

GSE
GSE 10/3/180 4.5GR
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

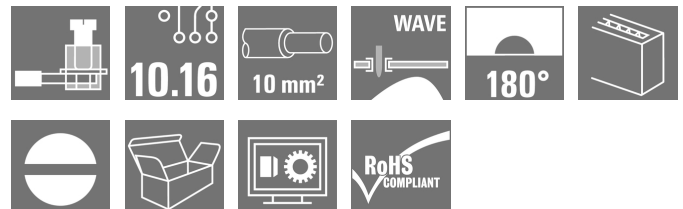
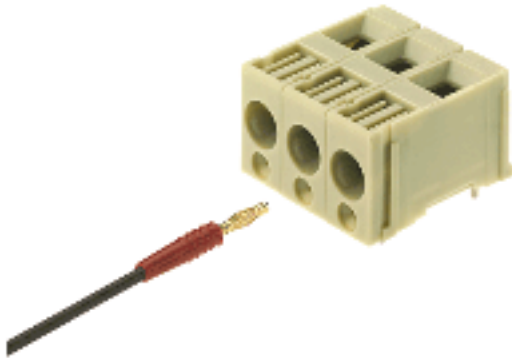
D-32758 Detmold

Germany

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www.weidmueller.com



Low form PCB terminal for 10 mm² conductor cross-section and 57 A, with proven clamping yoke connection at 10.00 mm pitch, conductor outlet direction 180°.

- 0.50 - 10.0 mm² (IEC) / 26 - 8 AWG (UL)
- 1000 V (IEC) / 300 V (UL)
- 57 A (IEC) / 40 A (UL)

General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2018-12-31
Type	GSE 10/3/180 4.5GR
Order No.	0478900000
Version	PCB terminal, 10.16 mm, No. of poles: 3, 180°, Solder pin length (l): 4.5 mm, tinned, Pebble grey, Clamping yoke connection, Clamping range, max. : 11 mm ² , Box
GTIN (EAN)	4008190134389
Qty.	20 pc(s).
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm ² UL: 300 V / 40 A / AWG 26 - AWG 8
Packaging	Box

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Technical data
Dimensions and weights

Net weight	29.55 g
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System parameters

Product family	GSE	Wire connection method	Clamping yoke connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	180°
Pitch in mm (P)	10.16 mm	Pitch in inches (P)	0.4 inch
No. of poles	3	Fitted by customer	Yes
Max. adjacent poles per row	10	Solder pin length (l)	4.5 mm
Solder pin dimensions	1.4 x 1.4 mm	Solder eyelet hole diameter (D)	1.6 mm
Solder eyelet hole diameter tolerance (D)+ 0,1 mm		Number of solder pins per pole	2
Screwdriver blade	1.0 x 5.5	Screwdriver blade standard	DIN 5264-A
Tightening torque, min.	1.2 Nm	Tightening torque, max.	1.2 Nm
Clamping screw	M 4	Stripping length	10 mm
L1 in mm	20.32 mm	L1 in inches	0.8 inch
Touch-safe protection acc. to DIN VDE 0470	IP 20		

Material data

Insulating material	PA	Colour	Pebble grey
Colour chart (similar)	RAL 7032	Insulating material group	I
CTI	≥ 600	Insulation resistance	≥ 10 ⁸ Ω
UL 94 flammability rating	V-2	Contact material	E-Cu
Contact surface	tinned	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²	Clamping range, max.	11 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 8
Solid, min. H05(07) V-U	0.5 mm ²	Solid, max. H05(07) V-U	10 mm ²
Stranded, min. H07V-R	6 mm ²	Stranded, max. H07V-R	10 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²	Flexible, max. H05(07) V-K	10 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.75 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	4 mm ²
w. wire end ferrule, DIN 46228 pt 1, min	0.75 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	4 mm ²

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Ta = 20°C)	57 A
Rated current, max. no. of poles (Ta = 20°C)	40 A	Rated current, min. no. of poles (Ta = 40°C)	57 A
Rated current, max. no. of poles (Ta = 40°C)	34 A	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/2	500 V	Rated voltage for surge voltage class / pollution degree III/3	400 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV		

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Technical data
Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

12400-250

Rated voltage (Use group B)	300 V
Rated current (use group B)	40 A
Wire cross-section, AWG, min.	AWG 26
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (use group D)	300 V
Rated current (use group D)	10 A
Wire cross-section, AWG, max.	AWG 8

Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (use group B)	300 V
Rated voltage (use group D)	300 V
Rated current (use group C)	40 A
Wire cross-section, AWG, min.	AWG 26
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (use group C)	150 V
Rated current (use group B)	40 A
Rated current (use group D)	10 A
Wire cross-section, AWG, max.	AWG 8

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002643
ETIM 5.0	EC002643	ETIM 6.0	EC002643
UNSPSC	30-21-18-01	eClass 6.2	27-26-11-01
eClass 7.1	27-44-04-01	eClass 8.1	27-44-04-01
eClass 9.0	27-44-04-01	eClass 9.1	27-44-04-01

