High-current terminal block - PTPOWER 150 F - 3215030

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High-current terminal block, Connection method: Power-Turn connection, Number of positions: 1, Cross section: 50 mm² - 150 mm², AWG: 1/0 - 300 kcmil, Width: 31 mm, Height: 108.3 mm, Color: gray, Mounting type: ct screw connection

Product Features

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design enables wiring in a confined space
- In addition to using the existing test connection, pick-off terminal blocks can be connected, each of which can also accommodate two test cables

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	3 pc
Weight per Piece (excluding packing)	360.0 g
Custom tariff number	85369010
Country of origin	Poland

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	150 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III

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Technical data

General

Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	309 A (with 150 mm² conductor cross section)
Nominal current I_N	309 A
Nominal voltage U_N	1500 V
Open side panel	No
Number of positions	1
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	14.8 kV
Result of power-frequency withstand voltage test	Test passed
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	50 mm² / 9.5 kg
	150 mm² / 15 kg
Tensile test result	Test passed
Conductor cross section tensile test	50 mm²
Tractive force setpoint	236 N
Conductor cross section tensile test	150 mm²
Tractive force setpoint	427 N
Result of tight fit on support	Test passed
Setpoint	15 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	150 mm²
Short-time current	18 kA
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s

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Technical data

General

Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	0.964 $(m/s^2)^2/Hz$
Acceleration	0.58 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	31 mm
Length	150 mm
Height	108.3 mm
Hole diameter	6.5 mm
Drill hole spacing	137.20 mm

Connection data

Connection method	Power-Turn connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	50 mm²
Conductor cross section solid max.	150 mm²
Conductor cross section AWG min.	1/0
Conductor cross section AWG max.	300 kcmil
Conductor cross section flexible min.	50 mm²
Conductor cross section flexible max.	150 mm²
Min. AWG conductor cross section, flexible	1/0
Max. AWG conductor cross section, flexible	300 kcmil
Conductor cross section flexible, with ferrule without plastic sleeve min.	50 mm²

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Technical data

Connection data

Conductor cross section flexible, with ferrule without plastic sleeve max.	95 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	50 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	95 mm²
Cross section with insertion bridge solid min.	50 mm²
Cross section with insertion bridge, solid max.	150 mm²
Cross section with insertion bridge stranded min.	50 mm²
Cross section with insertion bridge, stranded max.	150 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	50 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve max.	95 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	50 mm²
Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.	95 mm²
Cross section with insertion bridge, solid max.	150 mm²
Cross section with insertion bridge, stranded max.	150 mm²
Stripping length	40 mm
Internal cylindrical gage	B14

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

Classifications

eCl@ss

eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 4.0	EC000897
ETIM 5.0	EC000897

Approvals

Approvals

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Approvals

Approvals

EAC / LR / BV / GL / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

EAC

LR

BV

GL

UL Recognized

	B	C
mm²/AWG/kcmil	2-300	2-300
Nominal current IN	270 A	270 A
Nominal voltage UN	1000 V	1000 V

cUL Recognized

	C
mm²/AWG/kcmil	2-300
Nominal current IN	270 A
Nominal voltage UN	1000 V

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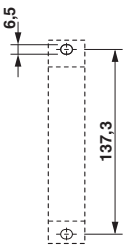
Approvals

cULus Recognized

Drawings

Circuit diagram

Dimensional drawing



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