



## COIL CHARACTERISTICS

Rated Voltage V	DC			AC		
	Rated Current mA	Resistance R Ω	Rated Current mA	Resistance R Ω	Reactance X Ω	Impedance Z Ω
6	150	40	250	10	21.8	24
12	75	160	125	38	88.2	96
24	38	640	63	150	350	381
48	18	2600	31	680	1390	1548
60	15	4000	-	-	-	-
110	8.1	13600	14	3100	7220	7857
230	-	-	6.5	13200	32830	35385

Power supply voltages:

6-12-24-48-110-230 VAC  
6-12-24-48-60-110 VDC

Rated power:

0.9W (DC) ; 1.5 VA (AC)

Operating range:

- 20% to + 10% of nominal

Minimum hold voltage:

80% of nominal (AC)

Must release voltage:

20% of nominal (AC)

10% of nominal (DC)

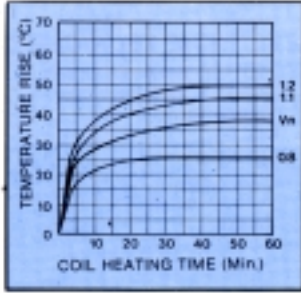
Thermic insulation class of winding

(IEC 317): F (155°C)

Resistance values at 20°C ambient temp.

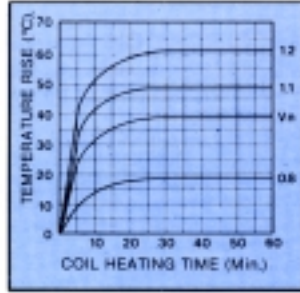
Tolerance on R, X and Z: ± 10%

TEMPERATURE RISE VERSUS DC OPERATING VOLTAGE



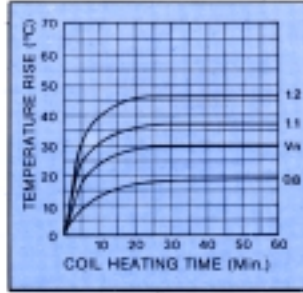
Vn = rated voltage

TEMPERATURE RISE VERSUS AC OPERATING VOLTAGE (50 Hz)



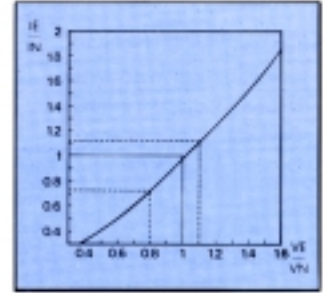
Vn = rated voltage

TEMPERATURE RISE VERSUS AC OPERATING VOLTAGE (60 Hz)



Vn = rated voltage

VARIATIONS OF POWER CONSUMPTION VERSUS AC OPERATING VOLTAGE (50-60 Hz)



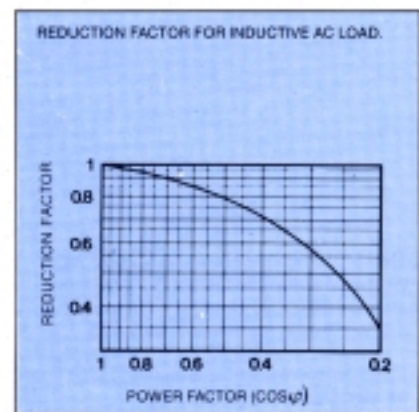
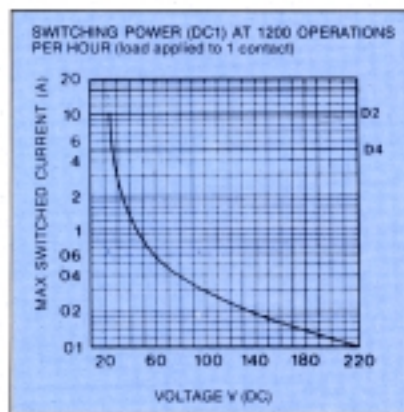
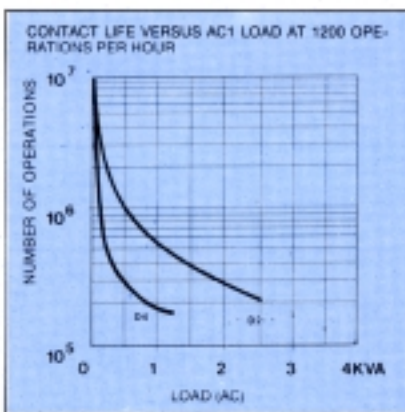
IC = Operating current  
IN = Rated current  
Vn = Operating voltage  
VN = rated voltage

## CONTACT CHARACTERISTICS

	2 pole	4 pole	
Maximum power rating (AC1) :	2500	1250	VA
Rated current :	10	5	A
Rated voltage :	250	250	VAC
Maximum switched voltage :	400	250	VAC
Maximum instantaneous current <sup>(1)</sup> :	20	10	A
Switching power (DC1) :	see diagram		
Maximum single-phase motor load (cosφ 0.7 – 250VAC max.) :	1/3	1/10	HP
Initial contact resistance <sup>(2)</sup> : maximum	30	50	mΩ
Standard	10	15	mΩ
Standard material	Ag90% - CdO10%	Ag90% - Ni10%	

<sup>(1)</sup> Make & maintaining only - max. 0.5 sec.

<sup>(2)</sup> Category of application (EN 60255) : 3



## ORDERING INFORMATION

**D4N - 230 AC - IL - 5**

1 2 3 4 5 6

- 1 – Relay Series: D
- 2 – Number of poles: 2 or 4
- 3 – Termination variant:  
N = solder lugs / plug-in  
P = printed circuit
- 4 – Coil supply voltage: AC or DC
- 5 – Optional equipment: IL (LED indicator);  
DP (protection diode); DL (LED + diode);  
VM (grounding bolt).

- 6 – Alternative contact materials:  
None = standard material  
1 = Silver / Nickel (Ag-Ni 10%)  
2 = Silver / Cadmium (Ag-CdO 15%)  
4 = Silver / Tin Oxide (Ag-SnO<sub>2</sub> 12%)  
5 = Gold plated silver (Ag-Ni + 5μ Au)  
Groups 5 & 6 of code are normally omitted,  
concerning special types available only on  
request for agreed quantities.