

DEHNGUARD Rail Assembly Surge Protection

The DEHNGUARD rail assembly from Wieland is a “Bolt-On” solution that offers a simple method to have a Class II surge protector designed to protect equipment against general voltage surges up to 40kA (8/20 waveform). The modules are wired in parallel to the main/branch supply. The assembly will create an open circuit when replacement of the plug module is required, and the local indication (red/green window) and remote indication (250V AC/DC floating changeover dry contact) are also provided for module status.

3-LINE VERSION(S)

Part #: 34.202.3105.0

208/240 VAC Applications*

Part #: 34.202.3078.1

380/480/600 VAC Applications*

4-LINE VERSION(S)

Part #: 34.202.3106.0

208/240 VAC Applications*

Part #: 34.202.3079.1

380/480/600 VAC Applications*

1 - WEF End Stop

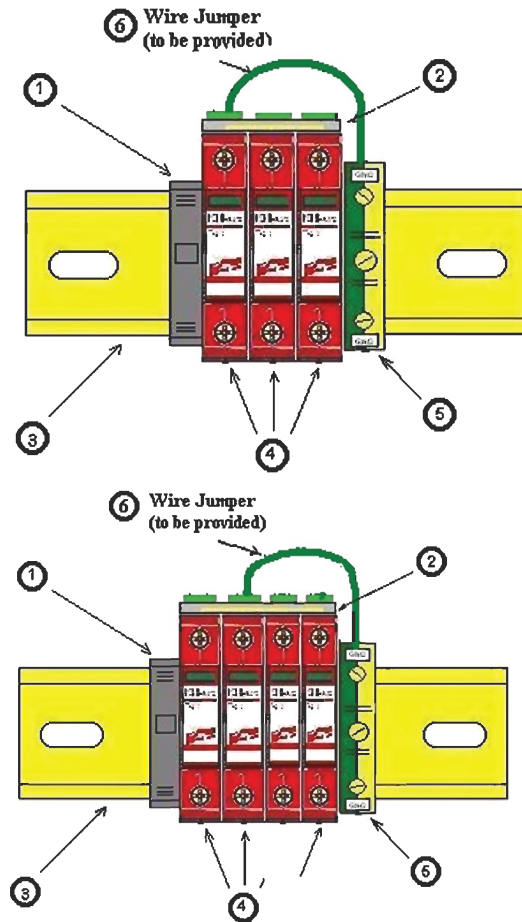
2 - Comb Jumper - 3-Pole for 3 Line Applications / 4-Line Applications

3 - DIN-Rail TS - 35 x 7.5 w/ mounting slots (110mm for 3-wire / 130mm for 4-wire)

4 - DEHNguard Protection Modules (3 for 3 Line Applications / 4 for 4-Line Applications)

5 - WKN 16 SL/U Groundblock

6 - Wire Jumper - Commons Ground Block to DEHNguard Modules



for sure, its **DEHN...**
from **WIELAND!**

*These rail assembly configurations are for general purpose protection. (see the attached Technical Data Sheet (p.2) for specific module ratings. If additional levels of protection are required for more sensitive equipment, contact your Wieland rep for assistance.

Electronics

DEHNGUARD Technical Details...

INSTALLATION INSTRUCTIONS

DEHNGuard^{DT} ... (FM)
 U_c Code: 75 V, 150 V, 275 V, 320 V, 385 V, 440 V, 600 V

Technical Data / Technische Daten

U _c	75 V	150 V	275 V	320 V	385 V	440 V	600 V
i _n	125 A gL/gG	125 A gL/gG	20 A	15 A	15 A	15 A	100 A gL/gG
T _{amb}	-40°C ... +80°C						
P _{max}	20						
Wiring	0.2 mm	0.2 mm	0.2 mm	0.2 mm	0.2 mm	0.2 mm	0.2 mm
Terminal	25 mm ²	35 mm ²	35 mm ²	35 mm ²	35 mm ²	35 mm ²	35 mm ²
Terminal	6 mm ² Cu	6 mm ² Cu	6 mm ² Cu	6 mm ² Cu	6 mm ² Cu	6 mm ² Cu	6 mm ² Cu

Backup Fuse / Vorsicherung

DEHNGuard T ... (FM)	
U _c Code: 75 V, 150 V, 275 V, 320 V, 385 V, 440 V, 600 V	
F1	P1 = 125 A gL/gG P2 = 100 A gL/gG
F2	P1 = 125 A gL/gG P2 = 100 A gL/gG
A	min. 6 mm ² Cu

Fig. a TT 3+1

Coordination / Koordination

FM-Function / FM-Funktion

Fault Indication / Defektanzeige

Remote Alarm Terminal / Fernmeldekontakt

DEHNGuard^{DT} ... FM

U_c Code: AC: 250 V / 0.5 A
 DC: 250 V / 0.1 A
 125 V / 0.2 A
 75 V / 0.5 A

max. 5 mm²

p.t.o. Safety

DG Replacement Plugs:
 1) T275 - #34.241.0034.0
 2) T600 - #34.241.0031.0

For original technical details ask for Installation Instructions #1345...

Technical Specifications	DEHNGuard 275	DEHNGuard 600	
Rated Voltage (max. continuous operating voltage)	U _c 275 VAC 350 VDC	600 VAC 600 VDC	Mounts on DIN rail TS - 35
Nominal discharge current (8/20)	i _{in} (I _n *) 20 kA	15 kA	Enclosure Material is Red thermoplastic (UL94-V0)
Maximum discharge current (8/20)	I _{max} 40 kA	40 kA	Degree of protection IP 20
Voltage protection level at 5kA (8/20) at I _n	U _p up to 1 kV up to 1.5 kV	up to 2.5 kV up to 3 kV	Approved by UL, CSA, KEMA, VDE
Response time	t _A less than 25 ns	less than 25 ns	Test Standards: IEC 61643-1: 1998-02 EN 61643-11:2001 E DIN VDE 0675-6:1989-11 and -6/A1:1996-03
Backup fuse (only required if not already provided in mains)	125 A gL/gG	100 A gL/gG	Type of remote signalization - changeover contact
Short-circuit withstand capability at max. backup fuse	50 kA / 50 Hz	25 kA / 50 Hz	Switching capacity U _N / I _N AC: 250 V / 0.5 A DC: 250 V / 0.1 A 125 V / 0.2 A 75 V / 0.5 A
Operating temperature range	-40 °C ... +80 °C	-40 °C ... +80 °C	Cross-sectional area remote signalization terminals max. 1.5 mm ² solid/flexible
Cross-sectional area	min. 1.5 mm ² solid/flexible max. 35 mm ² stranded / 25 mm ² flexible	min. 1.5 mm solid/flexible max. 35 mm ² stranded / 25 mm ² flexible	

...ant description according to EN 61643-11:2001



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