

**Features**

- 60A high contact capability.
- Making current: 1700A, short circuit current: 3000A.
- Switching power: 15kVA.
- Low coil power consumption.
- Excellent anti-shock ability.
- Long service endurance.
- Single and dual coil relays available.

**Safety Approval**

CQC File No.: CQC09002033442

**Contact Capacity**

Model	SY75
Nominal switching capacity (res. load)	60A 250VAC
Max. switching current	60A
Max. switching voltage	250VAC
Max. switching power	15,000 VA

**Charateristic Data**

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	2mΩ Max.	
Operate time (at nominal volt.)	20msec. Max.	
Release time (at nominal volt.)	20msec. Max.	
Initial insulation resistance	1,000MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC1,500V, 50/60Hz 1Min.	
	Between coil and contact: AC4,000V, 50/60Hz 1Min.	
Vibration resistance	Functional	10 ~ 60Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 60Hz at double amplitude of 1.5 mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 7,200 ops./h)	50,000
	Electrical (at 600 ops./h)	10,000 ops.
Ambient temperature	-40°C ~ +70°C (no condensation)	
Unit weight	Approx. 33.0 g	

**Coil Data (at 20°C)**

**Sensitivity type**

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Dual coil resistance ± 10% (Ω)		Single coil resistance ± 10% (Ω)	Set voltage (Max.)	Reset voltage (Max.)	Pulse duration (ms)	Nominal operating power
5	200	12.5	12.5	25	80 % of nominal voltage	80 % of nominal voltage	80 Min.	Single/Dual: 1.0W/2.0W
6	166.67	18	18	36				
9	111	40.5	40.5	81				
12	83.33	72	72	144				
15	66.67	112.5	112.5	225				
18	55.56	162	162	324				
24	41.67	288	288	576				
48	20.83	1,152	1,152	2,304				

## Coil Data (at 20°C)

Standard type

Nominal voltage (VDC)	Nominal operating current $\pm 10\%$ (mA)	Dual coil resistance $\pm 10\%$ ( $\Omega$ )		Single coil resistance $\pm 10\%$ ( $\Omega$ )	Set voltage (Max.)	Reset voltage (Max.)	Pulse duration (ms)	Nominal operating power
5	300	8.3	8.3	16.7	80 % of nominal voltage	80 % of nominal voltage	80 Min.	Single/Dual: 1.5W/3.0W
6	250	12	12	24				
9	166.66	27	27	54				
12	125	48	48	96				
15	100	72	72	150				
18	83.33	108	108	216				
24	62.50	192	192	384				
48	33.25	768	768	1,536				

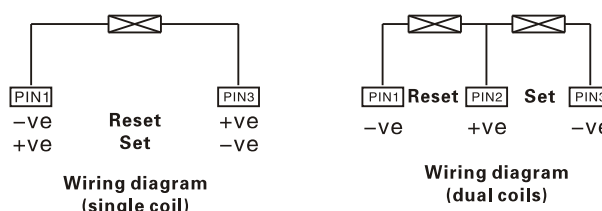
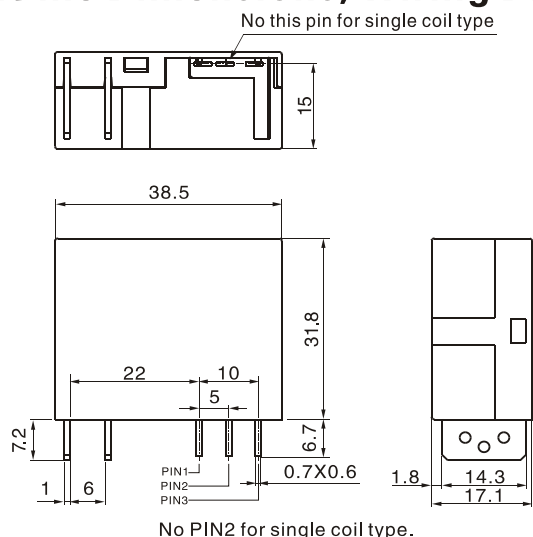
## Safety Approval Ratings

Approval	CQC
File No.	CQC09002033442
Approved ratings	60A 250VAC

## Ordering Information

Nomenclature	
SY75-1 12 D M 1-XX	
	Special Parameter: Nil-Standard type, Letter or number-Special requirement
	Coil Type: 1-Single coil, 2-Dual coils
	Contact Form: M-Form A
	Coil Power: L-single/dual: 1.0W/2.0W; D-single/dual: 1.5W/3.0W
	Coil Voltage (VDC): 05, 06, 09, 12, 15, 24, 48
	Number of Poles: 1-1 Pole
	Type Designation: SY75

## Outline Dimensions, Wiring Diagram, Mounting Holes (unit: mm)



Unless otherwise specified:  
 If dimension < 1mm, tolerance:  $\pm 0.2\text{mm}$ ;  
 If dimension 1~5mm, tolerance:  $\pm 0.3\text{mm}$ ;  
 If dimension > 5mm, tolerance:  $\pm 0.4\text{mm}$ .  
 Note: 1. Extended terminal dimension is dimension before soldering.  
 2. Tolerance of mounting holes :  $\pm 0.1\text{mm}$ .

## **Typical Applications**

- IC card ammeter, industrial machinery, electrical equipment and home appliances, etc.