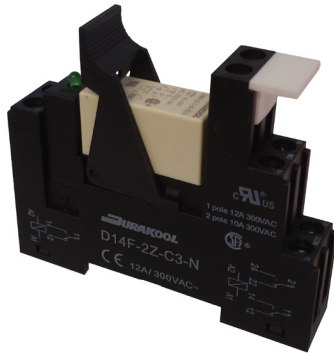


D18 series

interface relays

DURAKOOL



- miniature DIN rail power relay
- up to 16A /230V AC rating
- industry standard style
- cost effective
- RoHS Compliant



Contacts

Contact number & arrangement	SPDT (1 C/O), DPDT (2 C/O)	
Contact material	AgNi 90/10	
Max. switching voltage	AC/DC	440VAC / 125VDC
Min. switching current / voltage	5mA / 5VDC	
Rated load	AC1	SPDT: 10A, 250VAC (Sensitive Coil) / 12A, 250VAC / 16A, 250VAC : DPDT: 8A, 250VAC
	DC1	SPDT: 10A, 30VDC (Sensitive Coil) / 12A, 30VDC / 16A, 24VDC : DPDT: 8A, 250VAC
Max. inrush current	30A	
Initial resistance	100mΩ, max. at 0.1A/6VDC	

Coil

Rated voltage	DC	12, 24V
	AC	24, 110, 230V
Must release voltage	DC	≥ 0.1Un
	AC	≥ 0.15Un
Operating range of supply voltage	See coil tables 1 and 2	
Rated power consumption	DC	250mW (10A, Sensitive Coil) / 400mW (standard)
	AC	0.75VA

Insulation

Insulation resistance	≤ 1000MΩ at 500VDC, 50%RH	
Dielectric strength	coil to contact	5000Vrms, 1min
	contact to contact	1000Vrms, 1min

General Data

Operating time (typical)	mS	≤ 7ms
Release time (typical)	mS	≤ 3ms
Electrical Life	ops	≥ 0.7 x 10 ⁵ (16A), ≥ 1.0 x 10 ⁵ (10A, 12A)
Mechanical life	ops	≥ 3 x 10 ⁷
Dimensions	L x W x H	75.8 x 15.7 x 67 mm (depends on socket and clip choice)
Weight	approx 62g with module	
Ambient temperature	storage	-40 to 85°C
	operating	-40 to 85°C (DC coil) / -40 to 70°C (AC coil)
Shock resistance	30g	
Vibration resistance	10g 10...150Hz	

DI8 series interface relays



Coil Data (standard coil)					Table 1
Coil Voltage Code	Nominal Voltage	Coil Resistance (Ω) $\pm 10\%$	Operate voltage max.	Must operate voltage max.	Must release voltage min.
D012	12VDC	360	18.0VDC	8.4VDC	1.2VDC
D024	24VDC	1440	36.0VDC	16.8VDC	2.4VDC
A024	24VAC	400	28.8VAC	19.2VAC	3.6VAC
A110	110VAC	8900	132.0VAC	88.0VAC	16.5VAC
A230	230VAC	38500	276.0VAC	184.0VAC	34.5VAC

Coil Data (12VDC sensitive coil)					Table 2
Coil Voltage Code	Nominal Voltage	Coil Resistance (Ω) $\pm 10\%$	Operate voltage max.	Must operate voltage max.	Must release voltage min.
S012	12VDC	576	15.6VDC	9.00VDC	1.2VDC

Coil specifications at 20°C. AC coils are suitable for 50Hz or 60Hz operation

Operating relays below or above the nominal voltage may prove detrimental to performance.

