

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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Universal terminal block with screw connection, cross section: 0,2- 2.5 mm², AWG: 24- 12, width: 5.2 mm, color: Grav



Key Commercial Data

Packing unit	50 STK
Minimum order quantity	50 STK
GTIN	4 017918 090289
GTIN	4017918090289
Weight per Piece (excluding packing)	9.000 g
Custom tariff number	85369010
Country of origin	Poland

Technical data

General

Number of levels	2	
Number of connections	2	
Potentials	1	
Nominal cross section	2.5 mm²	
Color	gray	
Insulating material	PA	
Flammability rating according to UL 94	V2	
Rated surge voltage	6 kV	
Degree of pollution	3	
Overvoltage category	III	
Insulating material group	I	
Maximum power dissipation for nominal condition	0.77 W ()	
Maximum load current	32 A (with 4 mm² conductor cross section)	



Technical data

General

Nominal voltage U _N Open side panel Yes Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection Result of surge voltage test Surge voltage test setpoint Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Bending test rotation speed Bending test rotation speed Bending test conductor cross section/weight 0.2 mm² / 0.2 kg 1 ms² / 0.9 kg Tensile test result Conductor cross section tensile test 0.2 mm² / 0.7 kg 4 mm² / 0.9 kg Tensile test result Conductor cross section tensile test 0.2 mm² Tractive force setpoint Conductor cross section tensile test 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint Conductor cross section tensile test 120 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1 N Result of voltage-drop test			
Open side panel Yes Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection guaranteed Result of surge voltage test Test passed Surge voltage test setpoint 7.3 kV Result of the test for mechanical stability of terminal points (5 x conductor connection) Test passed Result of bending test Test passed Bending test rotation speed 10 rpm Bending test turns 135 Bending test conductor cross section/weight 0.2 mm² / 0.2 kg 4 mm² / 0.9 kg 4 mm² / 0.9 kg Tensile test result Test passed Conductor cross section tensile test 0.2 mm² Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 2.5 mm² Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1 N Result of voltage-drop test Test passed <td>Nominal current I_N</td> <td>32 A</td>	Nominal current I _N	32 A	
Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection guaranteed Result of surge voltage test Test passed Surge voltage test stepoint 7.3 kV Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Bending test rotation speed 10 rpm Bending test turns 135 Bending test conductor cross section/weight 0.2 mm² / 0.2 kg $2.5 \text{mm²} / 0.7 \text{kg}$ $4 \text{mm²} / 0.9 \text{kg}$ Test passed Conductor cross section tensile test 0.2 mm² Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 120 N Result of tight fit on support 7 test passed Setpoint 1N Result of voltage-drop test 7 test passed Requirements, voltage drop $0.1 \leq 3.2 \text{my}$; $0.2 \leq 1.5 \times \text{U}_1$	Nominal voltage U _N	500 V	
Back of the hand protection Finger protection Result of surge voltage test Test passed Surge voltage test setpoint Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Test passed Test passed Result of bending test Test passed Bending test rotation speed Bending test turns Bending test conductor cross section/weight 10 rpm Bending test conductor cross section/weight 2.5 mm² / 0.7 kg 4 mm² / 0.9 kg Tensile test result Conductor cross section tensile test 0.2 mm² Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 120 N Result of tight fit on support Test passed Fight fit on carrier NS 32/NS 35 Setpoint Result of voltage-drop test Test passed Requirements, voltage drop U₁ ≤ 3.2 mV; U₂ ≤ 1.5 x U₁	Open side panel	Yes	
Finger protection guaranteed Result of surge voltage test Test passed Surge voltage test setpoint 7.3 kV Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Bending test rotation speed 10 rpm Bending test turns 135 Bending test conductor cross section/weight 0.2 mm² / 0.2 kg $2.5 \text{ mm²} / 0.7 \text{ kg}$ $4 \text{ mm²} / 0.9 \text{ kg}$ Test passed Conductor cross section tensile test 0.2 mm² Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 120 N Result of tight fit on support Test passed Setpoint 1 N Result of voltage-drop test Requirements, voltage drop $V_1 \le 3.2 \text{ mV}$; $V_2 \le 1.5 \times V_1$	Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11	
Result of surge voltage test Test passed Surge voltage test setpoint Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Bending test rotation speed Bending test turns Bending test conductor cross section/weight $2.5 \text{ mm}^2 / 0.2 \text{ kg}$ Ensile test result Conductor cross section tensile test Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile test A mm² Tractive force setpoint Conductor cross section tensile	Back of the hand protection	guaranteed	
Surge voltage test selpoint 7.3 kV Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Totation speed 10 rpm Bending test truns 135 Bending test conductor cross section/weight 0.2 mm² / 0.2 kg $2.5 \text{ mm}^2 / 0.7 \text{ kg}$ $4 \text{ mm}^2 / 0.9 \text{ kg}$ Test passed Conductor cross section tensile test 0.2 mm² Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 100 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1N Result of voltage-drop test Test passed Requirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \times U_1$	Finger protection	guaranteed	
Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Test passed 10 rpm Bending test rotation speed 10 rpm Bending test turns 135 Bending test conductor cross section/weight 0.2 mm² / 0.2 kg 2.5 mm² / 0.7 kg 4 mm² / 0.9 kg Tensile test result Test passed Conductor cross section tensile test 0.2 mm² Tractive force setpoint Conductor cross section tensile test 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 100 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint Result of voltage-drop test Requirements, voltage drop 10 Test passed Test passed Test passed Test passed Test passed Test passed	Result of surge voltage test	Test passed	
