

2900381

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PLC-INTERFACE, integrated solid-state relay, with push-in connection, for mounting on NS 35/7,5 DIN rails, input: 5 V DC, output: 12 - 300 V DC/1 A

Your advantages

- · Wear-free switching with no contact bounce
- · Resistant to vibrations and shocks
- · Protective circuit in input and output
- · Status indicator
- DC voltage outputs up to 300 V DC/1 A
- · Option of bridging adjacent modules

Commercial data

Item number	2900381
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK62A3
Catalog page	Page 408 (C-5-2019)
GTIN	4046356508841
Weight per piece (including packing)	31.85 g
Weight per piece (excluding packing)	28.7 g
Customs tariff number	85364190
Country of origin	DE



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Technical data

Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	With integrated solid-state relay
Operating mode	100% operating factor
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics: Standards/regulations	
Insulation	Basic insulation
Insulation Overvoltage category	Basic insulation III

Electrical properties

Maximum power dissipation for nominal condition	0.08 W
Standards/regulations	
Rated insulation voltage	300 V
Rated surge voltage	2.5 kV

Input data

Nominal input voltage U _N	5 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	4 V DC 6 V DC
Switching threshold "0" signal in reference to \boldsymbol{U}_{N}	≤ 0.4
Switching threshold "1" signal in reference to \boldsymbol{U}_{N}	≥ 0.8
Typical input current at U _N	15 mA
Typical response time	0.8 ms
Typical turn-off time	1.5 ms
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Varistor
Transmission frequency	50 Hz

Output data

Designation	Output data
Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	12 V DC 300 V DC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC orFBST 500)
Limiting continuous current	1 A (see derating curve)



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oltage drop at max. limiting continuous current	< 500 mV
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Varistor
nection data	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	0.2 mm ² 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² 1 mm ² (TWIN ferrule)
Conductor cross section AWG	26 14
ensions	
Width	6.2 mm
Height	80 mm
Depth	95 mm
erial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94 ironmental and real-life conditions	V0 (Housing)
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation)	V0 (Housing) -25 °C 60 °C
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions	V0 (Housing)
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Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals	V0 (Housing) -25 °C 60 °C
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals	V0 (Housing) -25 °C 60 °C -40 °C 85 °C
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate	V0 (Housing) -25 °C 60 °C -40 °C 85 °C
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate KCA	V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate KCA Certificate	V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate KCA Certificate nipbuilding approval Certificate	V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate KCA Certificate hipbuilding approval	V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate KCA Certificate nipbuilding approval Certificate prrosive gas test	V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate KCA Certificate nipbuilding approval Certificate prrosive gas test	V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate KCA Certificate nipbuilding approval Certificate prosive gas test Identification	V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group
Flammability rating according to UL 94 ironmental and real-life conditions mbient conditions Ambient temperature (operation) Ambient temperature (storage/transport) rovals E Certificate KCA Certificate hipbuilding approval Certificate prosive gas test Identification	V0 (Housing) -25 °C 60 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60



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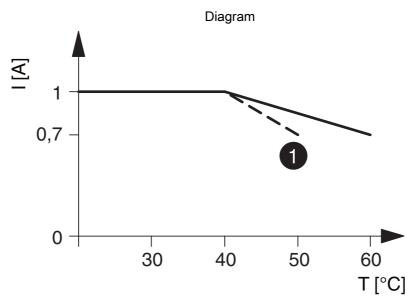
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
EMC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
Standards and regulations	
Standards and regulations Standards/regulations	
-	IEC 60947-5-1
Standards/regulations	IEC 60947-5-1
Standards/regulations Standards/regulations	IEC 60947-5-1 DIN rail mounting
Standards/regulations Standards/regulations Mounting	



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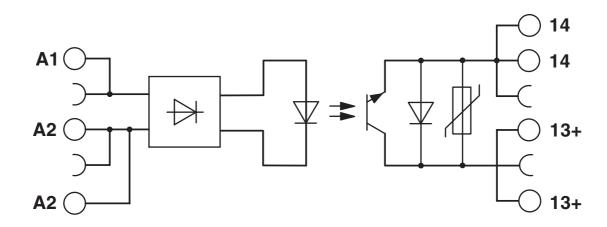
Drawings



1 Input voltages 220 V DC/230 V AC

The figure shows the derating curve for PLC-...300DC/1

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900381



cUL Recognized

Approval ID: FILE E 238705



UL Recognized

Approval ID: FILE E 238705



EAC

Approval ID: TR_TS_D_00573_c



DNV GL

Approval ID: TAE0000196



EAC

Approval ID: RU*C-DE.*08.B.00010



UL Listed

Approval ID: FILE E 172140



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Approval ID: FILE E 172140



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Approval ID: E140324

cULus Recognized

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Classifications

ECLASS

	ECLASS-11.0	27371604
	ECLASS-12.0	27371604
	ECLASS-13.0	27371604
FΤ	TIM	

	ETIM 9.0	EC001504
UN	NSPSC	
	UNSPSC 21.0	39122300



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	103750f5-b749-4ba7-8a83-d6cc78017165



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Accessories



Note: Applying some accessories below might limit this product.