Ordering codes				Table 2												
Relay & Socket Code		Module Code		Coil Code	Socket style											
D	I	8	7	-	4	1	G	-	A	0	2	4	-	C	3	N
Contact Style				see Tables 1 & 2												
4	-	DPCO 8A														
5	-	SPCO 16A														
7	-	SPCO 10A & 12A														
Module type																
000	-	No Module fitted														
21P	-	Diode A2+														
21N	-	Diode A1+														
41G	-	LED (Green) 6-24VDC														
41R	-	LED (Red) 6-24VDC														
61G	-	LED (Green) 6-24VAC/DC														
61R	-	LED (Red) 6-24VAC/DC														
63G	-	LED (Green) 110 - 230VAC/DC														
63R	-	LED (Red) 110-230VAC/DC														
Socket type																
C2	-	SPDT: D14-1Z-C2 (standard), or DPDT: D14F-2Z-C2 (standard)														
C3N	-	SPDT: D14F-1Z-C3-N (standard), or DPDT: D14F-2Z-C3-N (standard)														
C4	-	SPDT: D14F-1Z-C4 (special order*), or DPDT: D14F-2Z-C4 (special order*)														
C5	-	SPDT: D14F-1Z-C5 (special order*), or DPDT: D14F-2Z-C5 (special order*)														
* Minimum Order Quantities (MOQ's) may apply.																

DI8 series interface relays



Interface Relay construction						Table 3	
Relay type	Socket type (refer to Ordering Codes for full number)	Ejector Clip	Module				
DI84	DM84 series	+	D14F-2Z-???	+	JH-15PS	+	DM???-BK
DI85	DM85 series	+	D14F-2Z-???*	+		+	DM???-BK
DI87	DM87N	+	D14F-1Z-???	+		+	DM???-BK
DI87	DX87N (Sensitive coil)	+	D14F-1Z-???	+		+	DM???-BK

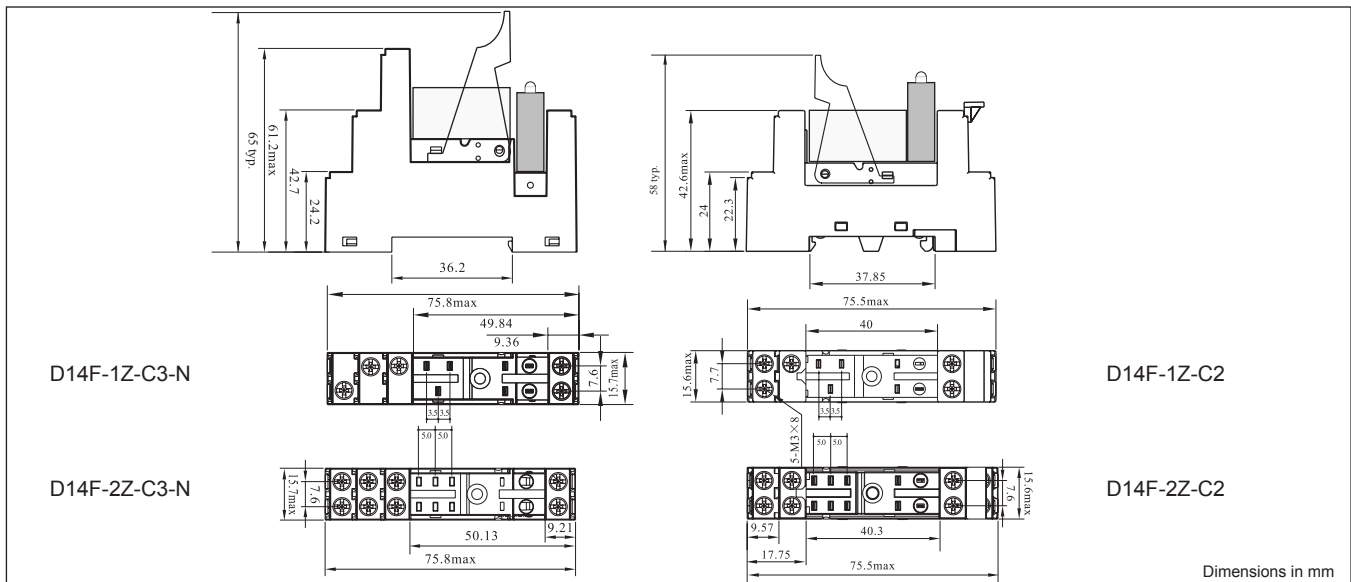
* For loads above 12A , terminals must be bridged in pairs, 11 with 21, 12 with 22, 14 with 24 - see Connection diagrams (Fig. 2)

All sockets are supplied with a blank, white, description plate/tab.

??? See Ordering Codes (Table 2, Page 2) for details.

Overall Dimensions

Fig. 1



Connection diagrams

Fig. 2

