

3273130

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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 mm² - 4 mm², Push-in connection, Line contact, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting type: NS 35/7,5, NS 35/15, color: black/yellow

Your advantages

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

Commercial data

Item number	3273130
Packing unit	8 pc
Minimum order quantity	8 pc
Sales key	BE09
Product key	BEA124
Catalog page	Page 445 (C-1-2019)
GTIN	4055626391243
Weight per piece (including packing)	45.187 g
Weight per piece (excluding packing)	45.187 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

3

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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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 (David) 20 10 (converted acc. to IEC) Conductor cross section flexible (Ferrule without plastic sleeve) 0.5 mm² 6 mm² Flexible conductor cross section flexible (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 Conductors with TWIN ferrule and plastic sleeve) 0.5 mm² 1.5 mm² Conductor with plastic sleeve 10 conductors with the same cross-section, with the same cross-section, flexible, with TWIN ferrule with plastic sleeve 10 conductors with the same cross-section flexible with plastic sleeve 10 conductor cross section 10 conductor with plastic sleeve 10 conductor cross section 10 conductor 10 conduct	Nominal voltage	690 V
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 (ferrule without plastic sleeve) 0.5 mm² 6 mm² Conductor cross-section flexible (ferrule with plastic sleeve) 0.5 mm² 6 mm² Conductor cross-section flexible (aconductors with the same cross-section, mth TWIN ferrule and plastic sleeve) 0.5 mm² 1.5 mm² Conductor cross-section flexible (aconductors with the same cross-section, with TWIN ferrule and plastic sleeve) 2.5 mm² 1.5 mm² Conductor cross-section flexible (aconductors with the same cross-section, with TWIN ferrule and plastic sleeve) 2.5 mm² 1.5 mm² Conductor with the same cross-section flexible, with TWIN ferrule with plastic sleeve) 3.5 mm² 1.5 mm² Conductors with the same cross-section flexible (mark) with the same cross-section flexible (mark) with the same cross-section flexible (mark) with plastic sleeve) 5.5 mm² 1.5 mm² Conductor cross section section sections directly pluggable Conductor cross-section flexible (ferrule without plastic sleeve) 0.34 mm² 4 mm² Conductor cross-section flexible (ferrule with plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross sections directly pluggable Conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 10 mm²	ine contact	
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Flexible conductor cross section (ferrule with plastic sleeve) Conductor cross-section flexible (2 conductors with the same cross-section) with TWIN ferrule and plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve 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 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) 1 mm² 10 mm² conductor cross-section flexible (ferrule without plastic sleeve) 1 mm² 10 mm² conductor cross-section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² 1 mm² 10 mm² conductor cross-section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² 1 mm² 6 mm² conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² conductor cross-section flexible (ferrule without plastic sleeve) 2 file file file file file file file file	Conductor cross section, flexible [AWG]	20 10 (converted acc. to IEC)
Conductor cross-section flexible (2 conductors with the same cross-section, with TWINf Ferrule and plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule and plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve Nominal current 41 A (with 6 mm² conductor cross section) Aximum load current 57 A (with 10 mm² conductor cross section) Aximum load current 57 A (with 10 mm² conductor cross section) Aximum load contact Connection cross sections directly pluggable Conductor cross section rigid Conductor cross section rigid [AWG] Conductor cross-section flexible (ferrule without plastic sleeve) And mm² 2.5 mm² Ine contact Connection cross sections directly pluggable Conductor cross-section flexible (ferrule with plastic sleeve) Conductor cross-section flexible (ferrule without plastic sleeve) Inm² 2.5 mm² Conductor cross-section flexible (ferrule with plastic sleeve) Inm² 6 mm² Flexible conductor cross-section (ferrule with plastic sleeve) Inm² 6 mm² Persible conductor cross-section flexible (ferrule with plastic sleeve) Inm² 6 mm² Relight Sa.1 mm Depth on Ns 15 30.4 mm Depth on Ns 15 Depth on Ns 357,5 32.4 mm Persible conductor cross-section flexible (ferrule with plastic sleeve) Insulating material group I linsulating material group I linsulating material application in cold Flammability rating according to UL 94 No Insulating material application in cold Flammability rating according to IL 94 Insulating material application in cold Flammability rating according to IL 94 Insulating material application in cold Flammability rating according to IL 94 Insulating material application in cold Flammability rating according to IL 94 Insulating material application in cold Flammability rating according to IL 94 Insulating material application in cold Flammability rating according to IL 94 Insulating material application in cold Flammability rating according to IL 94 Insulati	Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 6 mm²
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ferrule with plastic sleeve Nominal current A1 A (with 6 mm² conductor cross section) Maximum load current S7 A (with 10 mm² conductor cross section) Nominal cross section 6 mm² Conductor cross section rigid Conductor cross section rigid [AWG] Conductor cross section flexible (ferrule without plastic sleeve) Plexible conductor cross sections directly pluggable Conductor cross section flexible (ferrule with plastic sleeve) Conductor cross section flexible (ferrule with plastic sleeve) Plexible conductor cross sections directly pluggable Conductor cross section rigid Conductor cross section rigid 1 mm² 10 mm² Conductor cross section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² Plexible conductor cross section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² Plexible conductor cross section flexible (ferrule with plastic sleeve) 28.6 mm Height 28.6 mm Height 58.1 mm Depth on NS 15 30.4 mm Depth on NS 35/7,5 32.4 mm Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I Comperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	,	0.5 mm ² 1.5 mm ²
