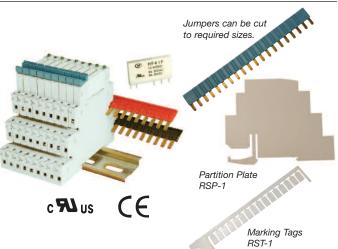
RS Series Relay Modules

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
RST-1	HF41F-AAT-001	Marking Tag strip for RSM, white, (16 tags per strip)	4

RS Series Socket CHARACTERISTICS

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
RSS-624U	41F-1Z-C2-1-555
RSS-624D	41F-1Z-C2-5-555
RSS-4860U	41F-1Z-C2-2-555
RSS-110U	41F-1Z-C2-3-555
RSS-220U	41F-1Z-C2-4-555

Description For 6 to 24VAC/DC relays, IP20, LED For 6 to 24VDC relays, IP20, LED For 48 to 60VAC/DC relays, IP20, LED For 110 VAC/DC relays, IP20, LED For 220 VAC/DC relays, IP20, LED



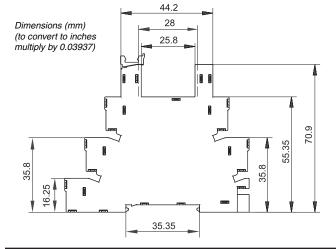


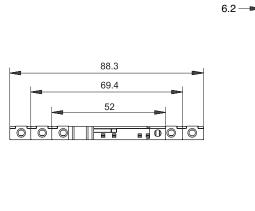
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Notes: Module features/ functions:

(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

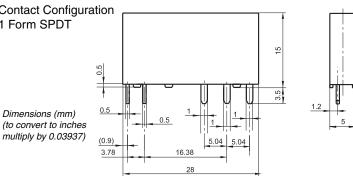
CONTACT INFORMATION Contact arrangement



File No.:E133481 D File No.:40020043

Contact arrangement	SPDT		Part Number	Type number	Description
Initial contact		00mΩ (at 1A/6VDC)	RSR-05DCS	HF41F/5-Z-S-555	SPDT, 5 mm, 5VDC Coil, IP67
Resistance Max.	Gold plated: 3	30mΩ (at 1A/6VDC)	RSR-06DCS	HF41F/6-Z-S-555	SPDT, 5 mm, 6VDC Coil, IP67
Contact material	AgNi		RSR-12DCS	HF41F/12-Z-S-555	SPDT, 5 mm, 12VDC Coil, IP67
Contact rating	Resistive Load	6A/250VAC	RSR-24DCS	HF41F/24-Z-S-555	SPDT, 5 mm, 24VDC Coil, IP67
		6A/30VDC	RSR-48DCS	HF41F/48-Z-S-555	SPDT, 5 mm, 48VDC Coil, IP67
	Pilot Duty	R300	RSR-60DCS	HF41F/60-Z-S-555	SPDT, 5 mm, 60VDC Coil, IP67
Max. switching voltage		400VAC / 125VDC	Contact Configu	iration	
Max. switching current	6A		1 Form SPDT		
Max. switching power 1500VA / 180		1500VA / 180W			
Mechanical life		10 million cycles			12
Electrical life	10,000 cycles	s at 85°C (185°F)		0.5	

CDUT

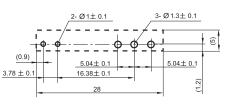


CHARACTERISTICS

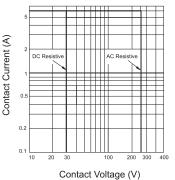
Initial insu	lation resist	tance		1000mΩ (at 500VDC)	
Dielectric	Between coil & contacts			4000VAC 1 min.	
strength	Between open contacts			1000VAC 1 min.	
Operate time (at nominal voltage)			oltage)	Max. 8ms	
Release ti	me (at nom	inal v	oltage)	Max. 4ms	
Shock resistance		Fund	tional	50m/s² (5g)	
		Destructive		1000m/s ² (100g	
Vibration resistance			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	

Wiring Diagram ኮግ ገ





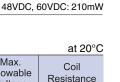
MAXIMUM SWITCHING POWER



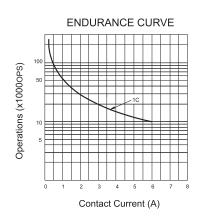
Coil power consumption:

COIL

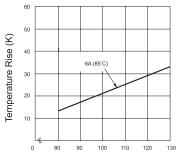
COIL DATA at 20°C						
Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 85°C	Coil Resistance (Ω)		
5	3.75	0.25	6.50	147 ± 10%		
6	4.50	0.30	7.80	212 ± 10%		
12	9.00	0.60	15.6	848 ± 10%		
24	18.0	1.20	31.2	3390 ± 15%		
48	36.0	2.40	62.4	10600 ± 15%		
60	45.0	3.00	78.0	16600 ± 15%		



5 to 24VDC: 170mW



COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage