



- High current switching - 6,600VA max.
- Good inrush current resistance
- Wide range AC coils
- DIN Rail mounting options
- Screw, plug-in or PCB terminals
- Applications include heaters, HVAC and motor controls



## Contacts

Contact arrangement	SPST-NO (1 Form A); DPST-NO (2 Form A)
Contact material	AgSnO <sub>2</sub>
Max. switching voltage	AC/DC 250VAC, 30VDC
Min. breaking capacity	1W
Rated load (resistive - cos φ=1)	AC1 SPST-NO, DPST-NO PCB : 20A/220VAC SPST-NO: 30A/220VAC / DPST-NO: 25A/220VAC
Max. switching power	4,400VA (PCB); 5,500VA (DPST-NO); 6,600VA (SPST-NO)
Initial resistance	≤ 50mΩ, max. at 1A/24VDC
Max. operating frequency at rated load	AC1 1,800 cycles per hour

## Coil

Rated voltage	AC 6...200/240V, DC 6...100V
Must release voltage	≥0.15Un
Operating range	See tables 1 & 2

## Insulation

Insulation resistance	≥1000MΩ at 500VDC, 50%RH
Impulse withstand voltage	Between coil and contact: 10,000V
Dielectric strength	coil to contact 4,000Vrms, 1min (50/60Hz)
	contacts of the same pole 2,000Vrms, 1min (50/60Hz)
	contacts of different poles (DPST-NO) 2,000Vrms, 1min (50/60Hz)

## General Data

Operating time	typ. ≤ 30
Release time	typ. ≤ 30
Electrical life	ops. 1 x 10 <sup>5</sup> at 1,800 ops/hour at rated load (Fig. 1)
Mechanical life	ops. 5 x 10 <sup>6</sup> at 1,800 ops/hour

## Environmental

Ambient temperature	-40 to +85°C
Shock resistance	approx. 100G mechanical durability,
	10G malfunction durability
Vibration resistance	DA 1.5mm 10-55Hz
Dimensions	L x W x H Various - see Fig. 2
Weight	approx. 90g (3.17oz) quick connect (fast-on)
	approx. 100g (3.52oz) PCB terminal
	approx. 120g (4.23oz) Screw terminal

## Ordering Code

D L R 3 0 - 2 1 2 6 - 5 2 3 0 - K - B

### Series

### Contact material

30: AgSnO<sub>2</sub>

### Contact arrangement

- 21: SPST-NO (1 N/O)  
22: DPST-NO (2 N/O)

### Environmental protection IP40

- 2: In cover  
4: Cover with flange mount  
9: Cover with flange & DIN rail mount

### Mounting & terminations

- 5: For PCB  
6: 6.35mm quick connect blade terminals  
8: Screw terminals

### Options

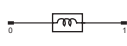
- Blank: No option  
K+: Test button

### Options

- Blank: Class F (standard)  
B: Class B (special order, consult factory)

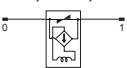
DC Coil Data (at 23°C)

Table 1

Coil code	Nominal voltage (VDC)	Coil resistance $\Omega \pm 10\%$	Power consumption approx.	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max. allowable voltage (VDC)
1006	6	18.9	1.9W 	4.5	0.9	6.6
1012	12	75		9	1.8	13.2
1024	24	303		18	3.6	26.4
1048	48	1220		36	7.2	52.8
1100	100	5260		75	15.0	110

AC Coil Data (at 23°C)

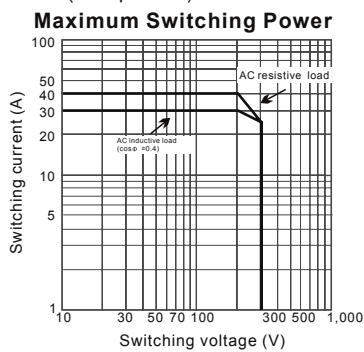
Table 2

Coil code	Nominal voltage (VAC)	Rated coil current (mA) +15/-20%	Power consumption approx.	Must operate voltage max. (VAC)	Must release voltage min. (VAC)	Max. allowable voltage (VAC)
5012	12	142	1.7 to 2,5VA (60Hz) 	9	0.9	13.2
5024	24	71		18	1.8	26.4
5050	50	34		37.5	3.6	55
5120	100 to 120	17 to 20.4		75	18.0	132
5230	200 to 240	8.5 to 10.2		150	36.0	264

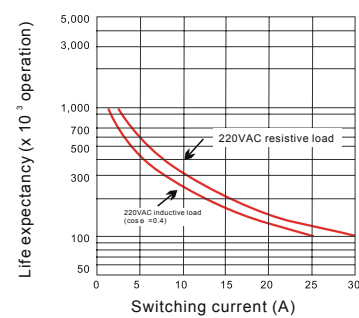
Reference Curves

Fig. 1

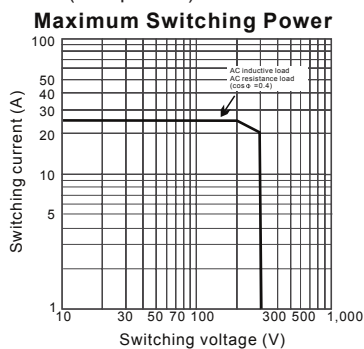
DLR SPST-NO (except PCB)



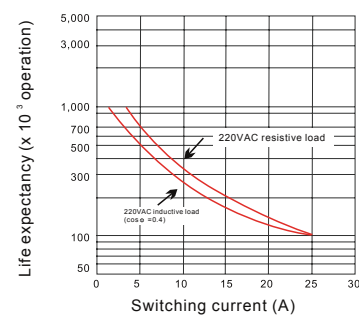
**Life Expectancy**



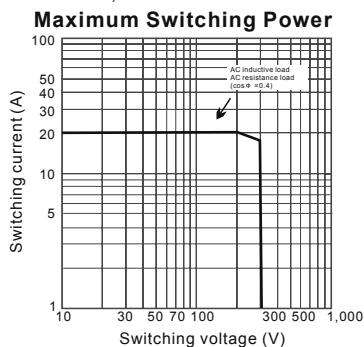
DLR DPST-NO (except PCB)



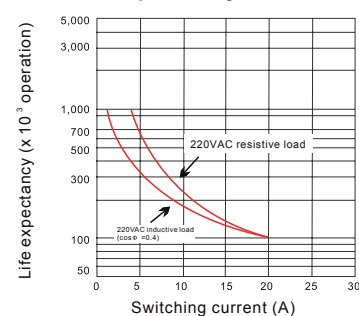
**Life Expectancy**



DLR PCB SPST-NO, DPST-NO



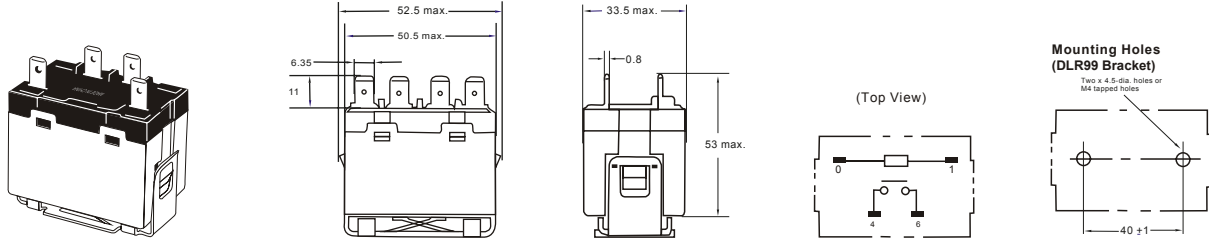
**Life Expectancy**



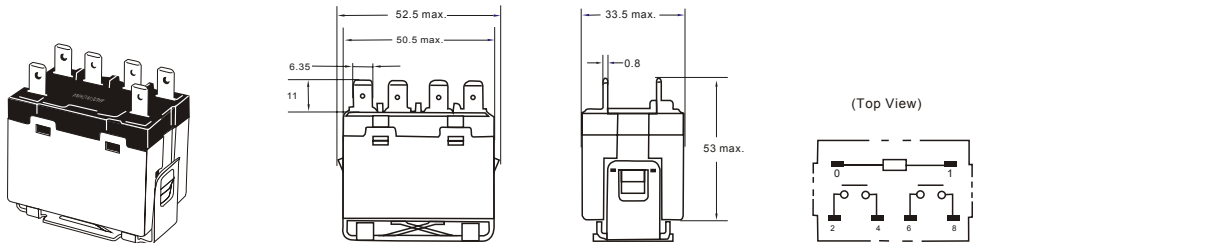
## Overall Dimensions and Wiring Diagrams mm

