

# Safety relays - PSR-MC32-3NO-1NC-24-230UC-SC - 2700524

## Technical data

### Digital inputs

Number of inputs	2
Inrush current	< 10 mA ( $\Delta t = 330 \text{ ms}$ )
Current consumption	typ. 2.5 mA (S34)
	typ. 1 mA (S35)
Max. permissible overall conductor resistance	150 $\Omega$
Protective circuit/component	Suppressor diode

### Relay outputs: enabling current path

Output name	Enabling current paths
	13/14, 23/24, 33/34
Output description	safety-related N/O contacts
Number of outputs	3 (undelayed)
Contact type	3 enabling current paths
Contact material	AgSnO <sub>2</sub>
Switching voltage	min. 5 V AC/DC
	max. 250 V AC/DC (Observe the load curve)
Limiting continuous current	6 A (observe derating)
Inrush current	min. 10 mA
	max. 6 A
Sq. Total current	72 A <sup>2</sup> (observe derating)
Switching capacity	min. 50 mW
Switching frequency	max. 1 Hz
Interrupting rating (ohmic load) max.	1500 VA (250 V AC, $\tau = 0 \text{ ms}$ )
	For additional values, see load curve
Maximum interrupting rating (inductive load)	48 W (24 V DC, $\tau = 40 \text{ ms}$ )
	40 W (48 V DC, $\tau = 40 \text{ ms}$ )
	36 W (60 V DC, $\tau = 40 \text{ ms}$ )
	35 W (110 V DC, $\tau = 40 \text{ ms}$ )
	33 W (220 V DC, $\tau = 40 \text{ ms}$ )
	1500 VA (250 V AC, $\tau = 40 \text{ ms}$ )
Mechanical service life	10x 10 <sup>6</sup> cycles
Switching capacity according to IEC 60947-5-1	5 A (24 V (DC13))
	5 A (250 V (AC15))
Output fuse	6 A gL/gG
	4 A gL/gG (for low-demand applications)

### Relay outputs: return current/signaling current path

Output name	Signaling current path
Output description	non-safety-related N/C contact
Number of outputs	1 (undelayed)
Contact type	1 signaling current path

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Relay outputs: return current/signaling current path

Contact material	AgSnO <sub>2</sub>
Switching voltage	min. 5 V AC/DC
	max. 250 V AC/DC
Limiting continuous current	6 A
Inrush current	min. 10 mA
	max. 6 A
Switching capacity	min. 50 mW
Switching frequency	1 Hz
Mechanical service life	10x 10 <sup>6</sup> cycles
Output fuse	6 A gL/gG
	4 A gL/gG (for low-demand applications)

## Times

Typical pickup time at US	< 200 ms (when controlled via A1)
Typical response time at US	< 150 ms (automatic start)
	< 100 ms (manual, monitored start)
Typical release time at US	< 20 ms (when actuation is via the sensor circuit)
Restart time	< 1 s
Recovery time	< 500 ms

## General

Relay type	Electromechanical relay with forcibly guided contacts in accordance with EN 50205
Nominal operating mode	100% operating factor
Net weight	243.8 g
Mounting position	vertical or horizontal
Mounting type	DIN rail mounting
Assembly instructions	See derating curve
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Housing material	PBT
Housing color	yellow
Operating voltage display	1 x green LED
Status display	3 x green LED

## Connection data

Connection method	Screw connection
pluggable	Yes
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>