

HV4000/3-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.	2496050000
Type	HV4000/3-M12 F
GTIN (EAN)	4050118538373
Qty.	1 pc(s).

HV4000/3-M12 F

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Technical data

Dimensions and weights

Depth	96.1 mm	Depth (inches)	3.783 inch
Height	220 mm	Height (inches)	8.661 inch
Width	240 mm	Width (inches)	9.449 inch
Diameter	11 mm	Mounting dimension - height	130 mm
Mounting dimension - width	240 mm	Net weight	4,900 g

Temperatures

Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	140 °C
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Material data

Colour	red	UL 94 flammability rating	V-0
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System specifications

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

Additional technical data

Explosion-tested version	No
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Conductors for clamping (rated connection)

Cable lug to DIN 46234	10...240 mm ²	Clamping range, bolted connection , max.	240 mm ²
Clamping range, bolted connection , min.	10 mm ²	Clamping range, max.	240 mm ²
Clamping range, min.	10 mm ²	Clamping screw	M 12
Connection cross-section, finely stranded, max.	240 mm ²	Connection cross-section, finely stranded, min.	10 mm ²
Connection direction	on side	Number of connections	6
Stud size for spade connection	M 12	Tightening torque, max.	65 Nm
Tightening torque, min.	63 Nm	Type of connection	Screw connection
Wire connection cross section AWG, max.	kcmil 500	Wire connection cross section AWG, min.	AWG 6
Wire connection cross section, finely stranded, max.	240 mm ²	Wire connection cross section, finely stranded, min.	10 mm ²

Dimensions

Diameter	11 mm
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General

Rail	Mounting plate	Standards	EN 45545-2:2020, NFPA 130 ASTM E 162/ 662, BSS 7239/ 7242
Wire connection cross section AWG, max.	kcmil 500	Wire connection cross section AWG, min.	AWG 6

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Technical data

Rating data

Rated cross-section	240 mm ²	Rated voltage	4,000 V
Voltage with epoxy resin partition plate	4,000 V	Rated 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 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 9.0	27-14-11-20
ECLASS 9.1	27-14-11-20	ECLASS 10.0	27-14-11-20
ECLASS 11.0	27-14-11-20	ECLASS 12.0	27-14-11-20
ECLASS 13.0	27-25-01-01	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

Environmental Product Compliance

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

Approvals

ROHS	Conform
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Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format