conductor connection) Result of bending test Test passed Bending test rotation speed 10 rpm Bending test turns 135 Bending test conductor cross section/weight $2.5 \text{ mm}^2 / 0.2 \text{ kg}$ $2.5 \text{ mm}^2 / 0.7 \text{ kg}$ $4 \text{ mm}^2 / 0.9 \text{ kg}$ Tensile test result Test passed Conductor cross section tensile test 0.2 mm^2 Tractive force setpoint Conductor cross section tensile test 2.5 mm^2 Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm^2 Tractive force setpoint 100 N Conductor cross section tensile test 4 mm^2 Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1 N Result of voltage-drop test Requirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \text{ x } U_1$	Surge voltage test setpoint	7.3 kV	
Bending test rotation speed 10 rpm 135 Bending test turns 0.2 mm² / 0.2 kg 2.5 mm² / 0.7 kg 4 4 mm² / 0.9 kg 7 m²	Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed	
Bending test turns135Bending test conductor cross section/weight $0.2 \text{ mm}^2 / 0.2 \text{ kg}$ $2.5 \text{ mm}^2 / 0.7 \text{ kg}$ $2.5 \text{ mm}^2 / 0.9 \text{ kg}$ Tensile test resultTest passedConductor cross section tensile test 0.2 mm^2 Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm^2 Tractive force setpoint 100 N Conductor cross section tensile test 4 mm^2 Tractive force setpoint 120 N Result of tight fit on supportTest passedTight fit on carrier $NS 32/NS 35$ Setpoint 1 N Result of voltage-drop testTest passedRequirements, voltage drop $U_1 \le 3.2 \text{ mV}; U_2 \le 1.5 \times U_1$	Result of bending test	Test passed	
Bending test conductor cross section/weight 0.2 mm² / 0.2 kg 2.5 mm² / 0.7 kg 4 mm² / 0.9 kg Tensile test result Test passed 0.2 mm² Conductor cross section tensile test 0.2 mm² Conductor cross section tensile test 2.5 mm² Conductor cross section tensile test 2.5 mm² Tractive force setpoint 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1 N Result of voltage-drop test Test passed Test passed Requirements, voltage drop $U_1 \le 3.2$ mV; $U_2 \le 1.5$ x U_1	Bending test rotation speed	10 rpm	
$2.5 \text{mm}^2 / 0.7 \text{kg}$ $4 \text{mm}^2 / 0.9 \text{kg}$ Tensile test result $Conductor \text{cross section tensile test}$ $Conductor \text{cross section tensile test}$ 20N $Conductor \text{cross section tensile test}$ 2.5mm^2 $Tractive \text{force setpoint}$ 20N $Conductor \text{cross section tensile test}$ 100N $Conductor \text{cross section tensile test}$ 4mm^2 $Tractive \text{force setpoint}$ 120N $Result \text{of tight fit on support}$ $Test \text{passed}$ $Tight \text{fit on carrier}$ $NS 32/NS 35$ $Setpoint$ 1N $Result \text{of voltage-drop test}$ $Test \text{passed}$ $V_1 \leq 3.2 \text{mV}; V_2 \leq 1.5 \text{x} \text{U}_1$	Bending test turns	135	
Tensile test result Test passed Conductor cross section tensile test 0.2 mm^2 Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm^2 Tractive force setpoint 100 N Conductor cross section tensile test 4 mm^2 Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on carrier NS $32/\text{NS} 35$ Setpoint 1 N Result of voltage-drop test Requirements, voltage drop $1 \text{ Visual conductor cross}$ $1 \text{ Visual conductor cross}$ Test passed $1 \text{ Visual conductor cross}$	Bending test conductor cross section/weight	0.2 mm² / 0.2 kg	
Tensile test result Conductor cross section tensile test 0.2 mm² Tractive force setpoint 20 N Conductor cross section tensile test 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1 N Result of voltage-drop test Requirements, voltage drop Test passed $U_1 \le 3.2 \text{ mV}; U_2 \le 1.5 \times U_1$		2.5 mm² / 0.7 kg	
Conductor cross section tensile test 0.2 mm^2 Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm^2 Tractive force setpoint 100 N Conductor cross section tensile test 4 mm^2 Tractive force setpoint 120 N Result of tight fit on support 120 N Test passed 120 N Tight fit on carrier 120 N Setpoint 120 N Result of voltage-drop test 120 N Test passed 120 N		4 mm² / 0.9 kg	
Tractive force setpoint 20 N Conductor cross section tensile test 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on carrier NS $32/NS$ 35 Setpoint 1N Result of voltage-drop test Test passed Requirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \text{ x } U_1$	Tensile test result	Test passed	
Conductor cross section tensile test 2.5 mm² Tractive force setpoint 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1 N Result of voltage-drop test Test passed Requirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \times U_1$	Conductor cross section tensile test	0.2 mm²	
Tractive force setpoint 100 N Conductor cross section tensile test 4 mm² Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1 N Result of voltage-drop test Test passed Requirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \text{ x } U_1$	Tractive force setpoint	20 N	
Conductor cross section tensile test 4 mm^2 Tractive force setpoint 120 N Result of tight fit on support $Test passed$ Tight fit on carrier $Test passed$ Setpoint $Test passed$ Result of voltage-drop test $Test passed$ Requirements, voltage drop $Test passed$	Conductor cross section tensile test	2.5 mm²	
Tractive force setpoint 120 N Result of tight fit on support Test passed Tight fit on carrier NS 32/NS 35 Setpoint 1 N Result of voltage-drop test Test passed Requirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \times U_1$	Tractive force setpoint	100 N	
Result of tight fit on supportTest passedTight fit on carrierNS 32/NS 35Setpoint1 NResult of voltage-drop testTest passedRequirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \text{ x } U_1$	Conductor cross section tensile test	4 mm²	
Tight fit on carrierNS 32/NS 35Setpoint1 NResult of voltage-drop testTest passedRequirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \text{ x } U_1$	Tractive force setpoint	120 N	
Setpoint1 NResult of voltage-drop testTest passedRequirements, voltage drop $U_1 \le 3.2 \text{ mV}$; $U_2 \le 1.5 \text{ x } U_1$	Result of tight fit on support	Test passed	
Result of voltage-drop test Test passed $ U_1 \leq 3.2 \text{ mV}; \ U_2 \leq 1.5 \text{ x } U_1 $	Tight fit on carrier	NS 32/NS 35	
Requirements, voltage drop $U_1 \leq 3.2 \text{ mV}; \ U_2 \leq 1.5 \text{ x } U_1$	Setpoint	1 N	
	Result of voltage-drop test	Test passed	
Result of temperature-rise test Test passed	Requirements, voltage drop	$U_1 \le 3.2 \text{ mV}; U_2 \le 1.5 \text{ x } U_1$	
	Result of temperature-rise test	Test passed	

