

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block



1172142

<https://www.phoenixcontact.com/us/products/1172142>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Function distribution block, fuse type: G / 5 x 20, nom. voltage: 24 V, nominal current: 6.3 A, connection method: Push-in connection, Load contact, Rated cross section: 4 mm², cross section: 0.2 mm²- 6 mm², connection method: Push-in connection, Line contact, Rated cross section: 16 mm², cross section: 0.5 mm²- 16 mm², mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: black

Commercial data

Item number	1172142
Packing unit	8 pc
Minimum order quantity	8 pc
Sales key	BE09
Product key	BEA135
GTIN	4063151196585
Weight per piece (including packing)	80 g
Weight per piece (excluding packing)	48.133 g
Customs tariff number	85369095
Country of origin	PL

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block



1172142

<https://www.phoenixcontact.com/us/products/1172142>

Technical data

Notes

Order information:	Fuse-link not supplied as standard
--------------------	------------------------------------

General

Note	The current is determined by the fuse used, the voltage by the fuse or selected light indicator.
	The maximum load current of a single clamping unit must not be exceeded.
	For power distribution applications, IEC 60364-4-43.2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed!

Product properties

Product type	Distributor terminal block
Number of connections	7
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	1.02 W
Fuse	G / 5 x 20
LED voltage range	12 V AC/DC ... 30 V AC/DC
LED current range	0.41 mA ... 1.18 mA
Maximum power dissipation	max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload)
	max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload)
	max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit)
	max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit)

Input data

LED voltage range	12 V AC/DC ... 30 V AC/DC
-------------------	---------------------------

Connection data

Number of connections per level	7
---------------------------------	---

Load contact

Connection method	Push-in connection
Stripping length	10 mm ... 12 mm

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block



1172142

<https://www.phoenixcontact.com/us/products/1172142>

Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-3
Conductor cross-section rigid	0.2 mm ² ... 6 mm ²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm ² ... 4 mm ²
Conductor cross-section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.2 mm ² ... 0.4 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.2 mm ² ... 4 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1 mm ²
Nominal cross section	4 mm ²
Nominal current	6.3 A (the current is determined by the fuse used)
Maximum load current	6.3 A (with 4 mm ² conductor cross-section)
Maximum total current	37.8 A (The maximum load current of the individual terminal point must not be exceeded.)
Nominal voltage	24 V (the voltage is determined by the light indicator.)

Line contact

Connection method	Push-in connection
Stripping length	12 mm ... 14 mm
Conductor cross-section rigid	0.5 mm ² ... 16 mm ²
Cross section AWG	20 ... 6 (converted acc. to IEC)
Conductor cross-section flexible	0.5 mm ² ... 10 mm ²
Conductor cross-section, flexible [AWG]	20 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 10 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm ² ... 10 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 4 mm ²
Nominal cross section	16 mm ²
Nominal current	37.8 A
Maximum load current	37.8 A (with 10 mm ² conductor cross-section)
Maximum total current	The maximum load current of the individual terminal point must not be exceeded.

Load contact Connection cross sections directly pluggable

Conductor cross-section rigid	0.5 mm ² ... 6 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 4 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm ² ... 4 mm ²

Line contact Connection cross sections directly pluggable

Conductor cross-section rigid	1.5 mm ² ... 10 mm ²
Conductor cross-section, rigid [AWG]	16 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm ² ... 10 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	1.5 mm ² ... 10 mm ²

Dimensions

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block



1172142

<https://www.phoenixcontact.com/us/products/1172142>

Width	87.8 mm
Height	28.6 mm
Depth	35.4 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Mechanical properties

Mechanical data

Open side panel	No
-----------------	----

Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block



1172142

<https://www.phoenixcontact.com/us/products/1172142>

Result	Test passed
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, not exceeding 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 60947-7-3
----------------------------------	---------------

Mounting

Mounting type	for snapping onto a DIN rail adapter
	Direct mounting with flange
	Free-hanging

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block

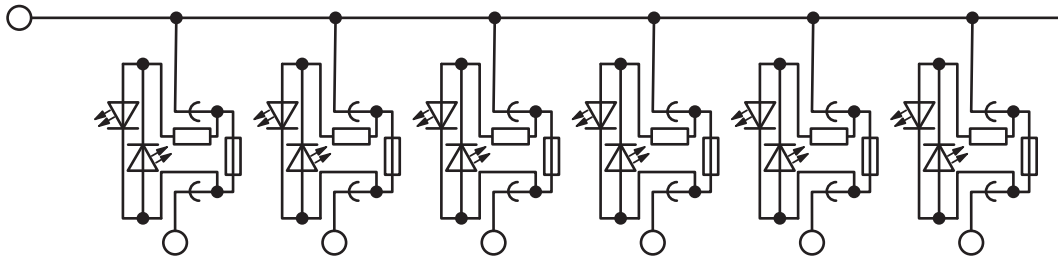


1172142

<https://www.phoenixcontact.com/us/products/1172142>

Drawings

Circuit diagram



PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block





1172142


<https://www.phoenixcontact.com/us/products/1172142>


Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1172142>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
Output	300 V	6.3 A	24 - 10	-
Input	300 V	40 A	20 - 8	-

 IECEE CB Scheme Approval ID: NL-77613				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	-	-	-

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
Output	300 V	6.3 A	24 - 10	-
Input	300 V	40 A	20 - 8	-
F				
Output	250 V	6.3 A	24 - 10	-
Input	250 V	40 A	20 - 8	-

 KEMA-KEUR Approval ID: 71-121479				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	-	-	-

DNV Approval ID: TAE00002TT-05				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	24 A	-	-

 EAC Approval ID: KZ7500651131219505				
---	--	--	--	--

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block



1172142

<https://www.phoenixcontact.com/us/products/1172142>

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block



1172142

<https://www.phoenixcontact.com/us/products/1172142>

Classifications

ECLASS

ECLASS-13.0	27250113
ECLASS-15.0	27250113

ETIM

ETIM 10.0	EC000899
-----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

PTFIX 10/6X4-SILED 24 (5X20) - Function distribution block



1172142

<https://www.phoenixcontact.com/us/products/1172142>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com