DG36
industrial power relays

- Two Pole heavy duty power relays
- Up to 30A switching capacity
- Flat insert connectors - faston 6.35 x 0.8 mm
- Optional PCB mounting
- 8mm creepage distance and 4kV dielectric
- Meets UL, VDE & RoHS standards

Contacts

Contact number & arrangement		DPST - NO (2 Form A or 2NO), DPDT (2 Form C or 2CO),
Contact material		AgCdO, AgSnOInO
Max. switching voltage		277V AC
Min. switching voltage	AC / DC	10V
Rated Load	AC1	30A / 277VAC DPST-NO; 30A/277VAC NO, 3A/277VAC NC DPDT
	DC1	20A / 28VDC DPST-NO; 20A/28VDC NO, 3A/28VDC NC DPDT
Min. switching current		100mA@10VAC NC contacts, 500mA@12VAC NO contacts
Max. inrush current		30A Normally open contact
Rated current		30A Normally open contact / 3A Normally closed contact
Max. breaking capacity	AC1	7500 VA
Min. breaking capacity		1W
Resistance		< 50mΩ at 1A,6VDC
Max. operating frequency		
at rated load	AC1	840 cycles / hour
no load		840 cycles / hour

Coil

Rated voltage	AC	24... 277V AC 50/60Hz
	DC	6... 110V DC
Must release voltage		AC: ≥ 0.20U_n DC: ≥ 0.10U_n
Operating range of supply voltage		See Tables 1, 2
Rated power consumption		AC: 4VA (50Hz) DC: 1.7W

Insulation

Insulation category	C250
Insulation rated voltage	250VAC
Dielectric strength	
coil - contact	4000V AC
contact - contact	1500V AC between open contacts
pole - pole	2000V AC
Contact - coil distance	
clearance	8mm
creepage	8mm

General data

Operating time (typical value)	15msec
Release Time	10msec
Electrical Life	
resistive AC1	> 10^5
cos Ø	
Mechanical life	> 5 x 10^6
Motor Load	1hp @ 120VAC, 2.5hp @ 250VAC
Dimensions (L x W x H)	68.6 (over mounting flange) x 34.5 x 37.7mm max
Weight	86g approx.
Ambient Temperature	
storage	-55... + 155°C
operating	DC Coil: -55... + 85°C, AC Coil: -40... + 65°C
Cover protection category	IP40 (Dust Cover) or IP67 (fully sealed)
Shock resistance	10g, 11ms functional; 100g destructive
Vibration resistance	DA 1.65mm, 10 - 55Hz

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Coil data - DC voltage version

Table 1

Coil code	Rated voltage V DC	Coil resistance ± 10% at 20ºC Ω	Must operate voltage @ 23°C V DC.	Must release voltage @ 23°C V DC.
1006	6	22	4.5	0.6
1012	12	86	9.0	1.2
1024	24	350	18.0	2.4
1048	48	1390	36.0	4.8
1110	110	7255	82.5	11.0

Coil data - AC 50Hz voltage version

Table 2

Coil code	Rated voltage V AC	Coil resistance ± 10% at 20ºC Ω	Must operate voltage @ 23°C V AC.	Must release voltage @ 23°C V AC.
3024	24	52	19.2	4.8
3120	120	1390	96.0	24.0
3208	208	3800	166.4	41.6
3240	240	5200	192.0	48.0
3277	277	7255	221.6	55.4

Coil data - AC 60Hz voltage version

Table 3

Coil code	Rated voltage V AC	Coil resistance ± 10% at 20ºC Ω	Must operate voltage @ 23°C V AC.	Must release voltage @ 23°C V AC.
6024	24	39	19.2	4.8
6120	120	950	96.0	24.0
6208	208	2841	166.4	41.6
6240	240	3800	192.0	48.0
6277	277	5200	221.6	55.4

Standard Types - see Page 3 for Ordering Codes

DG36-3022-S6-1012	Flange Mount DPST-NO, 12VDC Coil
DG36-3022-S6-1024	Flange Mount DPST-NO, 24VDC Coil
DG36-3022-S6-6024	Flange Mount DPST-NO, 24VAC 60Hz Coil
DG36-3022-S6-6120	Flange Mount DPST-NO, 120VAC 60Hz Coil
DG36-3022-S6-3240	Flange Mount DPST-NO, 240VAC 50Hz Coil

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Ordering Codes

Type	Contact material	Contact number & arrangement	Cover protection category	Connection mode	Coil code
D G 3 6 -			-		-

Contact Material

10 - AgCdO
30 - AgSnO2

Contact number & arrangement

12 - DPDT (2C/O)
22 - DPST-NO (2NO)

Cover protection category

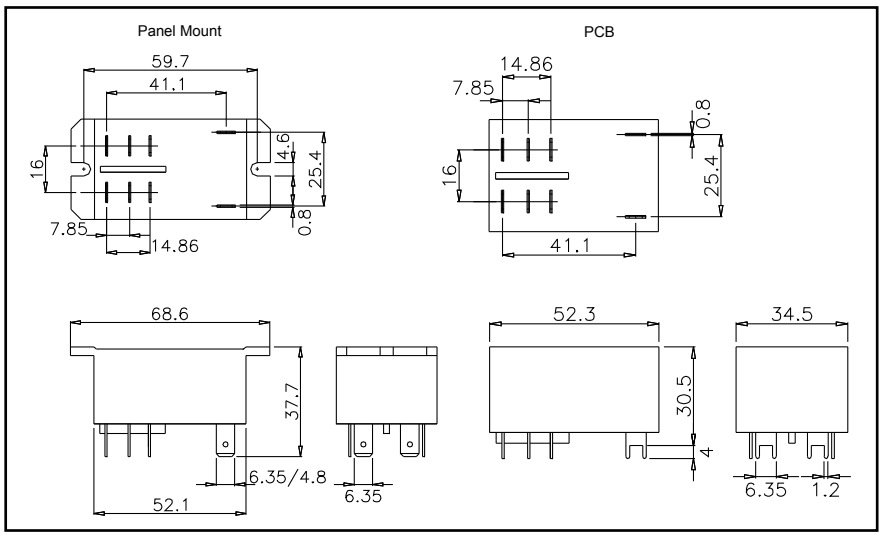
8 - in cover, IP 64 (for PCB mounting)
S - in cover, IP 64 (for panel mounting)

Connection mode

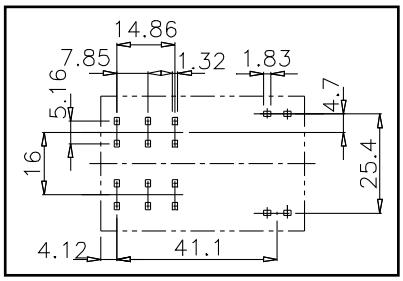
5 - PCB pins
6 - for flat insert connectors - fast-on 6.3 x 0.8mm

see Tables 1, 2 & 3

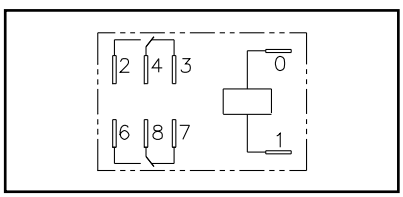
Dimensions



PCB Layout



Connection Layout



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