |         |            |         |
| 16                   |          |           |      |         |            |         |
| 17                   |          |           |      |         |            |         |
| 18                   |          |           |      |         |            |         |
| 19                   |          |           |      |         |            |         |
| 20                   |          |           |      |         |            |         |
| 21                   |          |           |      |         |            |         |
| 22                   |          |           |      |         |            |         |
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| 24                   |          |           |      |         |            |         |
| 25                   |          |           |      |         |            |         |



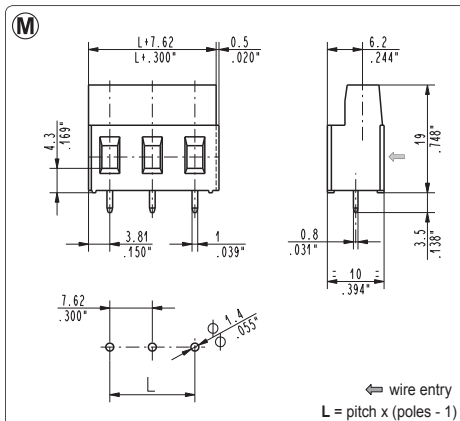
MSQ\_002 straight, modular

| 10 mm / .394" pitch |          | Pcs/pack. |      | W [kg]* | Pcs/Ind.** | W [kg]* |
|---------------------|----------|-----------|------|---------|------------|---------|
| Poles               | Code     |           |      |         |            |         |
| 01                  | MSQ01002 | 350       | 0,82 | 2000    | 4,70       |         |
| 02                  | MSQ02002 | 225       | 1,06 | 1250    | 5,88       |         |
| 03                  | MSQ03002 | 125       | 0,88 | 750     | 5,29       |         |
| 04                  | MSQ04002 | 100       | 0,94 | 500     | 4,70       |         |
| 05                  | MSQ05002 | 75        | 0,88 | 500     | 5,88       |         |
| 06                  | MSQ06002 | 75        | 1,06 | 500     | 7,05       |         |
| 07                  | MSQ07002 | 50        | 0,82 | 250     | 4,11       |         |
| 08                  | MSQ08002 | 50        | 0,94 | 250     | 4,70       |         |
| 09                  | MSQ09002 | 50        | 1,06 | 250     | 5,29       |         |
| 10                  | MSQ10002 | 25        | 0,59 | 250     | 5,88       |         |
| 11                  | MSQ11002 | 25        | 0,65 | 250     | 6,46       |         |
| 12                  | MSQ12002 | 25        | 0,71 | 250     | 7,05       |         |
| 13                  | MSQ13002 | 25        | 0,76 | 250     | 7,64       |         |
| 14                  |          |           |      |         |            |         |
| 15                  |          |           |      |         |            |         |
| 16                  |          |           |      |         |            |         |
| 17                  |          |           |      |         |            |         |
| 18                  |          |           |      |         |            |         |
| 19                  |          |           |      |         |            |         |
| 20                  |          |           |      |         |            |         |
| 21                  |          |           |      |         |            |         |
| 22                  |          |           |      |         |            |         |
| 23                  |          |           |      |         |            |         |
| 24                  |          |           |      |         |            |         |
| 25                  |          |           |      |         |            |         |