Fig. 2

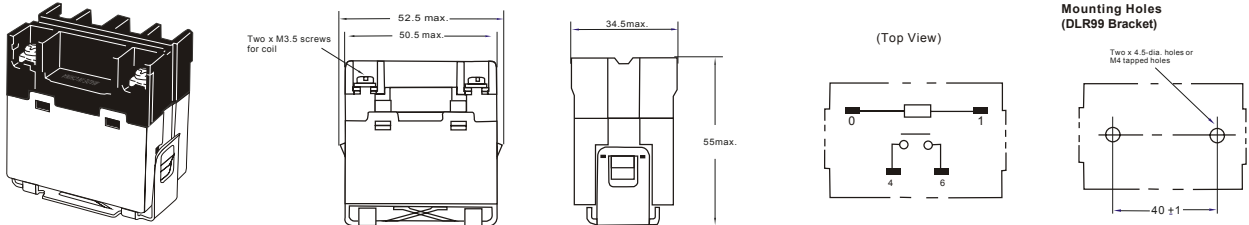
DLR30-2126 / DLR30-2126-K  
(shown with DLR99 mounting bracket)



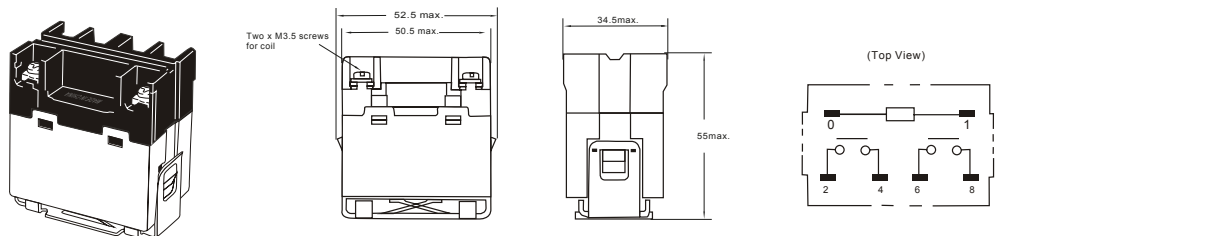
DLR30-2226 / DLR30-2226-K  
(shown with DLR99 mounting bracket)



DLR30-2128 / DLR30-2128-K  
(shown with DLR99 mounting bracket)



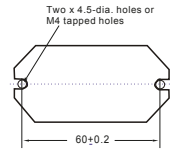
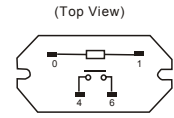
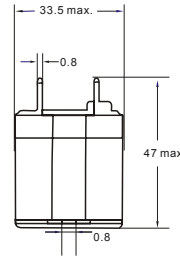
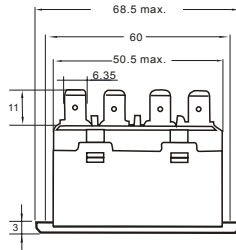
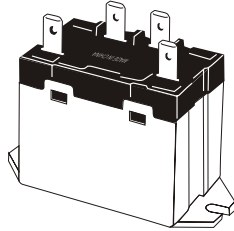
DLR30-2228 / DLR30-2228-K  
(shown with DLR99 mounting bracket)



