

3273110

https://www.phoenixcontact.com/us/products/3273110

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Distribution block, Block with vertical alignment and integrated supply, nom. voltage: 690 V, nominal current: 24 A, number of connections: 19, connection method: Push-in connection, Load contact, cross section: $0.14~\text{mm}^2$ - $4~\text{mm}^2$, Push-in connection, Line contact, Rated cross section: $6~\text{mm}^2$, cross section: $0.5~\text{mm}^2$ - $10~\text{mm}^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- Space savings of up to 50 % on the DIN rail, thanks to transverse mounting
- · Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- · Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- Time savings of up to 80 %, thanks to ready-to-mount blocks without manual bridging
- · Clear wiring, thanks to eleven different color variants

Commercial data

Item number	3273110
Packing unit	8 pc
Minimum order quantity	8 pc
Sales key	BE09
Product key	BEA124
Catalog page	Page 445 (C-1-2019)
GTIN	4055626391137
Weight per piece (including packing)	44.868 g
Weight per piece (excluding packing)	44 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Notes

General	the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories
General	
Note	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	19
Number of rows	1
Potentials	1
Insulation characteristics	
Overvoltage category	III

Electrical properties

Degree of pollution

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Service Entrance	yes
Number of connections per level	19
Nominal cross section	2.5 mm²
Rated cross section AWG	14

Load contact

Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	26 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
Nominal current	24 A
Maximum load current	32 A (with 4 mm² conductor cross section)
Maximum total current	57 A (with 10 mm² conductor cross section)



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Nominal voltage	690 V
ne contact	
Stripping length	10 mm 12 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm² 10 mm²
Cross section AWG	20 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² 10 mm²
Conductor cross section, flexible [AWG]	20 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 6 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Nominal current	41 A (with 6 mm² conductor cross section)
Maximum load current	57 A (with 10 mm² conductor cross section)
Nominal cross section	6 mm²
pad contact Connection cross sections directly pluggable	
Conductor cross section rigid	0.34 mm² 4 mm²
Conductor cross section, rigid [AWG]	24 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² 2.5 mm²
ne contact Connection cross sections directly pluggable	
Conductor cross section rigid	1 mm² 10 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm² 6 mm²
nensions	7 HIII O HIII
Width	28.6 mm
Height	58.1 mm
Depth on NS 15	30.4 mm
Depth on NS 35/7,5	32.4 mm
terial specifications	
Color	gray
Flammability rating according to UL 94	V0
Insulating material group	1
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



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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)	28 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

Electrical tests

Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 6 mm²	0.72 kA
Short-time withstand current 10 mm²	1.2 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

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Mechanical tests

Mechanical strength

Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	5 N
Result	Test passed
Note	When aligning several blocks, it is recommended to either place a DIN rail adapter underneath the connection point or a flange element between the blocks.
	For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block.
	When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.

Test for conductor damage and slackening



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Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm² / 0.3 kg
	6 mm² / 1.4 kg
	10 mm² / 2 kg
Result	Test passed
st for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed
Temperature cycles	192
Result	Test passed
edle-flame test	
Time of exposure	30 s
Result	Test passed
cillation/broadband noise	
Specification Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
ocks	
	DIN EN 50155 (VDE 0115-200):2008-03
Specification	
Specification Pulse shape	Half-sine Half-sine
•	Half-sine 30g
Pulse shape	
Pulse shape Acceleration	30g
Pulse shape Acceleration Shock duration	30g 18 ms
Pulse shape Acceleration Shock duration Number of shocks per direction	30g 18 ms 3

for max. short-term operating temperature, see RTI Elec.)



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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 %
tandards and regulations Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
ounting	
Mounting type	NS 35/7,5
	NS 35/15



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Classifications

ECLASS

	ECLASS-11.0	27141120			
	ECLASS-13.0	27250118			
ETIM					
	ETIM 9.0	EC000897			
UNSPSC					
	UNSPSC 21.0	39121400			



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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