

MINIATURE INTERMEDIATE POWER RELAY

c **UL** US



- 30A switching capabilities
- Creepage distance: 8mm
- 4KV dielectric strength
(between coil and contacts)
- Meets Class F construction
- Dust cover & sealed IP67 types available
PCB & QC layouts
- Environmental protection product available
(RoHs & WEEE compliant)

CONTACT DATA

Contact Arrangement	2A , 2C
Initial Contact Resistance Max.	50mΩ (at 1A 6VDC)
Contact Material	AgSnO ₂ , AgCdO
Contact Rating (Res. Load)	NO:30A 250VAC; 20A 28VDC NC: 3A 277VAC/28VDC
Max. switching voltage	277VAC/30VDC
Max. switching current	30A
Max. switching power	7500VA/560W
Mechanical life	5 x 10 ⁶ OPS
Electrical life	1 x 10 ⁵ OPS

CHARACTERISTICS

Initial Insulation Resistance	1000MΩ, 500VDC	
Dielectric Strength	Between coil and contacts	4000VAC 1min.
	Between open contacts	1500VAC 1min.
	Between contact poles	2000VAC 1min.
Surge Voltage between contacts and coil	10000VAC	
Operate time (at nomi. Vot.)	Max. 25ms (DC type)	
Release time (at nomi. Vot.)	Max. 25ms (DC type)	
Temperature rise (at nomi. Vot.)	Max. AC: 85°C	
	Max. DC: 65°C	
Shock Resistance	Functional	100 m/s ²
	Destructive	1000 m/s ²
Vibration Resistance	DA 1.65mm, 10 to 55Hz	
Humidity	35% to 85%, +40°C	
Ambient temperature	AC: -40°C to +65°C	
	DC: -40°C to +85°C	
Termination	PCB & QC	
Unit weight	Approx, 86g	
Construction		

SAFETY APPROVAL RATINGS

UL	N.O.	30A 277VAC 1HP 120VAC 2.5HP 240VAC 110 LRA/25.3 FLA, 240VAC (DC COIL)
	N.C.	3A 277VAC

COIL

DC: 1.7W AC: 4.0VA

COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage (at 20°C)VDC	Coil Resistance Ω
5	3.8	0.5	5.5	15.3 ± 10%
6	4.5	0.6	6.6	22 ± 10%
12	9	1.2	13.2	86 ± 10%
24	18	2.4	26.4	350 ± 10%
48	36	4.8	52.8	1390 ± 10%
110	82.5	11	121	7255 ± 10%

(50Hz)

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. allowable Voltage (at 20°C)VAC	Coil Resistance Ω
24	19.2	4.8	26.4	45 ± 10%
120	96	24	132	1125 ± 10%
208	166.4	41.6	228.8	3278 ± 10%
220	176	44	242	3800 ± 10%
240	192	48	264	4500 ± 10%
277	221.6	55.4	304.7	5960 ± 10%

(60Hz)

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. allowable Voltage (at 20°C)VAC	Coil Resistance Ω
24	19.2	4.8	26.4	39 ± 10%
120	96	24	132	950 ± 10%
208	166.4	41.6	228.8	2841 ± 10%
240	192	48	264	3800 ± 10%
277	221.6	55.4	304.7	5485 ± 10%

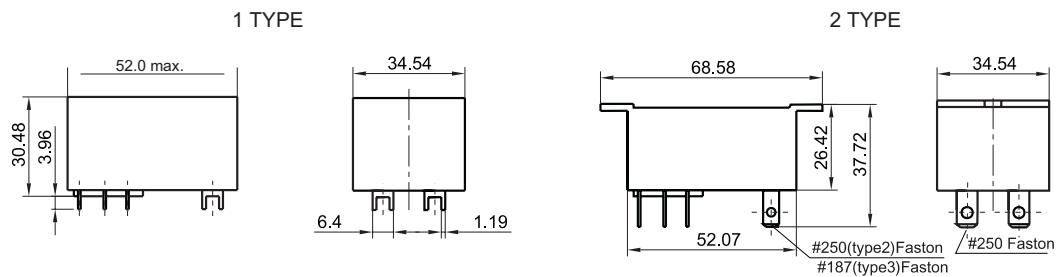
Note:(1)Voltage change of AC relay coil is not higher than 10% of rated coil voltage.

ORDERING INFORMATION

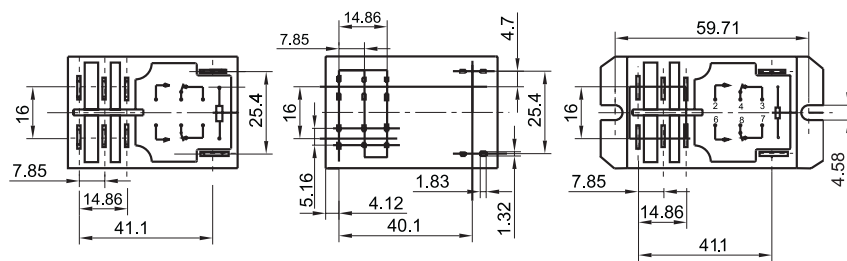
Type	692 / 012 D 2C 2 2 F XXX
Coil voltage	DC: 5 to 110VDC AC: 24 to 277VAC
Coil input	D: DC A5: AC 50Hz A6: AC 60Hz
Contact arrangement	2A: 2 Form A 2C: 2 Form C
Termination	1: PCB 2, 3: QC
Contact Material	1: AgSnO ₂ 2: AgCdO
Structure	F: Dust cover S: Sealed IP67
Special request code	(For example: 551: Lead-free 555: RoHs & WEEE compliant)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

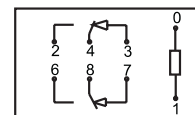
Outline Dimensions



PCB layout



Wiring Diagram



CHARACTERISTICS CURVE