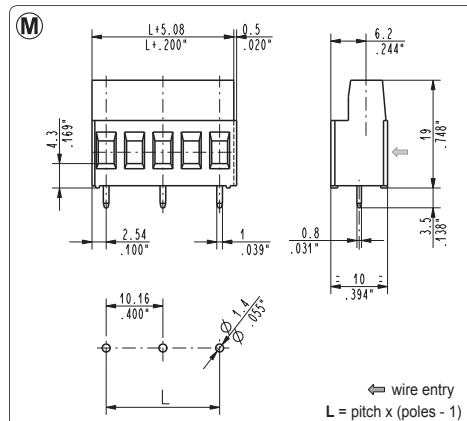
MSQ\_005 straight, modular

| 5.08 mm / .200" pitch |          | Pcs/pack. |      | W [kg]* | Pcs/Ind.** | W [kg]* |
|-----------------------|----------|-----------|------|---------|------------|---------|
| Poles                 | Code     |           |      |         |            |         |
| 02                    | MSQ02005 | 350       | 1,42 | 2000    | 8,12       |         |
| 03                    | MSQ03005 | 225       | 1,37 | 1250    | 7,61       |         |
| 04                    | MSQ04005 | 175       | 1,42 | 1000    | 8,12       |         |
| 05                    | MSQ05005 | 125       | 1,27 | 750     | 7,61       |         |
| 06                    | MSQ06005 | 125       | 1,52 | 750     | 9,14       |         |
| 07                    | MSQ07005 | 100       | 1,42 | 500     | 7,11       |         |
| 08                    | MSQ08005 | 75        | 1,22 | 500     | 8,12       |         |
| 09                    | MSQ09005 | 75        | 1,37 | 500     | 9,14       |         |
| 10                    | MSQ10005 | 75        | 1,52 | 500     | 10,15      |         |
| 11                    | MSQ11005 | 75        | 1,67 | 250     | 5,58       |         |
| 12                    | MSQ12005 | 50        | 1,22 | 250     | 6,09       |         |
| 13                    | MSQ13005 | 50        | 1,32 | 250     | 6,60       |         |
| 14                    | MSQ14005 | 50        | 1,42 | 250     | 7,11       |         |
| 15                    | MSQ15005 | 50        | 1,52 | 250     | 7,61       |         |
| 16                    | MSQ16005 | 50        | 1,62 | 250     | 8,12       |         |
| 17                    | MSQ17005 | 50        | 1,73 | 200     | 6,90       |         |
| 18                    | MSQ18005 | 50        | 1,83 | 200     | 7,31       |         |
| 19                    | MSQ19005 | 25        | 0,96 | 200     | 7,71       |         |
| 20                    | MSQ20005 | 25        | 1,02 | 200     | 8,12       |         |
| 21                    | MSQ21005 | 25        | 1,07 | 200     | 8,53       |         |
| 22                    | MSQ22005 | 25        | 1,12 | 200     | 8,93       |         |
| 23                    | MSQ23005 | 25        | 1,17 | 200     | 9,34       |         |
| 24                    | MSQ24005 | 25        | 1,22 | 150     | 7,31       |         |
| 25                    | MSQ25005 | 25        | 1,27 | 150     | 7,61       |         |



MSQ\_007 straight, modular

| 7.62 mm / .300" pitch |          | Pcs/pack. |      | W [kg]* | Pcs/Ind.** | W [kg]* |
|-----------------------|----------|-----------|------|---------|------------|---------|
| Poles                 | Code     |           |      |         |            |         |
| 02                    | MSQ02007 | 225       | 1,08 | 1250    | 6,00       |         |
| 03                    | MSQ03007 | 150       | 1,08 | 750     | 5,40       |         |
| 04                    |          |           |      |         |            |         |
| 05                    |          |           |      |         |            |         |
| 06                    |          |           |      |         |            |         |
| 07                    |          |           |      |         |            |         |
| 08                    |          |           |      |         |            |         |
| 09                    |          |           |      |         |            |         |
| 10                    |          |           |      |         |            |         |
| 11                    |          |           |      |         |            |         |
| 12                    |          |           |      |         |            |         |
| 13                    |          |           |      |         |            |         |
| 14                    |          |           |      |         |            |         |
| 15                    |          |           |      |         |            |         |
| 16                    |          |           |      |         |            |         |
| 17                    |          |           |      |         |            |         |
| 18                    |          |           |      |         |            |         |
| 19                    |          |           |      |         |            |         |
| 20                    |          |           |      |         |            |         |
| 21                    |          |           |      |         |            |         |
| 22                    |          |           |      |         |            |         |
| 23                    |          |           |      |         |            |         |
| 24                    |          |           |      |         |            |         |
| 25                    |          |           |      |         |            |         |



MSQ\_006 straight, modular

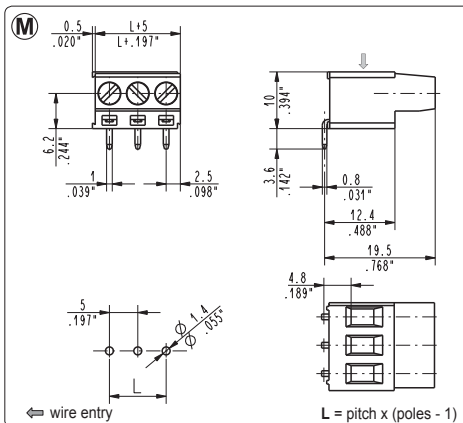
| 10.16 mm / .400" pitch |          | Pcs/pack. |      | W [kg]* | Pcs/Ind.** | W [kg]* |
|------------------------|----------|-----------|------|---------|------------|---------|
| Poles                  | Code     |           |      |         |            |         |
| 01                     | MSQ01006 | 350       | 0,82 | 2000    | 4,70       |         |
| 02                     | MSQ02006 | 225       | 1,06 | 1250    | 5,88       |         |
| 03                     | MSQ03006 | 125       | 0,88 | 750     | 5,29       |         |
| 04                     | MSQ04006 | 100       | 0,94 | 500     | 4,70       |         |
| 05                     | MSQ05006 | 75        | 0,88 | 500     | 5,88       |         |
| 06                     | MSQ06006 | 75        | 1,06 | 500     | 7,05       |         |
| 07                     | MSQ07006 | 50        | 0,82 | 250     | 4,11       |         |
| 08                     | MSQ08006 | 50        | 0,94 | 250     | 4,70       |         |
| 09                     | MSQ09006 | 50        | 1,06 | 250     | 5,29       |         |
| 10                     | MSQ10006 | 25        | 0,59 | 250     | 5,88       |         |
| 11                     | MSQ11006 | 25        | 0,65 | 250     | 6,46       |         |
| 12                     | MSQ12006 | 25        | 0,71 | 250     | 7,05       |         |
| 13                     | MSQ13006 | 25        | 0,76 | 250     | 7,64       |         |
| 14                     |          |           |      |         |            |         |
| 15                     |          |           |      |         |            |         |
| 16                     |          |           |      |         |            |         |
| 17                     |          |           |      |         |            |         |
| 18                     |          |           |      |         |            |         |
| 19                     |          |           |      |         |            |         |
| 20                     |          |           |      |         |            |         |
| 21                     |          |           |      |         |            |         |
| 22                     |          |           |      |         |            |         |
| 23                     |          |           |      |         |            |         |
| 24                     |          |           |      |         |            |         |
| 25                     |          |           |      |         |            |         |