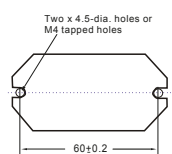
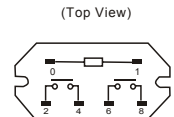
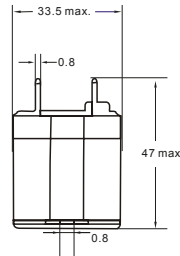
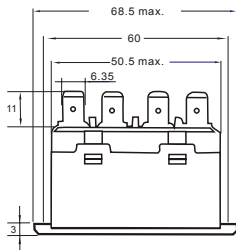
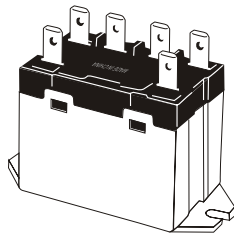
## Overall Dimensions and Wiring Diagrams mm

Fig. 2 continued

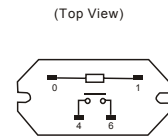
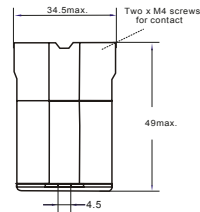
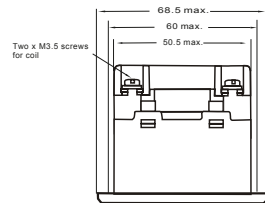
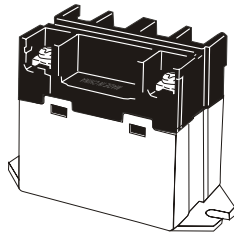
DLR30-2146 / DLR30-2146-K



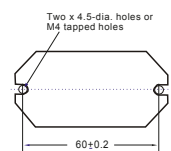
DLR30-2246 / DLR30-2246-K



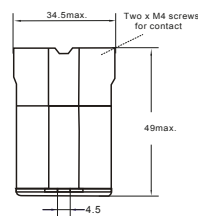
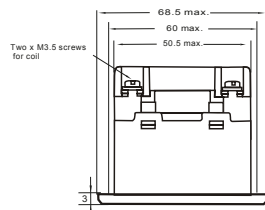
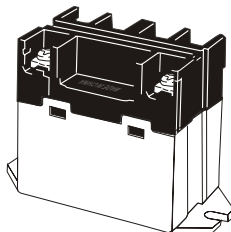
DLR30-2148 / DLR30-2148-K



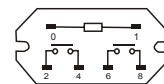
Mounting Holes



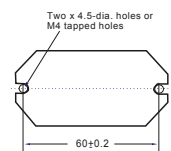
DLR30-2248 / DLR30-2248-K



(Top View)



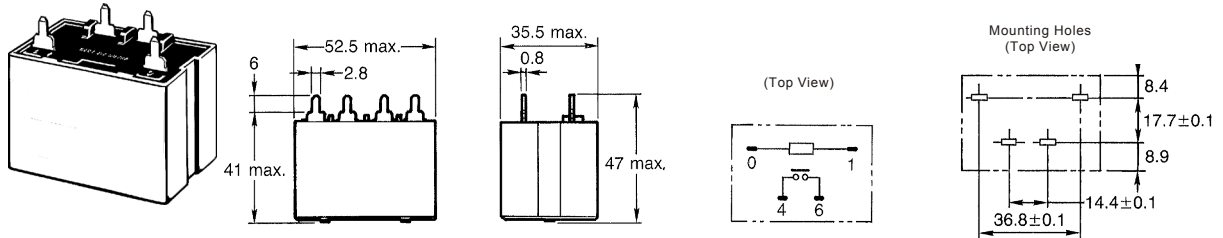
Mounting Holes



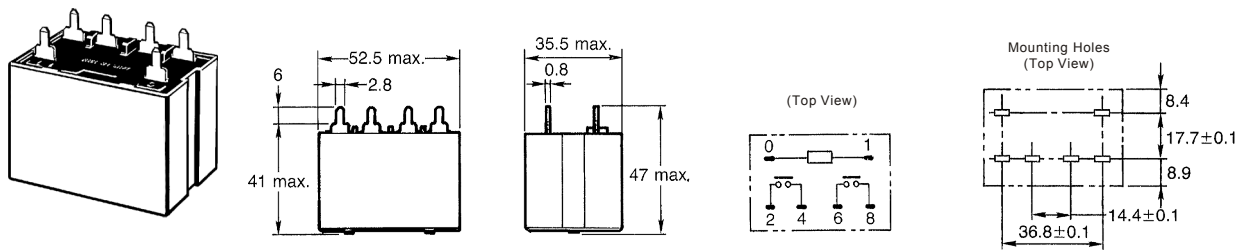
## Overall Dimensions and Wiring Diagrams mm

