

## Solid-state relays - PLC-HSC-24DC/230AC/10 - 2905214


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PLC-INTERFACE, hybrid solid-state relay incl. bypass relay with screw connection, for mounting on NS 35/7,5 DIN rail, input: 24 V DC, output: 24 V AC - 253 V AC/10 A



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 927567
GTIN	4046356927567

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

#### Input data

Rated control circuit supply voltage $U_s$	24 V DC
Input voltage range	19.2 V DC ... 28.8 V DC
Rated control supply current $I_s$	14 mA (Input low, output low)
	19 mA (Input high, output high)
Rated actuating voltage $U_c$	24 V DC

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## Technical data

### Input data

"0" signal switching threshold in reference to U <sub>C</sub>	< 0.4
"1" signal switching threshold in reference to U <sub>C</sub>	> 0.8
Typical response time	30 ms
Typical turn-off time	20 ms
Status display	Yellow LED
Type of protection	Reverse polarity protection
	Surge protection
Surge voltage protection	> 33 V DC
Transmission frequency	1 Hz
Power dissipation for nominal condition	0.16 W

### Output data

Designation	AC hybrid output
Output voltage range	24 V AC ... 253 V AC (50/60 Hz)
Limiting continuous current	10 A (see derating curve)
Min. load current	100 mA
Leakage current	< 1 mA
Surge current	250 A (t <sub>p</sub> = 20 ms, at 25 °C)
Max. load value	350 A <sup>2</sup> s (t <sub>p</sub> = 10 ms, at 25 °C)
Surge voltage protection	> 275 V
Output circuit	2-wire, floating
Type of protection	RCV circuit

### Connection data, input side

Connection name	Input side
Connection method	Screw connection
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 14

### Connection data, output side

Connection name	Output side
Connection method	Screw connection
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 14

### General

Mounting position	any
Assembly instructions	See derating curve
Operating mode	100% operating factor
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178

# Solid-state relays - PLC-HSC-24DC/230AC/10 - 2905214

## Technical data

### General

Degree of pollution	2
Overvoltage category	III

### Standards and Regulations

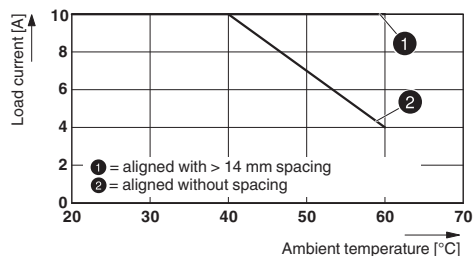
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	260 V AC
Rated surge voltage	6 kV
Insulation	safe isolation
Degree of pollution	2
Overvoltage category	III

### Environmental Product Compliance

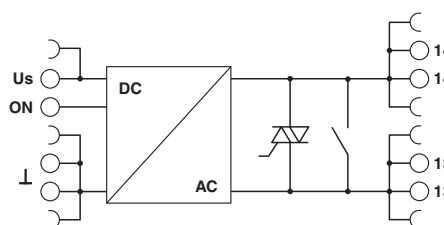
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Diagram



Circuit diagram



Load current as a function of the ambient temperature  
 Operating time: 100% operating factor

## Approvals

### Approvals

Approvals


UL Listed / cUL Listed / EAC / cULus Listed


Ex Approvals

### Approval details

## Solid-state relays - PLC-HSC-24DC/230AC/10 - 2905214

### Approvals

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
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EAC			RU C- DE.A*30.B.01082
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cULus Listed			
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