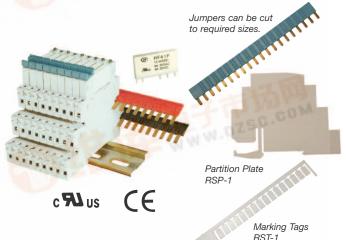
RS Series Relay Modules

At only 6.2mm thickness the RS series Relay module features a slim Din Rail mountable interface solution. The modules have a plug in construction and are available with or without the relay. The built in LED indicates the relay energizing state. The relay features a SPDT configuration and a maximum switching current of 6A. It is available with several standard coil voltages from 5VAC/DC up to 230V AC/DC.

There is a provision for fitting pluggable jumpers which reduces the wiring time. The modules have screw terminals with finger protection for wire termination and offer an IP 20 protection rating. The relay has an IP67 protection rating. Both the relay and the module are UL recognized.



shown on DIN rail with relays and jumpers

Part Number	Type number	Description	Std. Pk.
RSM-12CU	41F-1Z-C2-1-555 + HF41F/12-Z-S	6A@250VAC/30VDC,12VAC/DC Coil, 6.2 mm, LED, SPDT	10
RSM-24CU	41F-1Z-C2-1-555 + HF41F/24-Z-S	6A@250VAC/30VDC,24VAC/DC Coil, 6.2 mm, LED, SPDT	10
RSM-110CU	41F-1Z-C2-3-555 + HF41F/60-Z-S	6A@250VAC/30VDC,110VAC/DC Coil, 6.2mm, LED, SPDT	10
RSM-220CU	41F-1Z-C2-4-555 + HF41F/60-Z-S	6A@250VAC/30VDC,220VAC/DC Coil, 6.2mm, LED, SPDT	10
RSJ-RD	HF41F-AAJ-001-RD	Jumper for RSM, Red, 36A, 250V, 20 pole	10
RSJ-BK	HF41F-AAJ-001-BK	Jumper for RSM, Black, 36A, 250V, 20 pole	10
RSJ-BL	HF41F-AAJ-001-BL	Jumper for RSM, Blue, 36A, 250V, 20 pole	10
RSP-1	HF41F-AAS-001	Partition plate for RMS 2.2mm wide	10
BST-1	HF41F-AAT-001	Marking Tag strip for RSM, white (16 tags per strip)	4

RS Series Socket

CHARACTERISTICS

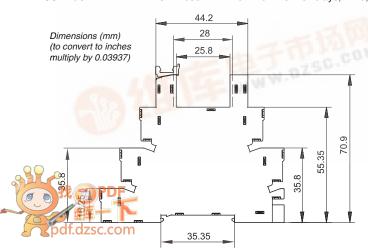
OHAHAO I EHIO HOO		
Ambient Temperature:	-40°C to +70°C (-40°F to +158°F)	
Rated Voltage:	250VAC	
Rated Current:	6A (per pole)	
Insulation Voltage (Min.):	5000VAC	
Protection:	IP20	
Socket Material:	PA66+GF V0 (UL)	
Contacts Spring Material:	QSn6.5-0.1	
Terminal Torque:	0.6Nm (5.3 lb. in.)	
Wire Strip Length:	7mm	
Applicable Relay Type:	RSR Series (41F)	

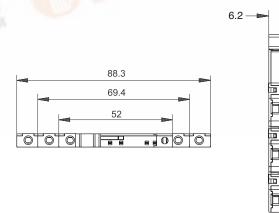
Part Number	Type number	Description
RSS-624U	41F-1Z-C2-1-555	For 6 to 24VAC/DC relays, IP20, LED
RSS-624D	41F-1Z-C2-5-555	For 6 to 24VDC relays, IP20, LED
RSS-4860U	41F-1Z-C2-2-555	For 48 to 60VAC/DC relays, IP20, LED
RSS-110U	41F-1Z-C2-3-555	For 110 VAC/DC relays, IP20, LED
RSS-220U	41F-1Z-C2-4-555	For 220 VAC/DC relays, IP20, LED



Notes: Module features/ functions:

- (1) LED indicates the coil energizing state.
- (2) Eliminates negative current of relays.
- (3) Rectifying function (only for VAC/DC types).