FBST 500-PLC RD - Continuous plug-in bridge

2966786

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Continuous plug-in bridge, length: 500 mm, color: red

Max. current carrying capacity: 32 A

FBST 500-PLC BU - Continuous plug-in bridge

2966692

https://www.phoenixcontact.com/us/products/2966692



Continuous plug-in bridge, length: 500 mm, color: blue

1 Max. current carrying capacity: 32 A



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FBST 500-PLC GY - Continuous plug-in bridge

2966838

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Continuous plug-in bridge, length: 500 mm, color: gray

1 Max. current carrying capacity: 32 A

FBST 6-PLC RD - Single plug-in bridge

2966236

https://www.phoenixcontact.com/us/products/2966236

Single plug-in bridge, number of positions: 2, length: 6 mm, color: red



Max. current carrying capacity: 6 A



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FBST 6-PLC BU - Single plug-in bridge

2966812

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Single plug-in bridge, number of positions: 2, length: 6 mm, color: blue

1 Max. current carrying capacity: 6 A

FBST 6-PLC GY - Single plug-in bridge

2966825

https://www.phoenixcontact.com/us/products/2966825

Single plug-in bridge, number of positions: 2, length: 6 mm, color: gray



Max. current carrying capacity: 6 A



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FBST 8-PLC GY - Single plug-in bridge

2967688

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Single plug-in bridge, number of positions: 2, length: 8 mm, color: gray



Max. current carrying capacity: 6 A

FBST 14-PLC BK - Single plug-in bridge

2967691

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Single plug-in bridge, number of positions: 2, length: 14 mm, color: black



Max. current carrying capacity: 10 A



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NS 35/7,5 PERF 2000MM - DIN rail perforated

0801733

https://www.phoenixcontact.com/us/products/0801733



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 35/7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

https://www.phoenixcontact.com/us/products/0801681



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver



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NS 35/7,5 WH PERF 2000MM - DIN rail perforated

1204119

https://www.phoenixcontact.com/us/products/1204119



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

NS 35/7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

https://www.phoenixcontact.com/us/products/1204122



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver



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NS 35/7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

https://www.phoenixcontact.com/us/products/0801704



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

NS 35/7,5 ZN PERF 2000MM - DIN rail perforated

1206421

https://www.phoenixcontact.com/us/products/1206421



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver



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NS 35/7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

https://www.phoenixcontact.com/us/products/1206434



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

NS 35/7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

https://www.phoenixcontact.com/us/products/0801762



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored



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NS 35/7,5 CAP - End cap

1206560

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DIN rail end piece, for DIN rail NS 35/7.5



NS 35/15 PERF 2000MM - DIN rail perforated

1201730

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DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver



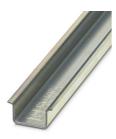
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NS 35/15 UNPERF 2000MM - DIN rail, unperforated

1201714

https://www.phoenixcontact.com/us/products/1201714



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 35/15 WH PERF 2000MM - DIN rail perforated

0806602

https://www.phoenixcontact.com/us/products/0806602



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white



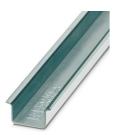
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NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

https://www.phoenixcontact.com/us/products/1204135



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

NS 35/15 AL UNPERF 2000MM - DIN rail, unperforated

1201756

https://www.phoenixcontact.com/us/products/1201756



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver



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NS 35/15 ZN PERF 2000MM - DIN rail perforated

1206599

https://www.phoenixcontact.com/us/products/1206599



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

NS 35/15 ZN UNPERF 2000MM - DIN rail, unperforated

1206586

https://www.phoenixcontact.com/us/products/1206586



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver



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NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

https://www.phoenixcontact.com/us/products/1201895



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

NS 35/15 CAP - End cap

1206573

https://www.phoenixcontact.com/us/products/1206573

DIN rail end piece, for DIN rail NS 35/15





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NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201798

https://www.phoenixcontact.com/us/products/1201798



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver

PLC-ATP BK - Separating plate

2966841

https://www.phoenixcontact.com/us/products/2966841



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation



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PLC-ESK GY - Power terminal block

2966508

https://www.phoenixcontact.com/us/products/2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

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