Maximum load current Nominal cross section 6 mm² conductor cross section conductor cross section rigid Conductor cross section rigid Conductor cross section flexible (ferrule without plastic sleeve) Flexible conductor cross section flexible (ferrule with plastic sleeve) Conductor cross section flexible (ferrule with plastic sleeve) Flexible conductor cross section flexible (ferrule with plastic sleeve) Conductor cross section flexible (ferrule with plastic sleeve) The without conductor cross section flexible (ferrule with plastic sleeve) Conductor cross section flexible (ferrule without plastic sleeve) The max 10 mm² Conductor cross section flexible (ferrule with plastic sleeve) The max 6 mm² The without cross section (ferrule with plastic sleeve) The max 6 mm² The max 6 mm² The max 6 mm² The section of the without plastic sleeve) The max 6 mm² The section of the max 10 mm² The section of th		0.5 mm ² 1.5 mm ²
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Conductor cross section rigid [AWG] 24 12 (converted acc. to IEC) 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 Flexible conductor cross section sdirectly 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 Height 28.6 mm Height 58.1 mm Depth on NS 15 30.4 mm Depth on NS 35/7,5 32.4 mm terrial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I Insulating material group I Insulating material application in cold 60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Maximum load current	57 A (with 10 mm² conductor cross section)
Conductor cross section rigid Conductor cross section, rigid [AWG] Conductor cross section (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) Conductor cross section (ferrule with plastic sleeve) Conductor cross section rigid Conductor cross section rigid Conductor cross section rigid Conductor cross section flexible (ferrule without plastic sleeve) I mm² 10 mm² Conductor cross-section flexible (ferrule without plastic sleeve) I mm² 6 mm² Flexible conductor cross section (ferrule with plastic sleeve) I mm² 6 mm² Inensions Width 28.6 mm Height 58.1 mm Depth on NS 15 Depth on NS 35/7,5 30.4 mm terrial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group Insulating material application in cold Famperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Nominal cross section	6 mm²
Conductor cross section rigid Conductor cross section, rigid [AWG] Conductor cross section (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) Conductor cross section (ferrule with plastic sleeve) Conductor cross section section directly pluggable Conductor cross section flexible (ferrule without plastic sleeve) Conductor cross section flexible (ferrule without plastic sleeve) Conductor cross-section flexible (ferrule without plastic sleeve) I mm² 6 mm² Flexible conductor cross section (ferrule with plastic sleeve) I mm² 6 mm² Flexible conductor cross section (ferrule with plastic sleeve) I mm² 6 mm² Plexible conductor cross section (ferrule with plastic sleeve) I mm² 6 mm² Sections Width 28.6 mm Height 58.1 mm Depth on NS 15 30.4 mm Depth on NS 35/7,5 32.4 mm Sectical specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I unsulating material application in cold For °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	oad contact Connection cross sections directly pluggable	
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Conductor cross section rigid I mm² 10 mm² Conductor cross-section flexible (ferrule without plastic sleeve) I mm² 6 mm² I mm²		
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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 black/yellow Flammability rating according to UL 94 V0 Insulating material group I Insulating material application in cold PA Static insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	riexible conductor cross section (terrule with plastic sleeve)	1 mm 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 black/yellow 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)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	nensions	
Depth on NS 15 Depth on NS 35/7,5 32.4 mm terial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group Insulating material PA Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Width	28.6 mm
Depth on NS 35/7,5 32.4 mm terial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group Insulating material proup Insulating material application in cold Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Height	58.1 mm
terial specifications Color black/yellow 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)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Depth on NS 15	30.4 mm
Color Flammability rating according to UL 94 V0 Insulating material group Insulating material PA Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) black/yellow V0 I 1 1 1 1 1 1 1 1 1 1 1 1	Depth on NS 35/7,5	32.4 mm
Flammability rating according to UL 94 Insulating material group Insulating material PA Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	terial specifications	
Insulating material group Insulating material PA Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Color	black/yellow
Insulating material group Insulating material PA Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Flammability rating according to UL 94	V0
Insulating material PA Static insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	· · · · · · · · · · · · · · · · · · ·	I
Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C		PA
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C		-60 °C
	Temperature index of insulation material (DIN EN 60216-1 (VDE	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22 HL 1 - HL 3	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

Open side panel No	
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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
est 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 Result	192 Test passed
	Took passed
eedle-flame test Time of exposure	30 s
Result	
Result	Test passed
oscillation/broadband noise	
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 direction per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
hocks	
Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
	30g
Acceleration	
Shock duration	18 ms
Shock duration Number of shocks per direction	3
Shock duration Number of shocks per direction Test directions	3 X-, Y- and Z-axis (pos. and neg.)
Shock duration Number of shocks per direction	3

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



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-25 °C 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
-5 °C 70 °C
-5 °C 70 °C
20 % 90 %
30 % 70 %
IEC 60947-7-1
IEC 60947-7-1
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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com