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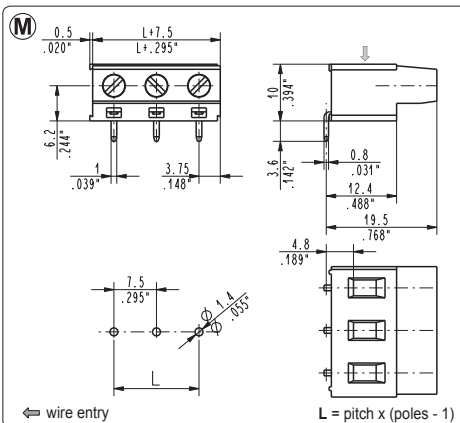


\*W [kg]: Approximate Weight per box in kg

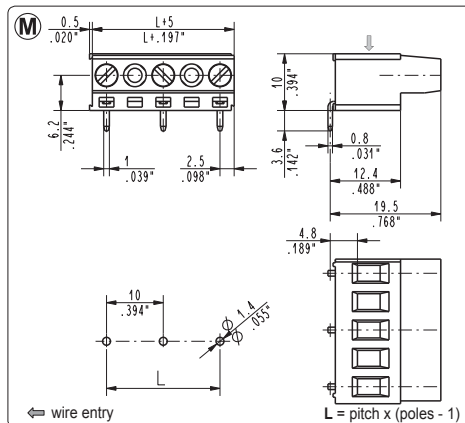
\*\*Industrial packaging: add "-00000E" at standard code

**MSQ\_091** 90°, modular

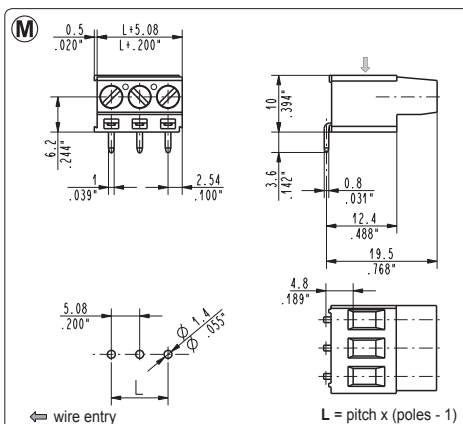
| 5 mm / .197" pitch |          | Poles | Code | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|--------------------|----------|-------|------|-----------|---------|------------|---------|
| 02                 | MSQ02091 | 350   | 1,42 | 2000      | 8,12    |            |         |
| 03                 | MSQ03091 | 225   | 1,37 | 1250      | 7,61    |            |         |
| 04                 | MSQ04091 | 175   | 1,42 | 1000      | 8,12    |            |         |
| 05                 | MSQ05091 | 125   | 1,27 | 750       | 7,61    |            |         |
| 06                 | MSQ06091 | 125   | 1,52 | 750       | 9,14    |            |         |
| 07                 | MSQ07091 | 100   | 1,42 | 500       | 7,11    |            |         |
| 08                 | MSQ08091 | 75    | 1,22 | 500       | 8,12    |            |         |
| 09                 | MSQ09091 | 75    | 1,37 | 500       | 9,14    |            |         |
| 10                 | MSQ10091 | 75    | 1,52 | 500       | 10,15   |            |         |
| 11                 | MSQ11091 | 75    | 1,67 | 250       | 5,58    |            |         |
| 12                 | MSQ12091 | 50    | 1,22 | 250       | 6,09    |            |         |
| 13                 | MSQ13091 | 50    | 1,32 | 250       | 6,60    |            |         |
| 14                 | MSQ14091 | 50    | 1,42 | 250       | 7,11    |            |         |
| 15                 | MSQ15091 | 50    | 1,52 | 250       | 7,61    |            |         |
| 16                 | MSQ16091 | 50    | 1,62 | 250       | 8,12    |            |         |
| 17                 | MSQ17091 | 50    | 1,73 | 200       | 6,90    |            |         |
| 18                 | MSQ18091 | 50    | 1,83 | 200       | 7,31    |            |         |
| 19                 | MSQ19091 | 25    | 0,96 | 200       | 7,71    |            |         |
| 20                 | MSQ20091 | 25    | 1,02 | 200       | 8,12    |            |         |
| 21                 | MSQ21091 | 25    | 1,07 | 200       | 8,53    |            |         |
| 22                 | MSQ22091 | 25    | 1,12 | 200       | 8,93    |            |         |
| 23                 | MSQ23091 | 25    | 1,17 | 200       | 9,34    |            |         |
| 24                 | MSQ24091 | 25    | 1,22 | 150       | 7,31    |            |         |
| 25                 | MSQ25091 | 25    | 1,27 | 150       | 7,61    |            |         |

**MSQ\_093** 90°, modular

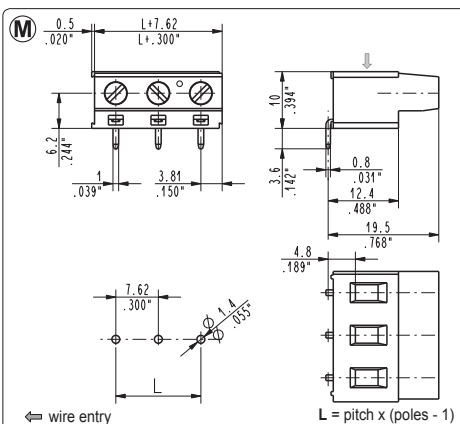
| 7.5 mm / .295" pitch |          | Poles | Code | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|----------------------|----------|-------|------|-----------|---------|------------|---------|
| 02                   | MSQ02093 | 225   | 1,08 | 1250      | 6,00    |            |         |
| 03                   | MSQ03093 | 150   | 1,08 | 750       | 5,40    |            |         |
| 04                   | MSQ04093 | 100   | 0,96 | 500       | 4,80    |            |         |
| 05                   | MSQ05093 | 75    | 0,88 | 500       | 4,70    |            |         |
| 06                   | MSQ06093 | 75    | 1,06 | 500       | 5,88    |            |         |
| 07                   | MSQ07093 | 50    | 0,82 | 250       | 4,11    |            |         |
| 08                   | MSQ08093 | 50    | 0,94 | 250       | 4,70    |            |         |
| 09                   | MSQ09093 | 50    | 1,06 | 250       | 5,29    |            |         |
| 10                   | MSQ10093 | 25    | 0,59 | 250       | 5,88    |            |         |
| 11                   | MSQ11093 | 25    | 0,65 | 250       | 6,46    |            |         |
| 12                   | MSQ12093 | 25    | 0,71 | 250       | 7,05    |            |         |
| 13                   | MSQ13093 | 25    | 0,76 | 250       | 7,64    |            |         |

**MSQ\_092** 90°, modular

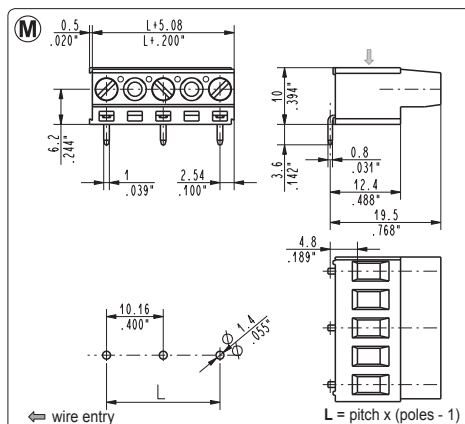
| 10 mm / .394" pitch |          | Poles | Code | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|---------------------|----------|-------|------|-----------|---------|------------|---------|
| 01                  | MSQ01092 | 350   | 0,82 | 2000      | 4,70    |            |         |
| 02                  | MSQ02092 | 225   | 1,06 | 1250      | 5,88    |            |         |
| 03                  | MSQ03092 | 125   | 0,88 | 750       | 5,29    |            |         |
| 04                  | MSQ04092 | 100   | 0,94 | 500       | 4,70    |            |         |
| 05                  | MSQ05092 | 75    | 0,88 | 500       | 5,88    |            |         |
| 06                  | MSQ06092 | 75    | 1,06 | 500       | 7,05    |            |         |
| 07                  | MSQ07092 | 50    | 0,82 | 250       | 4,11    |            |         |
| 08                  | MSQ08092 | 50    | 0,94 | 250       | 4,70    |            |         |
| 09                  | MSQ09092 | 50    | 1,06 | 250       | 5,29    |            |         |
| 10                  | MSQ10092 | 25    | 0,59 | 250       | 5,88    |            |         |
| 11                  | MSQ11092 | 25    | 0,65 | 250       | 6,46    |            |         |
| 12                  | MSQ12092 | 25    | 0,71 | 250       | 7,05    |            |         |
| 13                  | MSQ13092 | 25    | 0,76 | 250       | 7,64    |            |         |

