

3274204

https://www.phoenixcontact.com/us/products/3274204

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Distribution block, Block with horizontal alignment and integrated supply, nom. voltage: 690 V, nominal current: 24 A, number of connections: 13, connection method: Push-in connection, Rated cross section: 2.5 mm², 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 15, color: violet

Your advantages

- · Clear wiring, thanks to eleven different color variants
- · 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
- · Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- Space savings of up to 50 % on the DIN rail, thanks to transverse mounting

Commercial data

Item number	3274204
Packing unit	8 pc
Minimum order quantity	8 pc
Sales key	BE09
Product key	BEA123
GTIN	4055626393971
Weight per piece (including packing)	32.87 g
Weight per piece (excluding packing)	32.87 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Notes

Notes on operation	the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories
General	
Note	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	13	
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

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Connection data

Service Entrance	yes
Number of connections per level	13
Nominal cross section	2.5 mm ²
Rated cross section AWG	14

Load contact

Connection method	Push-in connection
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 4 mm²
Conductor cross section, flexible [AWG]	26 12 (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
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	24 A
Maximum load current	32 A (with 4 mm² conductor cross section)



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Maximum total current	57 A (The maximum load current of the individual terminal poin must not be exceeded.)
Nominal voltage	690 V
Nominal cross section	2.5 mm²
ne contact	
Connection method	Push-in connection
Stripping length	10 mm 12 mm
Internal cylindrical gage	A5
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 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 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 6 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
Maximum load current	57 A (with 10 mm² conductor cross-section)
Maximum total current	57 A (The maximum load current of the individual terminal poir must not be exceeded.)
Nominal voltage	690 V
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)	0.5 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
ensions	
Width	41 mm
Height	28.6 mm
Depth on NS 15	31.4 mm
erial specifications	
Color	violet (RAL 4005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA



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Static insulating material application in cold	-60 °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
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

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.



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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	

Test 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	

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
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/s²)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):2008-03
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.)
Result	Test passed

Ambient conditions



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Mounting type

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 60947-7-1
	IEC 60947-7-1
Mounting	

NS 15

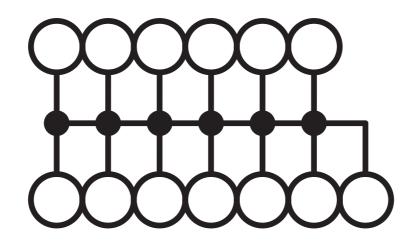


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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3274204

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	-	-

GCSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
Output	300 V	20 A	26 - 12	-
Input	300 V	50 A	20 - 8	-
С				
Output	300 V	20 A	26 - 12	-
Input	300 V	50 A	20 - 8	-
D				
Input	600 V	5 A	20 - 8	-

EAC
Approval ID: RU C-DE.BL08.B.00644

cULus Recogniz Approval ID: E60425				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
Output	300 V	20 A	26 - 12	-
Input	300 V	50 A	20 - 8	-
С				
Output	300 V	20 A	26 - 12	-
Input	300 V	50 A	20 - 8	-
D				
Output	600 V	5 A	26 - 12	-
Input	600 V	5 A	20 - 8	-

CB scheme	IECEE CB Scheme Approval ID: DE1-62701				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					



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690 V 41 A

	VDE Zeichengeneh Approval ID: 40047797	nmigung			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		690 V	41 A	-	-

EAC	EAC Approval ID: KZ7500651131219505	
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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27250118
	ECLASS-15.0	27250118
ET	IM	
	ETIM 9.0	EC000897
UNSPSC		

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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%

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