



- Limiting continuous current up to 200A
- IP67 Sealed
- M6 Male or optional M6 threaded terminals for power contacts
- Quick "fast-on" connection for coil terminals

RoHS
Compliant ✓

Contacts

Contact arrangement	SPST-NO
Contact material	AgSnO ₂
Max. switching voltage	DC 40V
Rated load (14VDC resistive at 23°C)	DC1 200A (25mm ²)
Rated load (14VDC resistive at 23°C)	DC1 100A
Max. switching current (resistive)	14VDC 200A
	24VDC 100A
Initial resistance	≤100mΩ (1A/24VDC)

Coil

Rated voltage	DC 12, 24V
Must release voltage	≥0.125Un
Operating range	See Table 1
Rated power consumption	DC 2.4W

Insulation

Insulation resistance	100MΩ at 500VDC, 25°C, 50%RH	
Dielectric strength	coil to contact	750Vrms, 1min
	open contacts	500Vrms, 1min

General Data

Operating time	max.	10ms (excl. bounce, without coil suppression)
Release time	max.	5ms (excl. bounce, without coil suppression)
Electrical life	ops.	1 x 10 ⁵
Mechanical life	ops.	1 x 10 ⁷

Environmental

Environmental protection	operating	IP67
Ambient temperature	operating	-40 to +85°C
	storage	-40 to +100°C
Shock resistance	functional	147m/s ² 11ms
Vibration resistance		10Hz - 40Hz, double amplitude 1.5mm
Dimensions	L x W x H	46 x 46 x 45mm, excl. bracket & terminals (Fig.1)
Weight	approx.	90g

Ordering Code

D G 8 6 N - 3 0 2 1 - 9 8 - 1 0 1 2 - D R

Series

Coil code:

See table 1

Contact material

30: AgSnO₂

Contact arrangement

21: SPST-NO (1 N/O, 1 Form A)
(twin contact)

Mounting

9: IP67 Cover with mounting bracket

Terminations

2: Power terminals with M6 threaded holes,
coil terminals 6.3mm "fast-on" blades in shroud
to suit Yazaki® 7123-6020 style connector

8: M6 male screw terminals for contacts,
6.3mm "fast-on" blades for coil

Parallel component options

Blank: No option

R: Resistor (see table 1 for values)

D: Diode +85 / -86 (1N4007)

DR: Diode reversed -85 / +86 (1N4007)

DC Coil Data

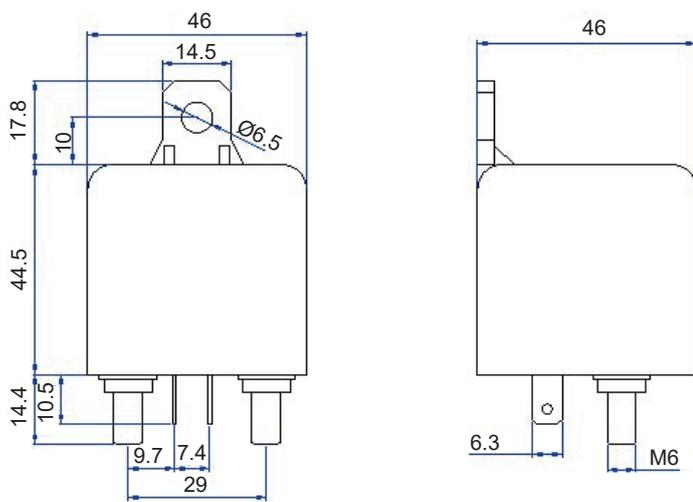
Table 1

Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Parallel resistor (optional) ± 10% (Ω)
1012	12	60	7.8	1.2	560
1024	24	240	15.6	2.4	2200

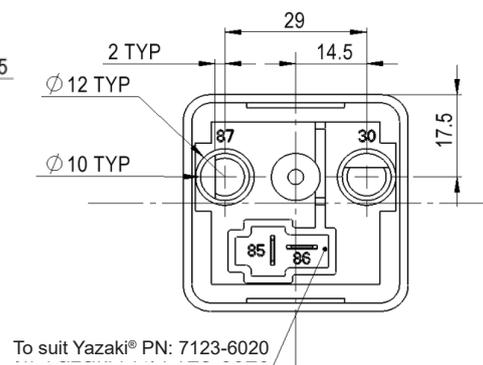
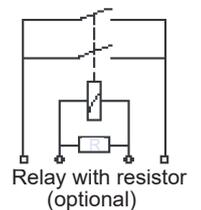
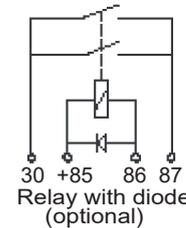
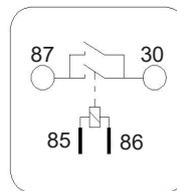
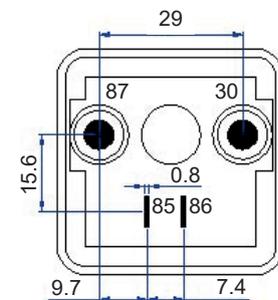
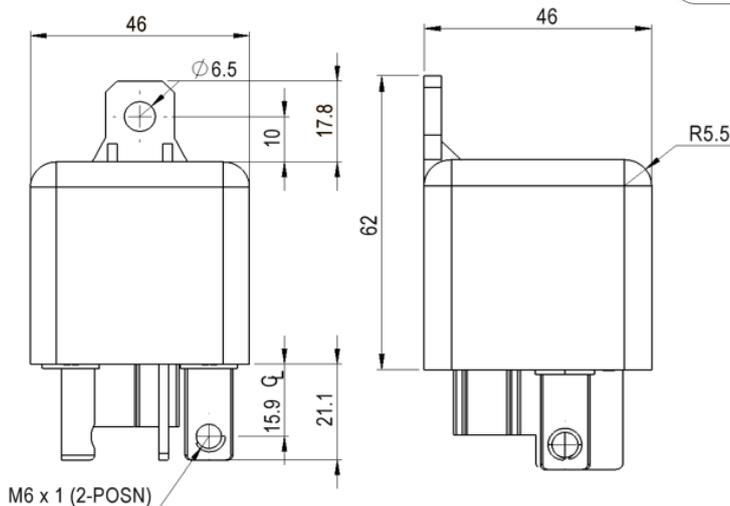
* At ambient temperature of 85°C, maximum allowable voltage should be reduced by 28%.

Dimensions mm

M6 Male screw power terminals
(terminal option "8")



Power terminals with M6 threaded holes
(terminal option "2")



To suit Yazaki® PN: 7123-6020

Recommended torque 7Nm. Do not exceed 10Nm.

Notes: 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.