**MSQ\_095** 90°, modular

| 5.08 mm / .200" pitch |          | Poles | Code | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-----------------------|----------|-------|------|-----------|---------|------------|---------|
| 02                    | MSQ02095 | 350   | 1,42 | 2000      | 8,12    |            |         |
| 03                    | MSQ03095 | 225   | 1,37 | 1250      | 7,61    |            |         |
| 04                    | MSQ04095 | 175   | 1,42 | 1000      | 8,12    |            |         |
| 05                    | MSQ05095 | 125   | 1,27 | 750       | 7,61    |            |         |
| 06                    | MSQ06095 | 125   | 1,52 | 750       | 9,14    |            |         |
| 07                    | MSQ07095 | 100   | 1,42 | 500       | 7,11    |            |         |
| 08                    | MSQ08095 | 75    | 1,22 | 500       | 8,12    |            |         |
| 09                    | MSQ09095 | 75    | 1,37 | 500       | 9,14    |            |         |
| 10                    | MSQ10095 | 75    | 1,52 | 500       | 10,15   |            |         |
| 11                    | MSQ11095 | 75    | 1,67 | 250       | 5,58    |            |         |
| 12                    | MSQ12095 | 50    | 1,22 | 250       | 6,09    |            |         |
| 13                    | MSQ13095 | 50    | 1,32 | 250       | 6,60    |            |         |
| 14                    | MSQ14095 | 50    | 1,42 | 250       | 7,11    |            |         |
| 15                    | MSQ15095 | 50    | 1,52 | 250       | 7,61    |            |         |
| 16                    | MSQ16095 | 50    | 1,62 | 250       | 8,12    |            |         |
| 17                    | MSQ17095 | 50    | 1,73 | 200       | 6,90    |            |         |
| 18                    | MSQ18095 | 50    | 1,83 | 200       | 7,31    |            |         |
| 19                    | MSQ19095 | 25    | 0,96 | 200       | 7,71    |            |         |
| 20                    | MSQ20095 | 25    | 1,02 | 200       | 8,12    |            |         |
| 21                    | MSQ21095 | 25    | 1,07 | 200       | 8,53    |            |         |
| 22                    | MSQ22095 | 25    | 1,12 | 200       | 8,93    |            |         |
| 23                    | MSQ23095 | 25    | 1,17 | 200       | 9,34    |            |         |
| 24                    | MSQ24095 | 25    | 1,22 | 150       | 7,31    |            |         |
| 25                    | MSQ25095 | 25    | 1,27 | 150       | 7,61    |            |         |

**MSQ\_097** 90°, modular

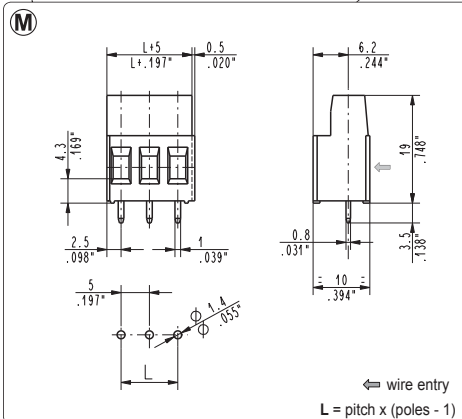
| 7.62 mm / .300" pitch |          | Poles | Code | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-----------------------|----------|-------|------|-----------|---------|------------|---------|
| 02                    | MSQ02097 | 225   | 1,08 | 1250      | 6,00    |            |         |
| 03                    | MSQ03097 | 150   | 1,08 | 750       | 5,40    |            |         |
| 04                    | MSQ04097 | 100   | 0,96 | 500       | 4,80    |            |         |
| 05                    | MSQ05097 | 75    | 0,88 | 500       | 4,70    |            |         |
| 06                    | MSQ06097 | 75    | 1,06 | 500       | 5,88    |            |         |
| 07                    | MSQ07097 | 50    | 0,82 | 250       | 4,11    |            |         |
| 08                    | MSQ08097 | 50    | 0,94 | 250       | 4,70    |            |         |
| 09                    | MSQ09097 | 50    | 1,06 | 250       | 5,29    |            |         |
| 10                    | MSQ10097 | 25    | 0,59 | 250       | 5,88    |            |         |
| 11                    | MSQ11097 | 25    | 0,65 | 250       | 6,46    |            |         |
| 12                    | MSQ12097 | 25    | 0,71 | 250       | 7,05    |            |         |
| 13                    | MSQ13097 | 25    | 0,76 | 250       | 7,64    |            |         |

**MSQ\_096** 90°, modular

| 10.16 mm / .400" pitch |          | Poles | Code | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|------------------------|----------|-------|------|-----------|---------|------------|---------|
| 01                     | MSQ01096 | 350   | 0,82 | 2000      | 4,70    |            |         |
| 02                     | MSQ02096 | 225   | 1,06 | 1250      | 5,88    |            |         |
| 03                     | MSQ03096 | 125   | 0,88 | 750       | 5,29    |            |         |
| 04                     | MSQ04096 | 100   | 0,94 | 500       | 4,70    |            |         |
| 05                     | MSQ05096 | 75    | 0,88 | 500       | 5,88    |            |         |
| 06                     | MSQ06096 | 75    | 1,06 | 500       | 7,05    |            |         |
| 07                     | MSQ07096 | 50    | 0,82 | 250       | 4,11    |            |         |
| 08                     | MSQ08096 | 50    | 0,94 | 250       | 4,70    |            |         |
| 09                     | MSQ09096 | 50    | 1,06 | 250       | 5,29    |            |         |
| 10                     | MSQ10096 | 25    | 0,59 | 250       | 5,88    |            |         |
| 11                     | MSQ11096 | 25    | 0,65 | 250       | 6,46    |            |         |
| 12                     | MSQ12096 | 25    | 0,71 | 250       | 7,05    |            |         |
| 13                     | MSQ13096 | 25    | 0,76 | 250       | 7,64    |            |         |

