

HV2700/3-M12 F

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The efficient and reliable distribution of electrical power in a challenging environment requires interface solutions that are optimally designed for the special characteristics of a particular application. Perfect interplay is what you get with our high-current terminal solutions combined with Klippon® Protect enclosures in a weather-proof design. Our HV 2700 und HV 4000 high-voltage terminals provide you with a modular and scalable system which, thanks to the ring cable lug connection system, is a globally recognised and proven railway technology and easy to install anywhere in the world. The products are tested and comply with the requirements of the technical standards EN 50155, EN 50124-1, EN 45545 and IEC 61373. Our products are subject to ongoing product monitoring and development.

We have put together a small selection for you, but we are happy to configure a bespoke solution. Customised installation

The challenges for the future are reducing costs and increasing efficiency. This requires intelligent, individual solutions which are tailored to your requirements. In our application spectrum

we offer you a highly qualified customer-specific manufacturing service.

Whether you need modified products, pre-assembled terminal rails or complete small cabinets: we produce the solutions developed for your application quickly and flexibly.

General ordering data

Version	Bolt-type screw terminals, Feed-through terminal, Screw connection
Order No.	2540690000
Type	HV2700/3-M12 F
GTIN (EAN)	4050118554373
Qty.	1 items

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Technical data

Approvals

ROHS	Conform
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Dimensions and weights

Depth	220 mm	Depth (inches)	8.6614 inch
Height	90 mm	Height (inches)	3.5433 inch
Width	240 mm	Width (inches)	9.4488 inch
Diameter	12 mm	Mounting dimension - height	130 mm
Mounting dimension - width	215 mm	Net weight	4800 g

Temperatures

Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	140 °C
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Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Material data

Basic material	Glass fibre-reinforced polyester	Colour	red
UL 94 flammability rating	V-0		

System specifications

End cover plate required	No	Number of potentials	3
Number of levels	1	Number of clamping points per level	3
Number of potentials per tier	1	Levels cross-connected internally	No
Mounting rail	Mounting plate		

Additional technical data

Explosion-tested version	No	Type of mounting	Mounting plate
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Conductors for clamping (rated connection)

Cable lug to DIN 46234	10...185 mm ²	Wire connection cross section AWG, max.	AWG 16
Connection direction	top	Tightening torque, max.	35 Nm
Tightening torque, min.	33 Nm	Type of connection	Screw connection
Number of connections	6	Clamping range, max.	240 mm ²
Clamping range, min.	10 mm ²	Clamping range, bolted connection , max.	185.00 mm ²
Clamping range, bolted connection , min.	10 mm ²	Clamping screw	M 12
Wire connection cross section AWG, min.	AWG 6	Wire connection cross section, finely stranded, max.	185 mm ²
Wire connection cross section, finely stranded, min.	10 mm ²	Stud size for spade connection	M 12
Wire connection cross-section, solid core, max.	240 mm ²	Connection cross-section, finely stranded, max.	185 mm ²
Connection cross-section, finely stranded, min.	10 mm ²	2 x cable lugs DIN 46 235	25 to 240 mm ²
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Dimensions

Diameter	12 mm
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General

Number of poles	2	Wire connection cross section AWG, max.	AWG 16
Operating temperature range, max.	140 °C	Operating temperature range, min.	-50 °C
Wire connection cross section AWG, min.	AWG 6	Standards	EN 45545-2:2020, NFPA 130 ASTM E 162/ 662, BSS 7239/ 7242
Mounting rail	Mounting plate		

Rating data

Rated cross-section	185 mm ²	Rated voltage	2700 V
Rated DC voltage	2700 V	Voltage with epoxy resin partition plate	2700 V
Nominal current	600 A	Current at maximum wires	600 A
Standards	EN 45545-2:2020, NFPA 130 ASTM E 162/ 662, BSS 7239/ 7242	Rated impulse withstand voltage	30 kV
Impulse voltage with epoxy resin partition plate	30 kV	Pollution severity	3

Classifications

ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		