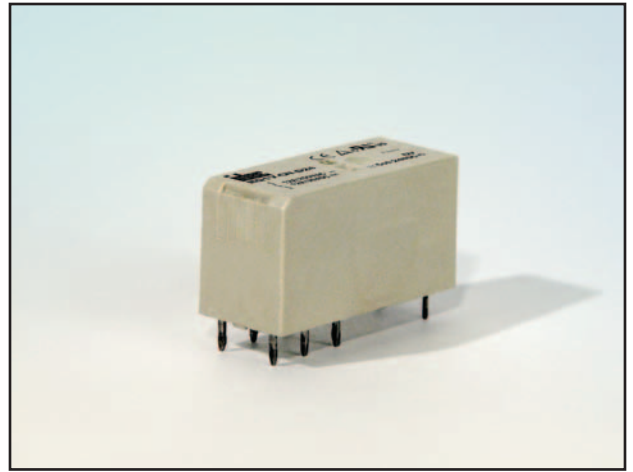




RQ Series Relays

Features

- Low profile:
29 x 12.7 x 15 mm
- Contact rating:
8A and 12A
- Power relay model with 16A contact rating
- Operational life:
100K cycles at full resistive load
10 million cycles, no load
- LED/Diode Plug-in modules available with DIN rail socket



IDEC's RQ relays are low-profile, PCB relays that provide quality within a compact package. Size equals value. RQ relays are small, yet maintain high contact ratings and long operational life. For larger power needs, a 16A model is also available.



Specifications

			RQ1	RQ2	RQ1 HC
General information	No. of poles		1	2	1
	Contact Configuration		SPDT	DPDT	SPDT
	Contact Rating		12A	8A	16A
	Contact Material		Silver-Nickel alloy		
	Contact Resistance		100 milliohms max		
	Operating Time		12 ms max		
	Release Time		8 ms max		
	Dielectric Strength	Between contact and coil Between contacts	5,000VAC, 1 minute 1,000VAC, 1 minute		
	Vibration Resistance	Damage limits Operating extremes	10-55 Hz, amplitude 1.5mm 10-55 Hz, amplitude 1.5mm		
	Shock Resistance	Damage limits Operating extremes	100m/s ² min (10G) 1,000m/s ² min (100G)		
	Mechanical Life		10,000,000 operations		
	Electrical Life @ Full Rated Load		100,000 operations		
	Operating Temperature		-40 to 85° C		
	Operating Humidity		45 to 85% RH		
	Dimensions (H x W x D mm)		29 x 12.7 x 15		
	Weight (Approx.)		15g		

Coil Ratings	Coil Sensitivity	Nominal Voltage	Nominal Current		Coil Resistance		Power Consumption		Pull-in Voltage	Drop-Out Voltage	Max Allowable Voltage
			50HZ	60HZ	50HZ	60HZ	50HZ	60HZ			
	DC Coil	12V	33.3mA		360Ω		0.40W		80% Max	5% Min	130%
		24V	16.7mA		1,440Ω						
		110V	4.1mA		26,530Ω						
	AC Coil	24V	29.75mA	25.35mA	350Ω		0.71W	0.61W		30% Min	
		115V	7.65mA	6.3mA	8,100Ω		0.88W	0.73W			
230V		3.42mA	2.72mA	32,500Ω		0.79W	0.63W				

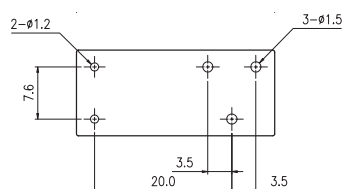
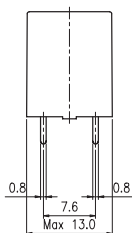
Specifications con't on following page

Diagram illustrating the connection between the RQ (Relay Queue) and the V-C (Voltage Control) unit.

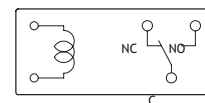
The RQ unit is connected to the V-C unit via the following configurations:

- Contact Configuration:**
 - 1 - SPDT
 - 2 - DPDT
- Pin Spacing:**
 - M - 3.5mm, SPDT 12A
 - H - 5mm, SPDT 16A*
 - N - 5mm, DPDT 8A

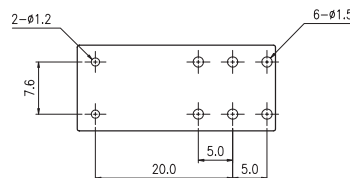
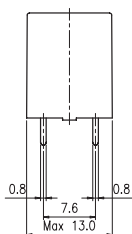
*mounts in DPDT socket
- Coil Voltage:**
 - D12 - DC12V; D24 - DC24V
 - A24 - AC24V; A115 - AC120V; A230 - AC240V



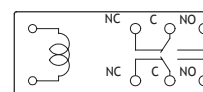
RQ1



Technical drawing of a 1000mm wide door. The drawing shows a side view of the door with various dimensions. The total width is 1000mm. The height is 1600mm. The door is divided into three vertical sections. The left section is 270mm wide. The middle section is 200mm wide. The right section is 530mm wide. The door has a 35mm thick top rail and a 35mm thick bottom rail. The door is shown in a closed position.



RQ2



Technical drawing of the SO1V+07B 2A/300VAC~ power switch. The drawing shows a side view of the switch with dimensions in millimeters. Key dimensions include a total width of 75.7mm, a mounting hole diameter of 26mm, and a switch body width of 21.3mm. The switch is labeled 'idec', 'SO1V+07B', and '2A/300VAC~'. It also features a CE mark and a UL 508 certification mark. A dashed line indicates a break in the drawing.

Technical drawing of the IDEC SQ2V-07B terminal block. The drawing shows a side view of the component with various dimensions and labels. Key dimensions include a total width of 75.7, a mounting hole spacing of 22.1, and a terminal spacing of 12. Labels include 'idec', 'SQ2V-07B', '10A/300VAC', and 'CE'. A callout shows a detail of the terminal block's internal structure.



www.idec.com/relay

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Part #RQ9Y-DS100-0

Accessory part numbers	Description
SQ1V-07B	SPDT Finger-safe Socket
SQ2V-07B	DPDT Finger-safe Socket
SQ9Z-C	Replacement Retaining Clip
SQ9Z-LD	Socket Plug-in LED & Diode Module (6-24V DC)
SQ9Z-LR	Socket Plug-in LED & RC Module (110-230V AC)
SQ9Z-P	Replacement Marking Plate