Dimensions

Width	5.2 mm
Length	47.5 mm
Height NS 35/7,5	58.5 mm
Height NS 35/15	66 mm
Height NS 32	63.5 mm

Connection data

Connection method	Screw connection
Connection in acc. with standard	IEC / EN
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²



Technical data

Connection data

Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm ²
Cross section with insertion bridge, solid max.	4 mm²
Cross section with insertion bridge, stranded max.	2.5 mm²
2 conductors with same cross section, solid min.	0.2 mm²
2 conductors with same cross section, solid max.	1 mm²
2 conductors with same cross section, stranded min.	0.2 mm²
2 conductors with same cross section, stranded max.	1 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1 mm²
Cross section with insertion bridge, solid max.	4 mm²
Cross section with insertion bridge, stranded max.	2.5 mm²
Connection in acc. with standard	UL
Conductor cross section AWG min.	30
Conductor cross section AWG max.	12
Stripping length	8 mm
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

Standards and Regulations

Connection in acc. with standard	CSA
	IEC / EN
Flammability rating according to UL 94	V2

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50	
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"	



Feed-through terminal block - UK 3-RETURN - 3002513		
Approvals		
Approvals		
Approvals		
CSA / UL Recognized / PRS / EAC		
Ex Approvals		
Approval details		
CSA (1)	http://www.csagroup.org/services/testing- and-certification/certified-product-listing/	
mm²/AWG/kcmil	28-12	
Nominal current IN	25 A	
Nominal voltage UN	300 V	
UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425		
mm2/AMC/komil	20.42	
mm²/AWG/kcmil Nominal current IN	30-12 20 A	
Nominal current IN Nominal voltage UN	300 V	
Nominal Vollage ON	J000 V	

PRS	http://www.prs.pl/	TE/1825/880590/09
-----	--------------------	-------------------

EAC EAC-Zulassung

Phoenix Contact 2017 © - all rights reserved http://www.phoenixcontact.com