Fig. 2 continued

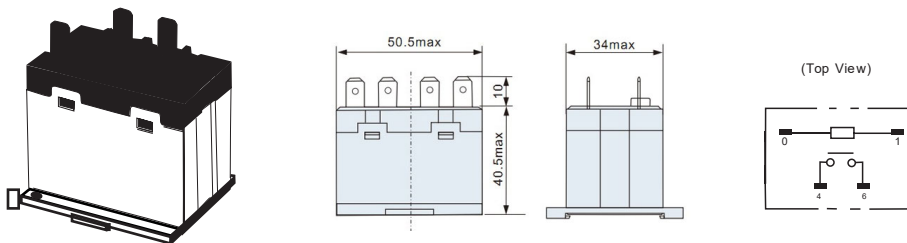
DLR30-2125  
(for PCB mounting)



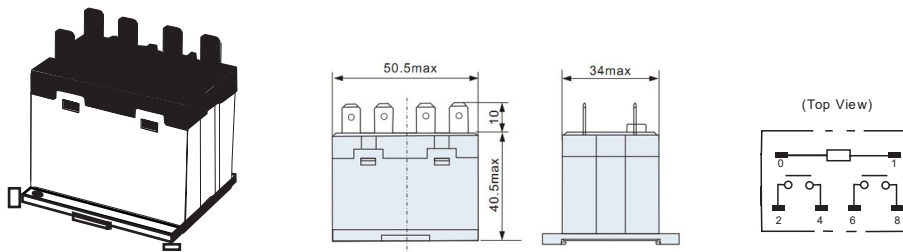
DLR30-2225  
(for PCB mounting)



DLR30-2196  
(for DIN rail mounting)



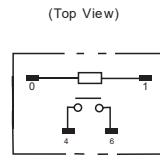
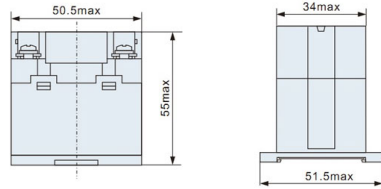
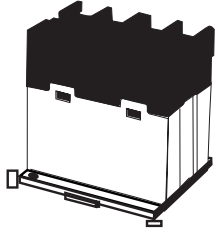
DLR30-2296  
(for DIN rail mounting)



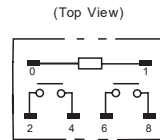
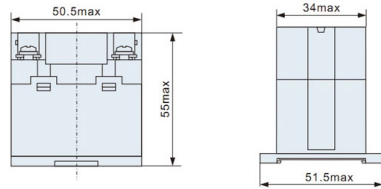
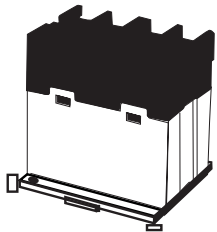
## Overall Dimensions and Wiring Diagrams mm

Fig. 2 continued

DLR30-2198 / DLR30-2198-K  
(for DIN rail mounting)



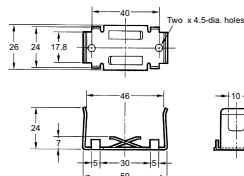
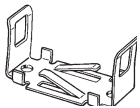
DLR30-2298 / DLR30-2298-K  
(for DIN rail mounting)



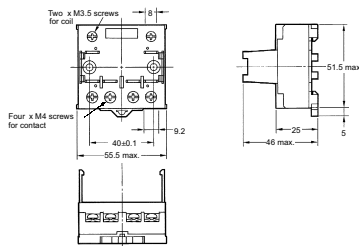
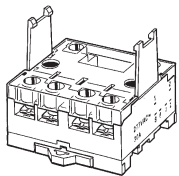
## Accessories / Overall Dimensions mm

Fig. 3

DLR99 Mounting Bracket



DLR7LF-06 DIN Rail Socket



DLR7LF-C Finger protection cover

