Solid State Relays Accessories Type MS1...





- Rated operational voltage: 115, 230 or 400 VACrms
- Supply output: 14 VDC @ I_{max.} = 110 mA
- Short-circuit protected
- 5 A SPST relay output
- LED indication for power supply on and relay on
- Insulation: 2000 Vrms/4 mm
- H2 housing

Product Description

Power supply unit with built-in control relay for motor con-

trollers type RSC/RSO and RTC/RTO.

Ordering Key

MS 1 400

Type Selection

Туре	Index no.	Rated operational voltage	
MS: Supply unit for motor controller	1	115: 115 VACrms 230: 230 VACrms 400: 400 VACrms	

Selection Guide

Rated operational voltage 115 VACrms	230 VACrms	400 VACrms
MS 1 115	MS 1 230	MS 1 400

General Specifications

	MS 1 115	MS 1 230	MS 1 400
Rated operational voltage (terminals 21 & 22)	115 VACrms	230 VACrms	400 VACrms
Operational frequency range	45 to 65 Hz	45 to 65 Hz	45 to 65 Hz
Environment Degree of protection Pollution degree (IEC 60664)	IP 20 B	IP 20 B 3	IP 20 B 3
Overvoltage category	III	III	III
Indication for Power supply ON Relay ON	LED, green LED, yellow	LED, green LED, yellow	LED, green LED, yellow
Approval CE-marking	Yes	CSA Yes	CSA Yes
OL-IIIaikiiig	IES	165	165



Supply Specifications

	MS 1 115	MS 1 230	MS 1 400
Operational voltage range	103 to 126 VACrms	207 to 253 VACrms	360 to 440 VACrms
Voltage interruption	≤ 40 ms	≤ 40 ms	≤ 40 ms

Input Specifications

Polov piek up voltage	≤ 8.0 VDC
Relay pick-up voltage	
Relay drop-out voltage	≥ 0.6 VDC
Max. input voltage	≤ 21.2 VDC
Input impedance	640 Ω

Output Specifications

Supply output range		10 to 30 VDC
Rated DC output voltage @ 110 mA (terminals 1 & 4)		14 VDC
Relay output SPST (terminals 23 & 24)	DC 1	5 A, 250 VAC 2 A, 250 VAC 5 A, 24 VDC 3 A, 24 VDC

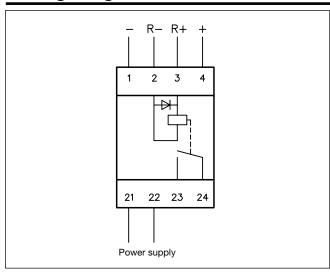
Thermal Specifications

Operating temperature	-20° to +50°C (-4° to +122°F)
Storage temperature	-50° to +85°C (-58° to +185°F)

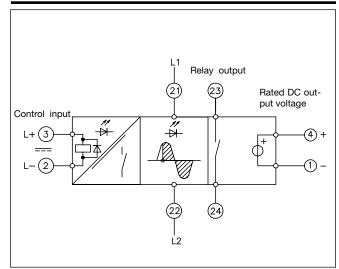
Isolation

Rated isolation voltage Supply to electronic circuit	≥ 2000 VACrms
Rated impulse withstand voltage	4000 Vp (1.2/50 μs)

Wiring Diagram



Functional Diagram

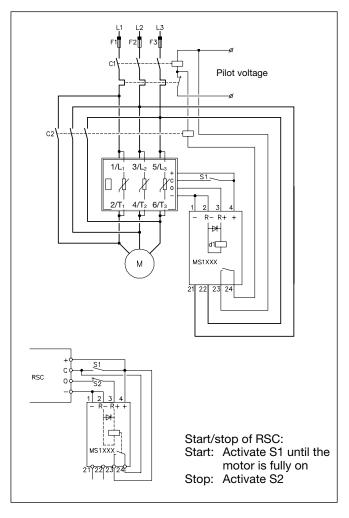


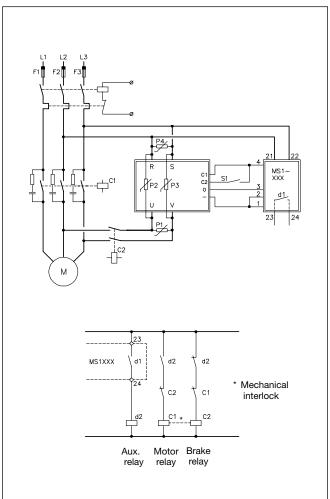


Applications

The MS1.. power supply connected to a motor controller (RSC) for soft starting/soft stopping of an induction motor.

The MS1.. power supply connected to a motor controller (RTC) for dynamic braking of an induction motor.





For a 400 V application the following components are recommended:

S1 closed: Fuses:

Motor is running F2 - F3 FERRAZ

S1 opened: RTO 1210: Motor brakes and stops 6.9 gRB 10-16

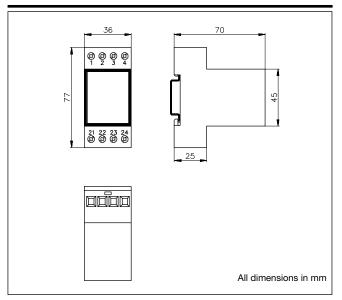
Varistors: RTO 1225: S20K420 Siemens 6.9 gRB 10-25

RC: RTO 1250:

PMR 209 Rifa 47 $\Omega/1.1 \, \mu F$ 6.921CP gRC 22 x 58/50



Dimensions



Housing Specifications

Weight	Approx. 250 g
Housing material	Noryl, black
Mounting	DIN rail
Terminals Mounting screws Mounting torque	M 3.5 ≤ 0.8 Nm
mounting to quo	_ 0.0 1 1111

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