

3214080

https://www.phoenixcontact.com/us/products/3214080

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Potential collective terminal, In the end application, the applicable safety regulations for overload and short-circuit protection on the connected conductors must be considered., nom. voltage: 1000 V, nominal current: 105 A, 1st level connection left, connection method: Screw connection, cross section: 1.5 mm² - 50 mm², First level connection, interior, connection method: Push-in connection, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

- The terminal block base is ideal for use in building installation and machine building applications
- The compact design and front connection enable wiring in a confined space

 space

 in a confined space

 in a
- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- 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

Commercial data

Item number	3214080
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	BE22
Product key	BE2219
Catalog page	Page 128 (C-1-2019)
GTIN	4055626167619
Weight per piece (including packing)	76.8 g
Weight per piece (excluding packing)	76.8 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Notes

Notes on operation	In the end application, the applicable safety regulations for overload and short-circuit protection on the connected conductors must be considered.

Product properties

Product type	Potential distributor
Number of connections	11
Number of rows	1
Potentials	1

Data management status

Article revision	06
Insulation characteristics	
Overvoltage category	III

3

4.06 W

Degree of pollution

Maximum power dissipation for nominal condition

EI	ectrical properties	
	Rated surge voltage	8 kV

Connection data

Service Entrance	yes
Number of connections per level	11

1st level connection left		
Screw thread	M6	
Tightening torque	3.2 3.7 Nm	
Stripping length	18 mm	
Internal cylindrical gage	B9	
Connection in acc. with standard	IEC 60947-7-1	
Conductor cross section rigid	1.5 mm² 50 mm²	
Cross section AWG	14 2 (converted acc. to IEC)	
Conductor cross section flexible	1.5 mm² 50 mm²	
Conductor cross section, flexible [AWG]	14 2 (converted acc. to IEC)	
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm² 35 mm²	
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm² 35 mm²	
2 conductors with same cross section, solid	1.5 mm² 16 mm²	
2 conductors with the same cross-section AWG rigid	16 6 (converted acc. to IEC)	
2 conductors with same cross section, flexible	1.5 mm² 10 mm²	
2 conductors with the same cross-section AWG flexible	16 8 (converted acc. to IEC)	
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm² 10 mm²	



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Nominal current	105 A
Maximum load current	105 A (The maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	1000 V
rst level connection, interior	
Stripping length	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 6 mm²
Conductor cross section, flexible [AWG]	20 10 (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 1.5 mm ²
Nominal current	41 A
Maximum load current	41 A
Nominal voltage	1000 V
Nominal cross section	6 mm²
at level connection right	
Stripping length	8 mm 10 mm
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
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Nominal current	24 A
Maximum load current	24 A
Nominal voltage	1000 V
Nominal cross section	2.5 mm²
rst level connection, interior Connection cross sections directly plugga	able
Conductor cross section rigid	1 mm² 10 mm²
Conductor cross section, rigid [AWG]	18 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm² 6 mm²
st level connection right Connection cross sections directly pluggable	
Conductor cross section rigid	0.34 mm² 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm ² 2.5 mm ²



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Dimensions

Width	16.3 mm
Height	110.4 mm
Depth on NS 35/7,5	48.8 mm
Depth on NS 35/15	56.3 mm

Material specifications

Color	gray (RAL 7042)
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)	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
Short-time withstand current 35 mm²	3 kA
Short-time withstand current 50 mm²	4.8 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No

Mechanical tests

Mechanical strength

Result Test passed



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DIN rail/fixing support	NS 35
Test force setpoint	10 N
Result	Test passed
est for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	1.5 mm² / 0.4 kg
	35 mm² / 6.8 kg
	50 mm² / 9.5 kg
Result	Test passed
est for conductor damage and slackening	
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	4 mm² / 0.9 kg Test passed
vironmental and real-life conditions	Test passed
vironmental and real-life conditions ging Temperature cycles	Test passed
vironmental and real-life conditions	Test passed
vironmental and real-life conditions Iging Temperature cycles Result	Test passed
vironmental and real-life conditions ging Temperature cycles Result	Test passed
vironmental and real-life conditions ging Temperature cycles Result leedle-flame test	Test passed 192 Test passed
vironmental and real-life conditions ging Temperature cycles Result leedle-flame test Time of exposure Result	Test passed 192 Test passed 30 s
vironmental and real-life conditions Iging Temperature cycles Result Ideedle-flame test Time of exposure Result	Test passed 192 Test passed 30 s
vironmental and real-life conditions Aging Temperature cycles Result Jeedle-flame test Time of exposure Result Descillation/broadband noise	Test passed 192 Test passed 30 s Test passed
vironmental and real-life conditions Aging Temperature cycles Result Reedle-flame test Time of exposure Result Descillation/broadband noise Specification	Test passed 192 Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2008-03
vironmental and real-life conditions Iging Temperature cycles Result Ideedle-flame test Time of exposure Result Discillation/broadband noise Specification Spectrum	Test passed 192 Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2008-03 Service life test category 2, bogie-mounted
vironmental and real-life conditions Aging Temperature cycles Result Reedle-flame test Time of exposure Result Descillation/broadband noise Specification Spectrum Frequency	Test passed 192 Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2008-03 Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$



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Test directions	X-, Y- and Z-axis
Result	Test passed
hocks	
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
mbient 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, 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 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
	IEC 60947-7-1
unting	
Mounting type	NS 35/7,5
	NS 35/15

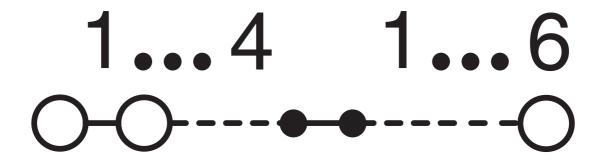


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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3214080



CSA

Approval ID: 13631



EAC

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



cULus Recognized

Approval ID: E60425



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Classifications

ECLASS

	ECLASS-11.0	27141120		
	ECLASS-13.0	27250119		
ETIM				
	ETIM 9.0	EC000897		
UNSPSC				
GINGI GG				
	UNSPSC 21.0	39121400		

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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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