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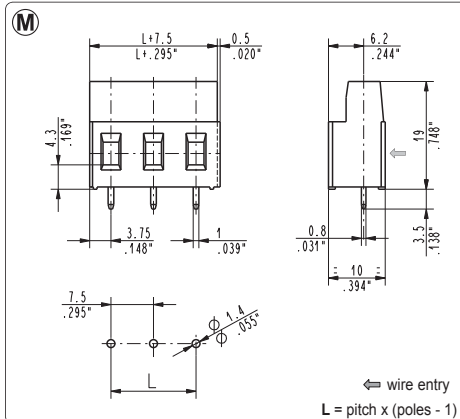




MSQ\_001-000T straight, modular

5 mm / .197" pitch

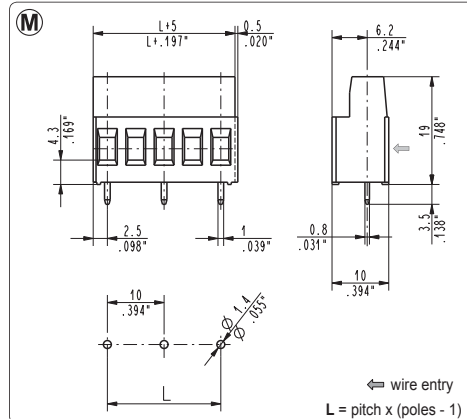
| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 02    | MSQ02001-000T | 350       | 1,42    | 2000       | 8,12    |
| 03    | MSQ03001-000T | 225       | 1,37    | 1250       | 7,61    |
| 04    | MSQ04001-000T | 175       | 1,42    | 1000       | 8,12    |
| 05    | MSQ05001-000T | 125       | 1,27    | 750        | 7,61    |
| 06    | MSQ06001-000T | 125       | 1,52    | 750        | 9,14    |
| 07    | MSQ07001-000T | 100       | 1,42    | 500        | 7,11    |
| 08    | MSQ08001-000T | 75        | 1,22    | 500        | 8,12    |
| 09    | MSQ09001-000T | 75        | 1,37    | 500        | 9,14    |
| 10    | MSQ10001-000T | 75        | 1,52    | 500        | 10,15   |
| 11    | MSQ11001-000T | 75        | 1,67    | 250        | 5,58    |
| 12    | MSQ12001-000T | 50        | 1,22    | 250        | 6,09    |
| 13    | MSQ13001-000T | 50        | 1,32    | 250        | 6,60    |
| 14    | MSQ14001-000T | 50        | 1,42    | 250        | 7,11    |
| 15    | MSQ15001-000T | 50        | 1,52    | 250        | 7,61    |
| 16    | MSQ16001-000T | 50        | 1,62    | 250        | 8,12    |
| 17    | MSQ17001-000T | 50        | 1,73    | 200        | 6,90    |
| 18    | MSQ18001-000T | 50        | 1,83    | 200        | 7,31    |
| 19    | MSQ19001-000T | 25        | 0,96    | 200        | 7,71    |
| 20    | MSQ20001-000T | 25        | 1,02    | 200        | 8,12    |
| 21    | MSQ21001-000T | 25        | 1,07    | 200        | 8,53    |
| 22    | MSQ22001-000T | 25        | 1,12    | 200        | 8,93    |
| 23    | MSQ23001-000T | 25        | 1,17    | 200        | 9,34    |
| 24    | MSQ24001-000T | 25        | 1,22    | 150        | 7,31    |
| 25    | MSQ25001-000T | 25        | 1,27    | 150        | 7,61    |



MSQ\_003-000T straight, modular

7.5 mm / .295" pitch

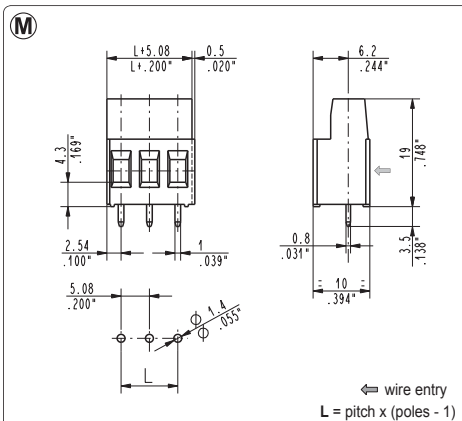
| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 02    | MSQ02003-000T | 225       | 1,08    | 1250       | 6,00    |
| 03    | MSQ03003-000T | 150       | 1,08    | 750        | 5,40    |
| 04    | MSQ04003-000T | 100       | 0,96    | 500        | 4,80    |



