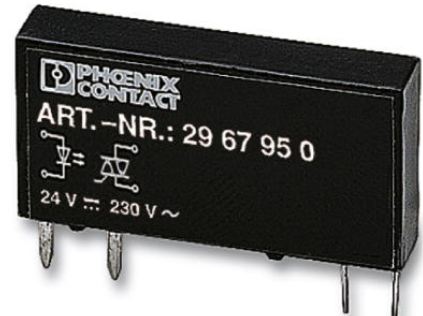



OPT-24DC/230AC/ 1

Order No.: 2967950



<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2967950>

Pluggable miniature optocouplers, power optocouplers, input: 24 V DC, output: 24-253 V AC/ 0.75 A

Commercial data	
EAN	 4 017918 190538
Pack	10 Pcs.
Customs tariff	85364190
Product key	CK61F3
Catalog page information	Page 101 (IF-2011)

Product notes

WEEE/RoHS-compliant since:
05/09/2006



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Input data	
Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Switching threshold "0" signal, voltage	≤ 5 V
Switching threshold "1" signal voltage	≥ 10 V

Typical input current at U_N	3 mA
Typical response time	6 ms (at U_N)
Typical turn-off time	500 μ s (at U_N)
Transmission frequency	10 Hz

Output data

Output nominal voltage range	24 V AC ... 253 V AC
Limiting continuous current	0.75 A (see derating curve)
Maximum inrush current	30 A (10 ms)
Min. load current	10 mA
Leakage current	< 1 mA
Max. load value	4.5 A ² s
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-conductor floating, zero voltage switch
Type of protection	RCV circuit
Protective circuit/component	RCV circuit

General data

Width	5 mm
Height	28 mm
Depth	15 mm
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Name	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

Certificates / Approvals



Certification

CUL, GL, GOST, UL

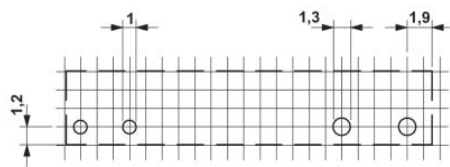
Additional products

Item	Designation	Description
General		
2900450	PLC-BPIT- 24UC/ 1/ACT	PLC-BPIT-24UC/1/ACT basic terminal block for assembly with pluggable OPT-24DC... solid-state relays or REL-MR-24DC... mechanical relaysAll connections of actuators, i.e., the load return lines can be directly connected to the PLC actuator terminal block.
2900449	PLC-BPT- 24DC/ 1/ACT	6.2 mm PLC actuator basic terminal blocks in Push-In connection method, input voltage of 24 V DC (without relay or optocoupler)
2900262	PLC-BPT- 24DC/ 1/SEN	6.2 mm PLC sensor basic terminal blocks with Push-In connection method, input voltage of 24 V DC (without relay or optocoupler)
2900445	PLC-BPT- 24DC/21	6.2 mm PLC basic terminal blocks with Push-In connection method, input voltage of 24 V DC (without relay or optocoupler)
2900447	PLC-BPT- 48DC/21	6.2 mm PLC basic terminal blocks with Push-In connection method, input voltage 48 V DC(without relay or optocoupler)
2980458	PLC-BSC- 24DC/21/SO46	6.2 mm PLC basic terminal blocks with screw connection method and integrated filter against interference voltages and currents on the control side, input voltage 24 V DC(without relay or optocoupler)
2982799	PLC-BSC- 24UC/ 1/ACT	PLC-BS...-24UC/1/ACT basic terminal block for assembly with pluggable OPT-24DC...solid-state relays or mechanical REL-MR-24DC... relays.All connections of actuators, i.e. the load return lines can be directly connected to the PLC actuator terminal block.
2982809	PLC-BSP- 24UC/ 1/ACT	PLC-BS...-24UC/1/ACT basic terminal block for assembly with pluggable OPT-24DC...solid-state relays or mechanical REL-MR-24DC... relays.All connections of actuators, i.e. the load return lines can be directly connected to the PLC actuator terminal block.
Relay base		
2966058	PLC-BSC- 24DC/ 1/ACT	6.2 mm PLC actuator basic terminal blocks with screw connection method, input voltage 24 V DC(without relay or optocoupler)
2966061	PLC-BSC- 24DC/ 1/SEN	6.2 mm PLC Sensor basic terminal blocks with screw connection method, input voltage 24 V DC(without relay or optocoupler)

2966016	PLC-BSC- 24DC/21	6.2 mm PLC basic terminal blocks with screw connection method, input voltage 24 V DC(without relay or optocoupler)
2966090	PLC-BSC- 48DC/21	6.2 mm PLC basic terminal blocks with screw connection method, input voltage 48 V DC(without relay or optocoupler)
2967196	PLC-BSP- 24DC/ 1/ACT	6.2 mm PLC PLC actuator basic terminal blocks with spring-cage connection method, input voltage 24 V DC(without relay or optocoupler)
2967206	PLC-BSP- 24DC/ 1/SEN	6.2 mm PLC Sensor basic terminal blocks with spring-cage connection method, input voltage 24 V DC(without relay or optocoupler)
2967219	PLC-BSP- 24DC/21	6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 24 V DC(without relay or optocoupler)
2967329	PLC-BSP- 48DC/21	6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 48 V DC(without relay or optocoupler)

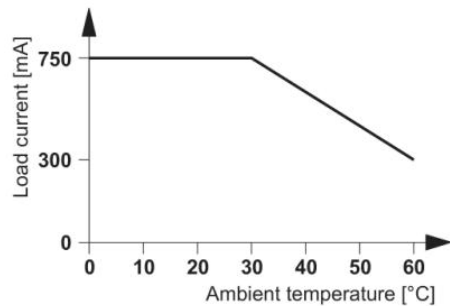
Drawings

Drilling plan/solder pad geometry

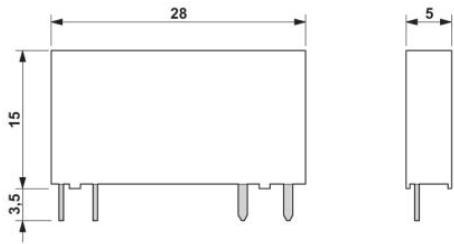


a = pitch division 1.25 mm and 1.27 mm

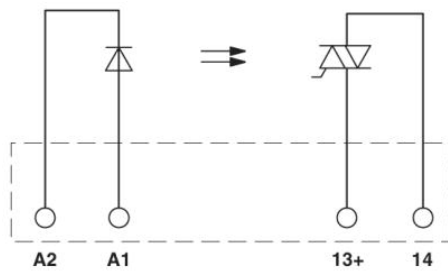
Diagram



Dimensioned drawing



Circuit diagram



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