



**Features**

- High contact capability.
- Standard designed and manufactured according to DIN IEC 225.
- 1-00/VDE 0435 part 201 and LVD compliant requirement.
- High anti-vibration performance.
- Single and dual coil relays available.

**Safety Approval**

VDE File No.: 40020159  
CQC File No.: CQC09002033441

**Contact Capacity**

Model	SY73
Nominal switching capacity (res. load)	25A 250VAC
Max. switching current	25A
Max. switching voltage	250VAC
Max. switching power	6,250 VA

**Charateristic Data**

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	10mΩ Max.	
Operate time (at nominal volt.)	10msec. Max.	
Release time (at nominal volt.)	10msec. 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 3,600 ops./h)	1,000,000
	Electrical (at 600 ops./h)	30,000
Ambient temperature	-40°C ~ +85°C (no condensation)	
Unit weight	Approx. 32.0 g	

**Coil Data (at 20°C)**

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)	Sensitivity
								Nominal operating power
5	200	12.5	12.5	25	80 % of nominal voltage	80 % of nominal voltage	20 Min.	Single/Dual: 1.0W/2.0W
6	166.7	18	18	36				
9	111	40.5	40.5	81				
12	83	72	72	144				
15	66.67	112.5	112.5	225				
18	55.56	162	162	324				
24	41.7	288	288	576				
48	20.8	1,152	1,152	2,304				

## Coil Data (at 20°C)

Standard

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	300	8.68	8.68	17.36	80 % of nominal voltage	80 % of nominal voltage	20 Min.	Single/Dual: 1.5W/3.0W
6	250	12.5	12.5	25				
9	166.66	28.12	28.12	56.25				
12	125	50	50	100				
15	100	112.5	112.5	225				
18	83.33	162	162	324				
24	62.50	200	200	400				
48	33.25	800	800	1,600				

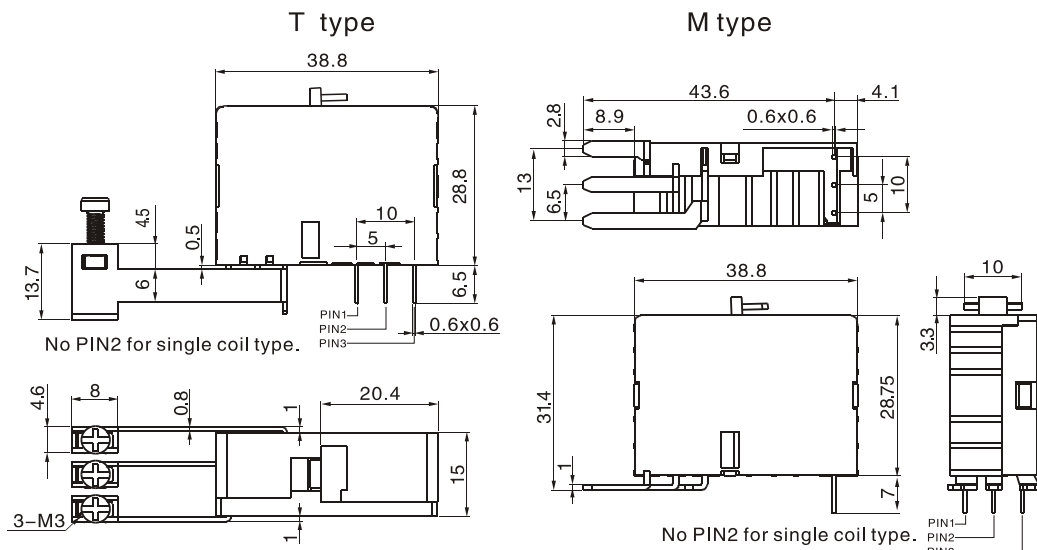
## Safety Approval Ratings

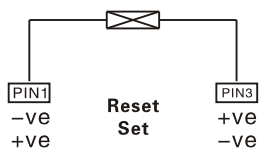
Approval	CQC	VDE
File No.	CQC09002033441	40020159
Approved ratings	25A 250VAC	25A 250VAC

## Ordering Information

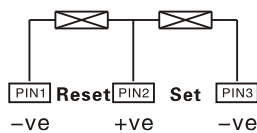
Nomenclature	
SY73-1 12 D M 1-M-XX	
	Special Parameter: Nil-Standard type, Letter or number-Special requirement
	Terminal Type: M-Soldering, T-Screw mounting
	Coil Type: 1-Single coil, 2-Dual coils
	Contact Form: Nil-Form C, M-Form A
	Coil Power: L-single/dual: 1.0W/2.0W; D-single/dual: 1.5W/3.0W
	Coil Voltage (VDC): 05, 06, 09, 12, 15, 24, 48
	Number of Poles: 1-1 Pole
	Type Designation: SY73

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

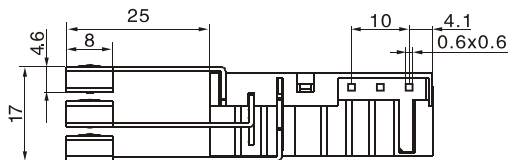




**Wiring diagram  
(single coil)**



**Wiring diagram  
(dual coils)**



**T type**



**M type**

**Mounting Dimensions**

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

● Electrical equipment

● Air adjustor

● Industrial machinery