MSQ\_002-000T straight, modular

10 mm / .394" pitch

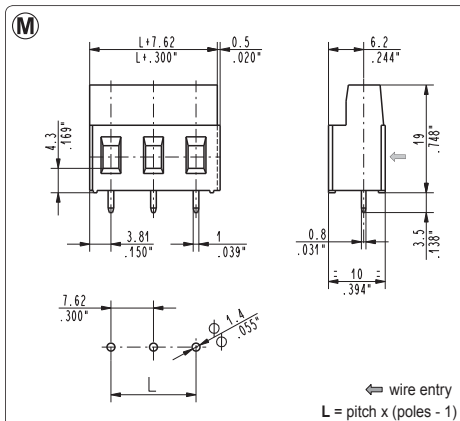
| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 01    | MSQ01002-000T | 350       | 0,82    | 2000       | 4,70    |
| 02    | MSQ02002-000T | 225       | 1,06    | 1250       | 5,88    |
| 03    | MSQ03002-000T | 125       | 0,88    | 750        | 5,29    |
| 04    | MSQ04002-000T | 100       | 0,94    | 500        | 4,70    |
| 05    | MSQ05002-000T | 75        | 0,88    | 500        | 5,88    |
| 06    | MSQ06002-000T | 75        | 1,06    | 500        | 7,05    |
| 07    | MSQ07002-000T | 50        | 0,82    | 250        | 4,11    |
| 08    | MSQ08002-000T | 50        | 0,94    | 250        | 4,70    |
| 09    | MSQ09002-000T | 50        | 1,06    | 250        | 5,29    |
| 10    | MSQ10002-000T | 25        | 0,59    | 250        | 5,88    |
| 11    | MSQ11002-000T | 25        | 0,65    | 250        | 6,46    |
| 12    | MSQ12002-000T | 25        | 0,71    | 250        | 7,05    |
| 13    | MSQ13002-000T | 25        | 0,76    | 250        | 7,64    |



MSQ\_005-000T straight, modular

5.08 mm / .200" pitch

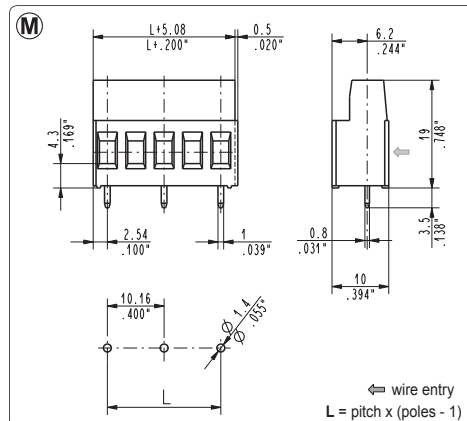
| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 02    | MSQ02005-000T | 350       | 1,42    | 2000       | 8,12    |
| 03    | MSQ03005-000T | 225       | 1,37    | 1250       | 7,61    |
| 04    | MSQ04005-000T | 175       | 1,42    | 1000       | 8,12    |
| 05    | MSQ05005-000T | 125       | 1,27    | 750        | 7,61    |
| 06    | MSQ06005-000T | 125       | 1,52    | 750        | 9,14    |
| 07    | MSQ07005-000T | 100       | 1,42    | 500        | 7,11    |
| 08    | MSQ08005-000T | 75        | 1,22    | 500        | 8,12    |
| 09    | MSQ09005-000T | 75        | 1,37    | 500        | 9,14    |
| 10    | MSQ10005-000T | 75        | 1,52    | 500        | 10,15   |
| 11    | MSQ11005-000T | 75        | 1,67    | 250        | 5,58    |
| 12    | MSQ12005-000T | 50        | 1,22    | 250        | 6,09    |
| 13    | MSQ13005-000T | 50        | 1,32    | 250        | 6,60    |
| 14    | MSQ14005-000T | 50        | 1,42    | 250        | 7,11    |
| 15    | MSQ15005-000T | 50        | 1,52    | 250        | 7,61    |
| 16    | MSQ16005-000T | 50        | 1,62    | 250        | 8,12    |
| 17    | MSQ17005-000T | 50        | 1,73    | 200        | 6,90    |
| 18    | MSQ18005-000T | 50        | 1,83    | 200        | 7,31    |
| 19    | MSQ19005-000T | 25        | 0,96    | 200        | 7,71    |
| 20    | MSQ20005-000T | 25        | 1,02    | 200        | 8,12    |
| 21    | MSQ21005-000T | 25        | 1,07    | 200        | 8,53    |
| 22    | MSQ22005-000T | 25        | 1,12    | 200        | 8,93    |
| 23    | MSQ23005-000T | 25        | 1,17    | 200        | 9,34    |
| 24    | MSQ24005-000T | 25        | 1,22    | 150        | 7,31    |
| 25    | MSQ25005-000T | 25        | 1,27    | 150        | 7,61    |



MSQ\_007-000T straight, modular

7.62 mm / .300" pitch

| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 02    | MSQ02007-000T | 225       | 1,08    | 1250       | 6,00    |
| 03    | MSQ03007-000T | 150       | 1,08    | 750        | 5,40    |