Altech

RS Series Subminiature Power Relay

FEATURES

- Slim size (width 5mm)
- High breakdown voltage 4kV (between coil and contacts)
- Surge voltage up to 6kV (between coil and contacts)
- Clearance/creepage distance: 8mm
- Coil power consumption: 170mW
- Contact configuration: SPDT (Form C)
- Environmental friendly product (RoHS compliant)
- Outlne Dimensions: 28.0 x 5.0 x 15.0mm







CONTACT INFORMATION

Contact arrangement	SPDT		
Initial contact Resistance Max.	100mΩ (at 1A/6VDC) Gold plated: 30mΩ (at 1A/6VDC)		
Contact material	AgNi		
	Resistive Load	6A/250VAC	
Contact rating	Tiesistive Load	6A/30VDC	
	Pilot Duty	R300	
Max. switching voltage	400VAC / 125VDC		
Max. switching current	6A		
Max. switching power	1500VA / 180W		
Mechanical life		10 million cycles	
Electrical life	10,000 cycles at 85°C (185°F)		

CHARACTERISTICS

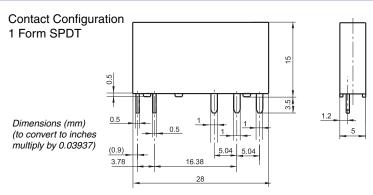
Initial insulation resistance			1000mΩ (at 500VDC)	
Dielectric	Between coil & contacts		ontacts	4000VAC 1 min.
strength	Between open contacts			1000VAC 1 min.
Operate tir	Operate time (at nominal voltage)			Max. 8ms
Release time (at nominal voltage)			Max. 4ms	
Shock resistance Vibration resistance		Functional		50m/s ² (5g)
		Destructive		1000m/s ² (100g)
			1n	nm double amplitude max @1055 Hz, 6G max

Humidity	5 to 85% RH
Ambient temperature	-40°C to +85°C (-40°F to +185°F)
Termination	Plug in; PCB mount
Unit weight	5.4g (0.2 oz.)
Construction	Sealed IP67. Flux proof

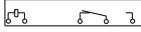
COIL

Coil power	5 to 24VDC: 170mW
consumption:	48VDC, 60VDC: 210mW

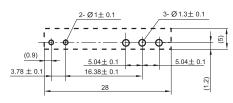
Part Number Description Type number **RSR-05DCS** HF41F/5-Z-S-555 SPDT, 5 mm, 5VDC Coil, IP67 RSR-06DCS HF41F/6-Z-S-555 SPDT, 5 mm, 6VDC Coil, IP67 RSR-12DCS HF41F/12-Z-S-555 SPDT, 5 mm, 12VDC Coil, IP67 **RSR-24DCS** HF41F/24-Z-S-555 SPDT, 5 mm, 24VDC Coil, IP67 RSR-48DCS HF41F/48-Z-S-555 SPDT. 5 mm. 48VDC Coil. IP67 **RSR-60DCS** HF41F/60-Z-S-555 SPDT, 5 mm, 60VDC Coil, IP67

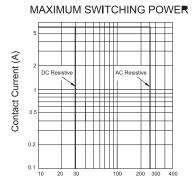


Wiring Diagram



PCB Layout



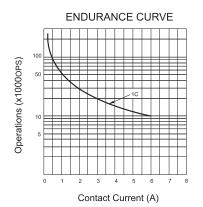


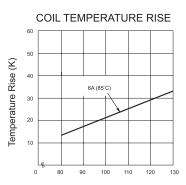
Contact Voltage (V)

COIL DATA

at	20	10	\sim

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 85°C	Coil Resistance (Ω)
5	3.75	0.25	6.50	147 ± 10%
6	4.50	0.30	7.80	212 ± 10%
12	9.00	0.60	15.6	848 ± 10%
24	18.0	1.20	31.2	3390 ± 15%
48	36.0	2.40	62.4	10600 ± 15%
60	45.0	3.00	78.0	16600 ± 15%





Percentage Of Nominal Coil Voltage