

2980144

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PLC-INTERFACE for output functions, consisting of PLC-BSC.../ACT basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 5 V DC, output: 3 - 33 V DC/3 A

Your advantages

- · Actuator connected directly to relay module
- · No need for additional modular terminal blocks
- · Efficient connection to system cabling using V8 adapter
- Time savings of up to 60 %
- Relay modules with safe isolation according to DIN EN 50178 between coil and contact
- Space savings of up to 80 %
- · Functional plug-in bridges

Commercial data

Item number	2980144
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C462
Product key	CK6223
Catalog page	Page 376 (C-5-2019)
GTIN	4017918727499
Weight per piece (including packing)	38.318 g
Weight per piece (excluding packing)	35.738 g
Customs tariff number	85364900
Country of origin	DE



2980144

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Technical data

Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	Output function
Operating mode	100% operating factor
Data management status	
Date of last data management	07.05.2024
Article revision	06
Insulation characteristics: Standards/regulations	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.05 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

Input data

Nominal input voltage U _N	5 V DC
Nominal voltage (plugged-in solid-state relay)	5 V DC
Input voltage range in reference to U_N	0.8 1.2
Input voltage range	4 V DC 6 V DC
Switching threshold "0" signal in reference to \boldsymbol{U}_{N}	≤ 0.25
Switching threshold "1" signal in reference to \boldsymbol{U}_{N}	≥ 0.8
Typical input current at U _N	9.5 mA
Typical response time	20 μs (at U _N)
Typical turn-off time	300 μs (at U _N)
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Freewheeling diode; Freewheeling diode
Transmission frequency	300 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	≤ 200 mV
Output circuit	2-conductor, floating



2980144

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Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
onnection data	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm ² 2.5 mm ²
Conductor cross section flexible	0.14 mm ² 2.5 mm ²
	0.2 mm ² 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 14
Tightening torque	0.6 Nm 0.8 Nm
mensions	
Width	6.2 mm
Height	80 mm
Depth	94 mm
aterial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
Flammability rating according to UL 94 Evironmental and real-life conditions Ambient conditions	V0 (Housing)
Flammability rating according to UL 94 vironmental and real-life conditions	
Flammability rating according to UL 94 Evironmental and real-life conditions Ambient conditions Ambient temperature (operation)	V0 (Housing) -25 °C 60 °C
Flammability rating according to UL 94 avironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) approvals	V0 (Housing) -25 °C 60 °C
Flammability rating according to UL 94 avironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) approvals CE	V0 (Housing) -25 °C 60 °C -25 °C 70 °C
Flammability rating according to UL 94 Evironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Exprovals CE Certificate	V0 (Housing) -25 °C 60 °C -25 °C 70 °C
Flammability rating according to UL 94 Avironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA	V0 (Housing) -25 °C 60 °C -25 °C 70 °C CE-compliant
Flammability rating according to UL 94 vironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) provals CE Certificate UKCA Certificate	V0 (Housing) -25 °C 60 °C -25 °C 70 °C CE-compliant
Flammability rating according to UL 94 Evironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Exprovals CE Certificate UKCA Certificate Shipbuilding approval	V0 (Housing) -25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant
Flammability rating according to UL 94 Avironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate	V0 (Housing) -25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant
Flammability rating according to UL 94 Avironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (storage/transport)	V0 (Housing) -25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant TAE0000196
Flammability rating according to UL 94 Avironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (storage/transport)	V0 (Housing) -25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group
Flammability rating according to UL 94 Avironmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (storage/transport) Ambient temperature (storage/transport) CE Certificate UKCA Certificate Chipbuilding approval Certificate Corrosive gas test Identification	V0 (Housing) -25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group



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Mounting position

	Vibration	B/C
	EMC	В
	Enclosure	Required protection according to the Rules shall be provided upon installation on board
ΕN	IC data	
	Low Voltage Directive	Conformance with Low Voltage Directive
	Electromagnetic compatibility	Conformance with EMC directive
	andards and regulations Standards/regulations	
	Standards/regulations	IEC 60947-5-1
Мс	punting	
	5	
	Mounting type	DIN rail mounting
	•	DIN rail mounting ()

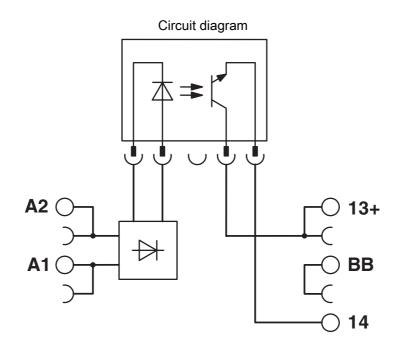
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Drawings





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2980144



cUL Recognized



Approval ID: E238705



UL RecognizedApproval ID: E238705



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

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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604
ETIM	
ETIM 9.0	EC001504
UNSPSC	

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Environmental product compliance

EU RoHS

20 1.0.10	
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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	3e9f17f0-91ca-4ba3-9bbe-9260f984b13f

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