MSQ\_006-000T straight, modular

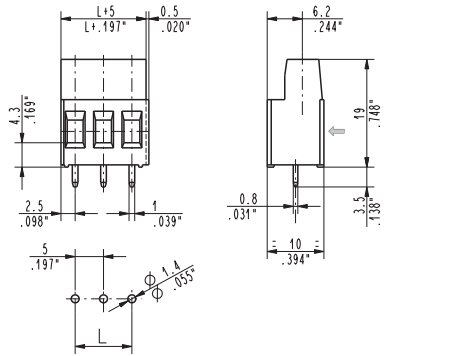
10.16 mm / .400" pitch

| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 01    | MSQ01006-000T | 350       | 0,82    | 2000       | 4,70    |
| 02    | MSQ02006-000T | 225       | 1,06    | 1250       | 5,88    |
| 03    | MSQ03006-000T | 125       | 0,88    | 750        | 5,29    |
| 04    | MSQ04006-000T | 100       | 0,94    | 500        | 4,70    |
| 05    | MSQ05006-000T | 75        | 0,88    | 500        | 5,88    |
| 06    | MSQ06006-000T | 75        | 1,06    | 500        | 7,05    |
| 07    | MSQ07006-000T | 50        | 0,82    | 250        | 4,11    |
| 08    | MSQ08006-000T | 50        | 0,94    | 250        | 4,70    |
| 09    | MSQ09006-000T | 50        | 1,06    | 250        | 5,29    |
| 10    | MSQ10006-000T | 25        | 0,59    | 250        | 5,88    |
| 11    | MSQ11006-000T | 25        | 0,65    | 250        | 6,46    |
| 12    | MSQ12006-000T | 25        | 0,71    | 250        | 7,05    |
| 13    | MSQ13006-000T | 25        | 0,76    | 250        | 7,64    |

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M



⇐ wire entry

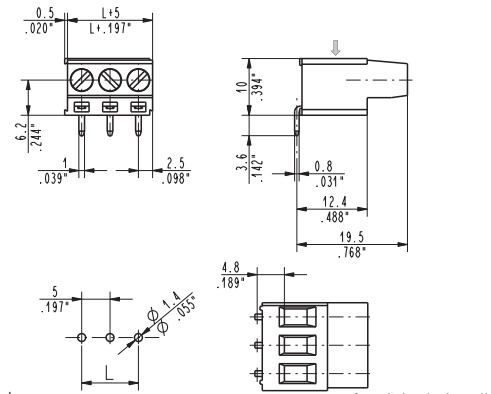
L = pitch x (poles - 1)

**MSQ\_001-000C** straight, modular, short circuited

5 mm / .197" pitch

| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 02    | MSQ02001-000C | 350       | 1,43    | 2000       | 8,16    |
| 03    | MSQ03001-000C | 225       | 1,38    | 1250       | 7,65    |

M



⇐ wire entry

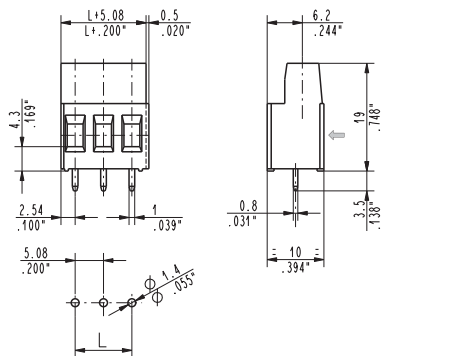
L = pitch x (poles - 1)

**MSQ\_091-000C** straight, modular, short circuited

5 mm / .197" pitch

| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 02    | MSQ02091-000C | 350       | 1,43    | 2000       | 8,16    |
| 03    | MSQ03091-000C | 225       | 1,38    | 1250       | 7,65    |

M



⇐ wire entry

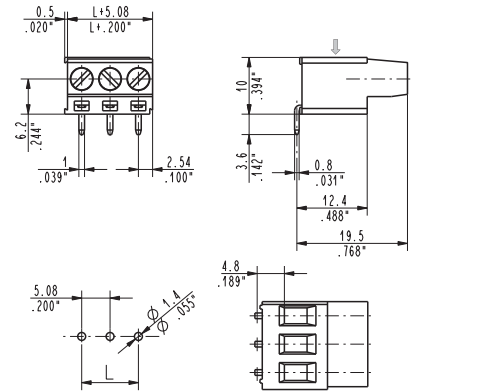
L = pitch x (poles - 1)

**MSQ\_005-000C** straight, modular, short circuited

5.08 mm / .200" pitch

| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 02    | MSQ02005-000C | 350       | 1,43    | 2000       | 8,16    |
| 03    | MSQ03005-000C | 225       | 1,38    | 1250       | 7,65    |

M



⇐ wire entry

L = pitch x (poles - 1)

**MSQ\_095-000C** straight, modular, short circuited

5.08 mm / .200" pitch

| Poles | Code          | Pcs/pack. | W [kg]* | Pcs/Ind.** | W [kg]* |
|-------|---------------|-----------|---------|------------|---------|
| 02    | MSQ02095-000C | 350       | 1,43    | 2000       | 8,16    |
| 03    | MSQ03095-000C | 225       | 1,38    | 1250       | 7,65    |

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