PTPOWER 50 P-3L/N/FE-F - High-current terminal block

1091229

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High-current terminal block, with test socket, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 8, number of positions: 5, connection method: PowerTurn connection, 1 level, cross section: 10 mm^2 - 70 mm^2, mounting type: direct screw connection, color: gray/black-yellow

Technical data

Product properties

Product type	High current terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	5
Pitch	20 mm
Number of connections	8
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.73 W

Connection data

Number of connections per level	8
Nominal cross section	50 mm²
Rated cross section AWG	2/0

1 level

Stripping length	30 mm ... 32 mm
Internal cylindrical gage	A10
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	10 mm² ... 70 mm²
Cross section AWG	6 ... 2/0 (converted acc. to IEC)
Conductor cross section flexible	10 mm² ... 70 mm²
Conductor cross section, flexible [AWG]	6 ... 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm² ... 50 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	10 mm² ... 50 mm²
Cross-section with insertion bridge, rigid	10 mm² ... 50 mm²
Cross-section with insertion bridge, flexible	10 mm² ... 50 mm²
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	10 mm² ... 50 mm²
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	10 mm² ... 50 mm²
Nominal current	150 A
Maximum load current	150 A (with 50 mm² conductor cross section)
Nominal voltage	1000 V

1 level Connection cross sections directly pluggable

Conductor cross section rigid	10 mm² ... 70 mm²
Conductor cross section, rigid [AWG]	8 ... 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm² ... 50 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	10 mm² ... 50 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔx II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1206612 SZF 3-1,0X5,5
	1201662 E/AL-NS 35
List of bridges	/ EB 2-20/PT / 3260067
	/ EB 3-20/PT / 3260068
Bridge data	131 A / 50 mm²
Ex temperature increase	40 K (147 A / 50 mm²)
Rated voltage	1100 V
at bridging with insertion bridge	1100 V
Rated insulation voltage	1000 V
output	(Permanent)

Ex level General

Rated current	134 A
Maximum load current	134 A
Contact resistance	0.16 mΩ

Ex connection data General

Ferrule length	30 mm ... 32 mm
Stripping length	30 mm
Nominal cross section	50 mm²
Rated cross section AWG	1/0
Connection capacity rigid	10 mm² ... 70 mm²
Connection capacity AWG	8 ... 2/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	16 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm²

Dimensions

Width	100 mm
Height	101 mm
Depth on NS 35/15	105 mm
Drill hole spacing	123.4 mm
Hole diameter	6.5 mm
Pitch	20 mm

Material specifications

Color	gray/black-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

Mechanical properties

Mechanical data

Open side panel	No

Technical data

Drill hole spacing	123.4 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1

Mounting

Mounting type	direct screw connection

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