

## Potential distributors - ZPV 1,5/2,5 (8/1) - 3031047

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Potential distributors, Nom. voltage: 500 V, Nominal current: 24 A, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 12 - 26, Connection type: Spring-cage connection, Width: 5.2 mm, Length: 141 mm, Color: gray, Assembly: NS 35/7,5, NS 35/15

### Why buy this product

- The operating voltage is supplied via a 2.5 mm<sup>2</sup> spring-cage connection and distributed using eight 1.5 mm<sup>2</sup> connections
- Actuators and active initiators are simply and clearly supplied with operating voltage
- They are mainly used in small control cabinets with high-performance controllers

### Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 169572

### Technical data

#### General

Number of levels	2
Number of connections	2
Nominal cross section	1.5 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	24 A
Max. load current	24 A (with 4 mm <sup>2</sup> conductor cross section)
Nominal voltage U <sub>N</sub>	500 V
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub> (upper level)	17.5 A
Maximum load current (upper level)	17.5 A

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### Technical data

#### General

Nominal voltage $U_N$	500 V
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 power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 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	0.14 mm <sup>2</sup> / 0.2 kg
	2.5 mm <sup>2</sup> / 0.7 kg
	4 mm <sup>2</sup> / 0.9 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.14 mm <sup>2</sup>
Tractive force setpoint	10 N
Conductor cross section tensile test	2.5 mm <sup>2</sup>
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm <sup>2</sup>
Tractive force setpoint	60 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 1.6 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	2.5 mm <sup>2</sup>
Short-time current	0.3 kA
Conductor cross section short circuit testing	1.5 mm <sup>2</sup>
Short-time current	0.18 kA
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03

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#### General

Test spectrum	Service life test category 2, bogie mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C

#### Dimensions

Width	5.2 mm
Length	141 mm
Height NS 35/7,5	51 mm
Height NS 35/15	58.5 mm

#### Connection data

Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	26
Conductor cross section AWG max.	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
Connection method	Spring-cage connection
Stripping length	10 mm
Internal cylindrical gage	A3

#### Standards and Regulations

Connection in acc. with standard	CUL
	IEC 60947-7-1

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### Technical data

#### Standards and Regulations

	IEC 60947-7-1
Flammability rating according to UL 94	V0

### Classifications

#### eCl@ss

eCl@ss 4.0	27141124
eCl@ss 4.1	27141124
eCl@ss 5.0	27141124
eCl@ss 5.1	27141124
eCl@ss 6.0	27141124
eCl@ss 7.0	27141124
eCl@ss 8.0	27141120

#### ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

#### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

### Approvals

#### Approvals

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#### Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

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## Approvals

UL Recognized	
mm <sup>2</sup> /AWG/kcmil	24-10
Nominal current I <sub>N</sub>	15 A
Nominal voltage U <sub>N</sub>	300 V

cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	24-10
Nominal current I <sub>N</sub>	15 A
Nominal voltage U <sub>N</sub>	300 V

EAC

EAC

cULus Recognized	
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## Drawings

Circuit diagram

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