

Solid State Relays Industrial, 1-Phase ZS w. LED Types RS 23, RS 40, RS 48



- Zero switching AC Solid State Relay
- Direct copper bonding (DCB) technology in 25 A and 40 A types
- LED indication
- Clip-on IP 20 protection cover
- Self-lifting terminals
- Housing free of moulding mass
- 2 input ranges: 4-32 VDC and 18-36 VAC/VDC
- Operational ratings up to 40 AACrms and 480 VAC
- Blocking voltage: Up to 1200 V_p
- Opto-isolation: > 4000 VACrms
- Integrated snubber network in 25 A and 40 A types



Product Description

The zero switching relay with triac (10 A) or thyristor output (25 A, 40 A) offer a solution for resistive load switching. The zero switching relay switches ON when the sinusoidal voltage crosses zero and switches OFF when the current crosses zero. The

LED indicates the status of the control input. The clip-on protection cover is securing touch protection to IP 20. Output terminals can handle cables up to 16 mm².

Ordering Key

RS 1 A 23 D 25

- Solid State Relay
- Number of poles
- Switching mode
- Rated operational voltage
- Control voltage
- Rated operational current

Type Selection

Switching mode	Rated operational voltage	Rated operational current	Control voltage
A: Zero Switching	23: 230 VACrms 40: 400 VACrms 48: 480 VACrms	10: 10 AACrms 25: 25 AACrms 40: 40 AACrms	LA: 18 to 36 VAC/VDC D: 3 to 32 VDC* *4 to 32 VDC for 400 VAC and 480 VAC types

Selection Guide

Rated operational voltage	Blocking voltage	Control voltage	Rated operational current		
			10 A	25 A	40 A
230 VACrms	650 V _p	3-32 VDC	RS1A23D10	RS1A23D25	RS1A23D40
		18-36 VAC/DC	RS1A23LA10	RS1A23LA25	RS1A23LA40
400 VACrms	800 V _p	4-32 VDC	RS1A40D10	RS1A40D25	RS1A40D40
		18-36 VAC/DC	RS1A40LA10	RS1A40LA25	RS1A40LA40
480 VACrms	1200 V _p	4-32 VDC	RS1A48D10	RS1A48D25	RS1A48D40
		18-36 VAC/DC	RS1A48LA10	RS1A48LA25	RS1A48LA40

General Specifications

	RS1A23...	RS1A40...	RS1A48...
Operational voltage range	42 to 265 VACrms	42 to 440 VACrms	42 to 530 VACrms
Blocking voltage	≥ 650 V _p	≥ 800 V _p	≥ 1200 V _p
Zero voltage turn-on	≤ 15 V	≤ 15 V	≤ 15 V
Operational frequency range	45 to 65 Hz	45 to 65 Hz	45 to 65 Hz
Power factor	≥ 0.95 @ 230 VACrms	≥ 0.95 @ 400 VACrms	≥ 0.95 @ 480 VACrms
Approvals	UR, cUR, CSA, EAC	UR, cUR, CSA, EAC	UR, cUR, CSA, EAC
CE-marking	Yes	Yes	Yes
UKCA-marking	Yes	Yes	Yes