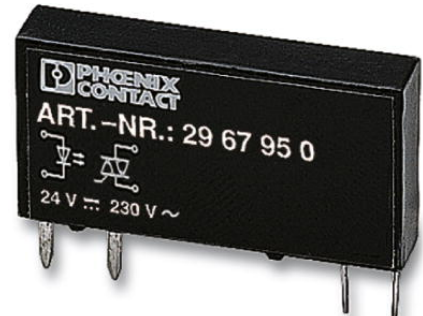



# OPT-24DC/230AC/ 1

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



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## 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	$\leq 5$ V
Switching threshold "1" signal voltage	$\geq 10$ V

Typical input current at $U_N$	3 mA
Typical response time	6 ms (at $U_N$ )
Typical turn-off time	500 $\mu$ 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 <sup>2</sup> 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

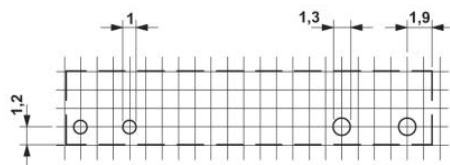
**Additional products**

Item	Designation	Description
<b>General</b>		
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.
<b>Relay base</b>		
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)

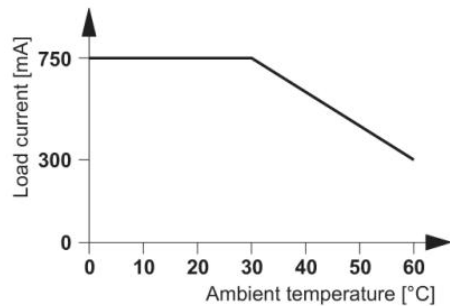
**Drawings**

Drilling plan/solder pad geometry



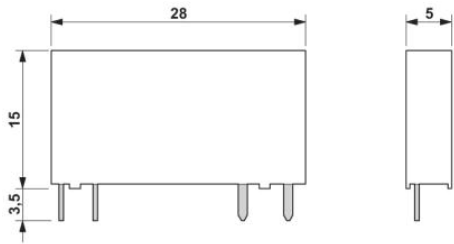
a = pitch division 1.25 mm and 1.27 mm

Diagram



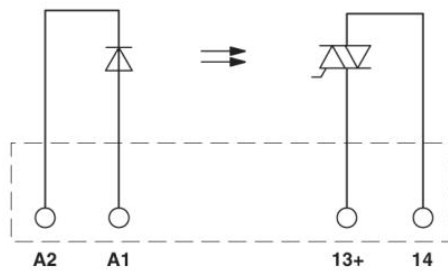
Dimensioned drawing

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Circuit diagram

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