2900298

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PLC-INTERFACE for high switch-on currents, consisting of PLC-BPT.../1 IC/ACT basic terminal block with push-in connection and plug-in miniature relay, for mounting on DIN rail NS 35/7,5, max. switch-on current up to 130 A, 1 N/O contact, input voltage 24 V DC

Your advantages

- · Direct connection of load return line thanks to actuator version
- Efficient connection to system cabling using V8 adapter
- · Safe isolation between coil and contact side
- Max. inrush current of 130 A
- Functional plug-in bridges

Commercial data

Item number	2900298
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CK6
Product key	CK623A
Catalog page	Page 382 (C-5-2019)
GTIN	4046356507370
Weight per piece (including packing)	70.7 g
Weight per piece (excluding packing)	56.8 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Notes

General	Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC or FBST 500
General	The PLC-ATP separating plate should be installed for safe isolation between adjacent modules
General	The PLC-ATP separating plate is required at the start and end of every PLC terminal strip.
General	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built- in device without protection against direct contact.

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	high inrush currents
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles
nsulation characteristics	
Insulation	Safe isolation, reinforced insulation
Insulation nsulation characteristics: Standards/regulations	

Electrical properties

Pollution degree

Maximum power dissipation for nominal condition	0.43 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Standards/regulations	
Standards/regulations Rated insulation voltage	250 V AC

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Input data

Coil side Nominal input voltage U_N 24 V DC Input voltage range 20.2 V DC ... 33.6 V DC (20 °C) Drive and function monostable Drive (polarity) polarized Typical input current at U_N 18 mA Typical response time 8 ms



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Typical release time	10 ms
Coil voltage	24 V DC
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Freewheeling diode
Operating voltage display	Yellow LED

Output data

Contact switching type	1 N/O contact
Гуре of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installe for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC orFBST 500)
Minimum switching voltage	12 V (100 mA)
imiting continuous current	6 A
	10 A (the value is permissible if both connections 13, both connections 14 and both connections BB are bridged)
Maximum inrush current	80 A (20 ms)
	130 A (peak, at capacitive load, 230 V AC, 24 $\mu F)$
Vin. switching current	100 mA (12 V)
nterrupting rating (ohmic load) max.	144 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W
	85 W (for 250 V DC)
	1500 VA (for 250 V AC)
Interrupting rating (ohmic load) max. bridged	240 W (for 24 V DC. The value is permissible if both connection 13, both connections 14 and both connections BB are bridged.)
	2500 VA (for 250 V AC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.)
Switching capacity min.	1200 mW
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 A (at 250 V, AC15)

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm² 2.5 mm²

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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 mm ² (TWIN ferrule)
Conductor cross section AWG	26 14

Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions	
Degree of protection (Relay)	RT II (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m

Approvals

CE	
Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
Shipbuilding approval	
Certificate	TAE0000196
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
DNV GL data	
Temperature	D
Humidity	A
Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board

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Low Voltage Directive	Conformance with Low Voltage Directive		
Electromagnetic compatibility	Conformance with EMC directive		
Standards and regulations			
Standards/regulations	s/regulations		
Standards/regulations	IEC 60947-5-1		
Mounting			
Mounting type	DIN rail mounting		
Assembly instructions	in rows with zero spacing		
Mounting position	any		



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Drawings



Interrupting rating





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Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}$ C must be prevented Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.



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Diagram

Curve A

Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data) Curve B

Minimum permissible operate voltage U_{op} after pre-excitation (see relevant technical data)



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Basic behavior of capacitive loads:

- Very high inrush current

- Voltage increases with an e-function



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Approvals

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.91	CUL Recognized Approval ID: FILE E 238705
71	UL Recognized Approval ID: FILE E 238705
ERC	EAC Approval ID: TR_TS_D_00573_c
	DNV GL Approval ID: TAE0000196
	JL Listed pproval ID: FILE E 172140
	Approval ID: FILE E 172140
· @	CULus Listed Approval ID: E140324
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Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

	ETIM 9.0	EC001437	
UNSPSC			
	UNSPSC 21.0	39122300	

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Environmental product compliance

REACh SVHC	Lead 7439-92-1 Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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