

Relay Specification for approval

Type Model

1 Kinds: Electromagnetic Relay

1.2 Type: CMA3-1U 12VDC (792H) 40A

1.3 Outline: 28mm×28mm×25mm (+11.5mm)

1.4 Contact Arrangement: A/B/C

1.5 Contact Material: Silver



2 Coil

Rating

at 23 °C

Nominal Voltage	Pick-up Voltage	Drop-out Voltage	Max. Allowable Voltage	Coil Resistance	Coil Power
Vd. c.	Vd. c.	Vd. c.	Vd. c.		W
				Ω	
12	≤8.4	≥1.2	15.6	85 × (1 ± 10%)	1.7

3 Contact Specification

3.1 Contact Rating: 40 A 13.5 Vd. c.

3.2 Max. Contact Current: NO:40A

3.3 Max. Contact Voltage: 75 Vd. c.

3.4 Min. Applicable Load: 6 V d.c. 1 A

4 Performance

4.1 Contact Resistance: 50 mΩ max. (at 6 Vd.c. 1A)

4.2 Operate Time: ≤ 10 ms

4.3 Release Time: ≤ 5 ms

4.4 Life

(1) Electrical Endurance

100000 (40A/13.5Vd.c. 85°C,

cycle/min,

duty factor 50%).

(2) Mechanical Endurance

1×10^7 o.

1×10^7 times (no load at operating frequency of 18000 ops/hour).

4.5 Dielectric Strength (Leak Current: 1 mA)

(1) Between Contacts: 500 Va.c. (50/60 Hz 1 min)

(2) Between Coil To Contacts: 500 Va.c. (50/60 Hz 1 min)

4.6 Insulation Resistance

(2) Between Coil To Contacts: 100 MΩ (500 Vd.c.)

4.7 Vibration

Durability 10mm DA, frequency 5 Hz to 22.5 Hz.

4. 8 Shock

Malfunction acceleration 98 m/s²(Duration 11 ms).

Durability Acceleration 294 m/s²(Duration 11 ms).

5 Standards Test Condition

5.1 Temperature: 15 °C ~ 35 °C

5.2 Humidity: 25 % ~ 75 %

6. Operating Condition

6.1 Temperature: -30 °C ~ 70 °C

6.2 Humidity: 35 % ~ 85 %

7. Storage Condition

7.1 Temperature: 0 °C ~ 40 °C

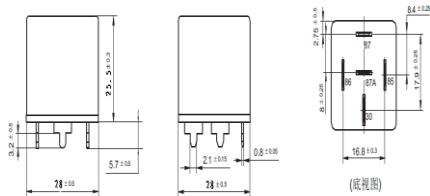
7.2 Humidity: 20% ~ 80 %

7.3 Environment

(1) Store in locations where the product is not exposed to corrosive gas.

(2) Keep product is not exposed to the direct ray of the sun.

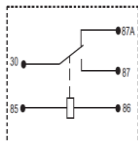
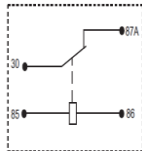
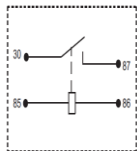
Configuration



A型

B型

C型



9 Ordering

Information

HY603 - 12VDC - C - S - R

① ②

③ ④

⑤

① Type : HY603

② Coil voltage : 12: 12Vd. c.

③ Contact arrangement : (A/B/C)

④ Structure form : /PCB (G/S/T/P)

RUICHI