Notes

Notes

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

IPC conformity

The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

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Technical data

Approvals

Approvals



ROHS

Conform

Downloads

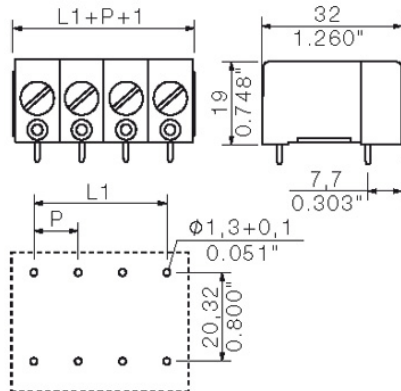
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL APPL. INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD
Engineering Data	GSE.zip

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Drawings

Dimensional drawing



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Accessories

Additional accessories



No task is too small when creating the perfect solution.

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but essential details:

- Test plugs ensure reliable pick-up from diagnostic sockets

In tandem with the manufacturing process and application.

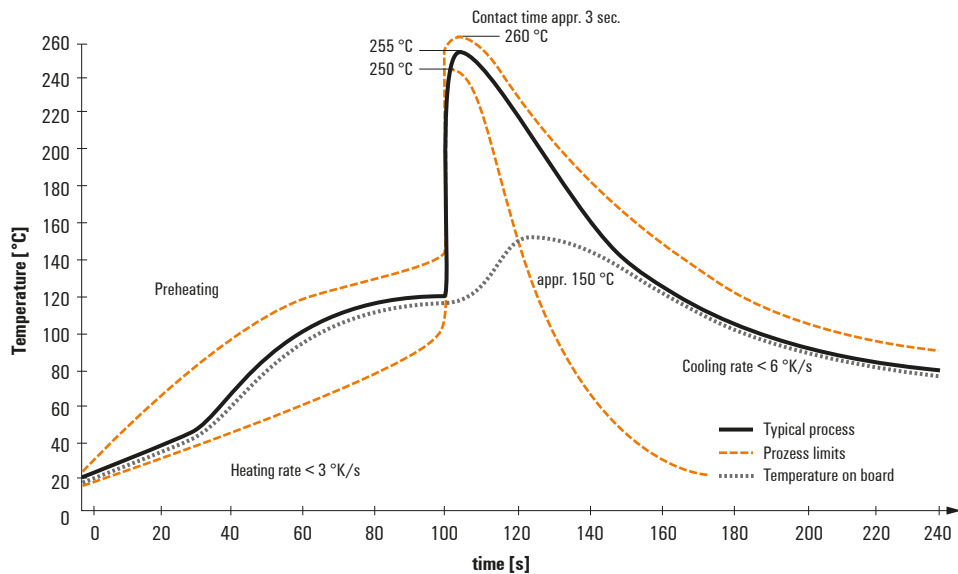
General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
PS 2.0 MC	0310000000	PCB plug-in connector, Accessories, Test plug, Red, No. of poles: 1	4008190000059	20 pc(s).	UL:	Box

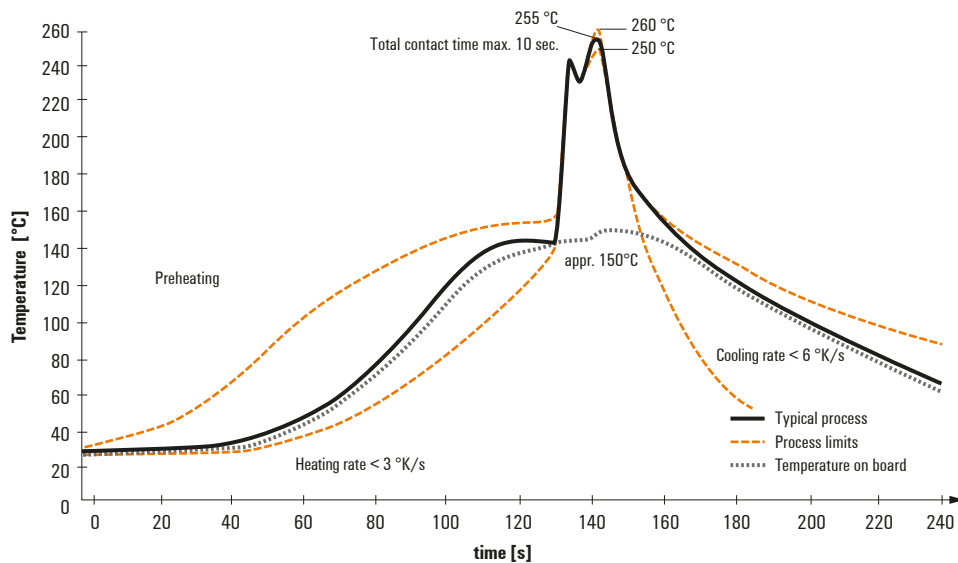
Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.