



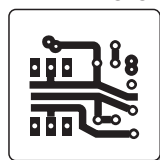
Features include:

- Miniature P.C.B. Faston 250 mount relay
- DC coil
- 8 mm between coil and contacts in accordance with VDE 0700
- Sealed, with removable pip to avoid ozone accumulation when relay is operating
- NO contact version (supplied as standard)
- Approvals (according to type): CSA, cUL, IMQ, SEMKO, SEV, VDE

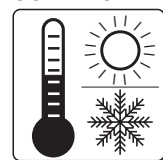
WHITE
GOODS



ELECTRONIC
APPLIANCES



AIR
CONDITIONING





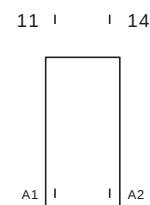
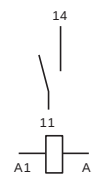
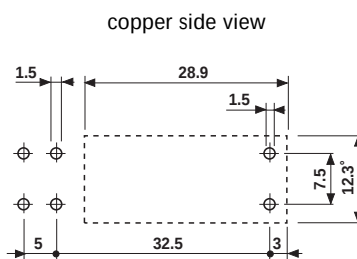
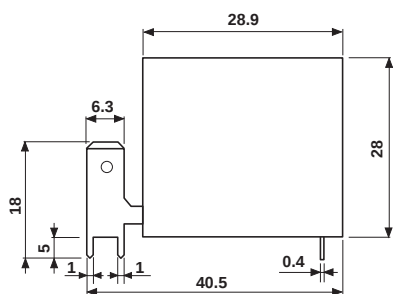
45.61



MINIATURE P.C.B. FASTON 250 POWER RELAY 16 A

TYPE 45.61 1 NO (SPST-NO) 5 mm pinning

- Tin plated connections for P.C.B.
- Standard contact material: AgNi + AgCdO
- Ordering information: see page 42



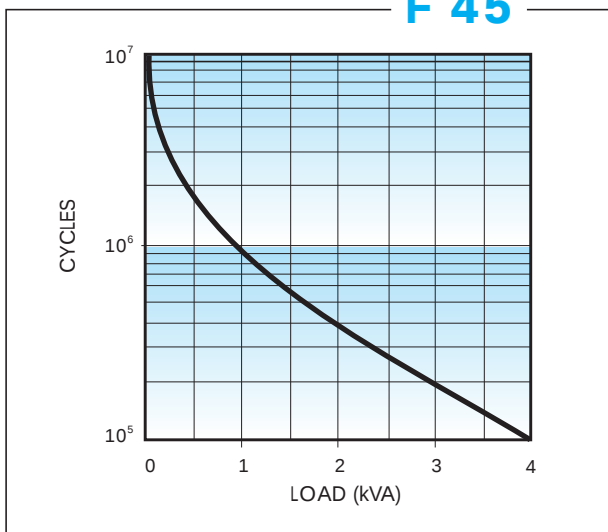
TECHNICAL DATA

DIELECTRIC STRENGTH	tested at leakage current	between coil and contacts	4,000 V
	≤ 10 mA for 1 min at 50 Hz	between open contacts	1,000 V
SURGE TEST (1.2/50 μs) VOLTAGE BETWEEN COIL AND CONTACTS		6,000 V	
ISOLATION RESISTANCE		≥ 20 · 10 ³ MΩ	
ISOLATION GROUP		C 250	
ISOLATION DISTANCES		≥ 8 mm between coil and contacts according to VDE 0700	
MAXIMUM SWITCHING FREQUENCY			
- without load		36,000 cycles/h	
- at rated load		600 cycles/h	
AMBIENT TEMPERATURE		(−40 ... +125)°C	
MECHANICAL LIFE		20 · 10 ⁶ cycles	
PROTECTION CATEGORY OF ENCLOSURES		IP 67	
OPERATE AND RELEASE TIME:			
- pick-up time (from 0 to U _N)		≤ 10 ms (including contact bounce)	
TYPE OF DUTY		continuous	
DIELECTRIC TEST			
TYPE OF RELAY		all-or-nothing	

CONTACT SPECIFICATIONS

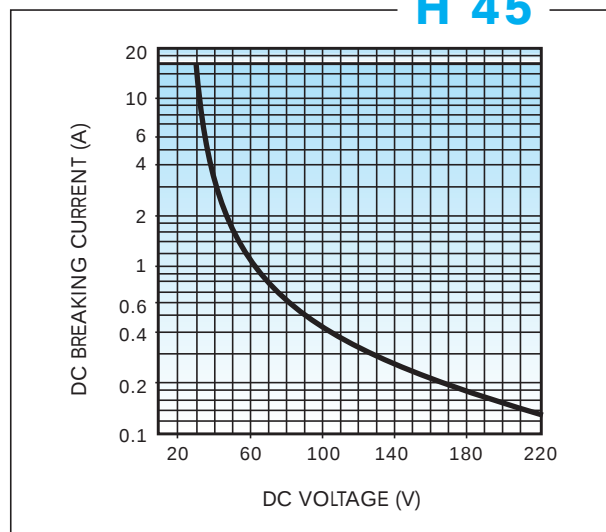
RATED CURRENT	16 A
MAXIMUM PEAK CURRENT	30 A
NOMINAL RATE IN AC1	4,000 VA
NOMINAL RATE IN AC15	750 VA
RATED VOLTAGE	250 V AC
MAXIMUM SWITCHING VOLTAGE	400 V AC
BREAKING CAPACITY IN DC1	see diagram H 45
SINGLE PHASE HP MOTOR RATING	0.55 kW / 0.8 HP
CONTACT RESISTANCE: - initial	$\leq 50 \text{ m}\Omega$
ELECTRICAL LIFE	$100 \cdot 10^3 \text{ cycles, (+85}^\circ\text{C)}$ $5 \cdot 10^4 \text{ cycles, (+125}^\circ\text{C)}$
MINIMUM SWITCHING LOAD	500 mW (10 V/5 mA)
STANDARD CONTACT MATERIAL	AgNi + AgCdO

F 45



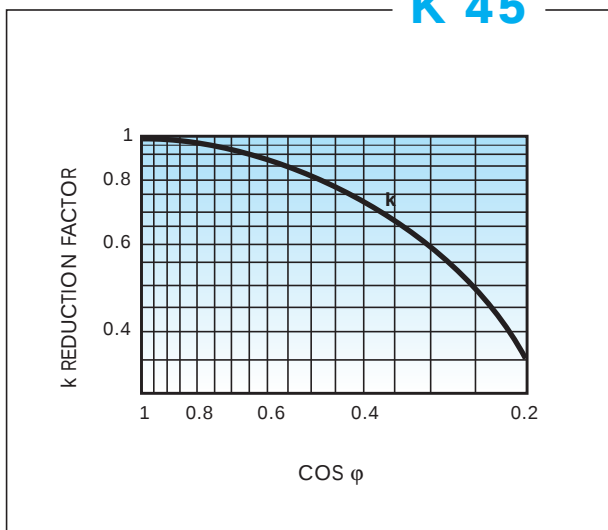
Contact life AC1 load at 900 cycles/h (+85°C).

H 45



Breaking capacity for DC1 load at 600 cycles/h.

K 45



Load reduction factor vs $\cos \phi$.

COIL SPECIFICATION

VERSIONS:

DC - direct current

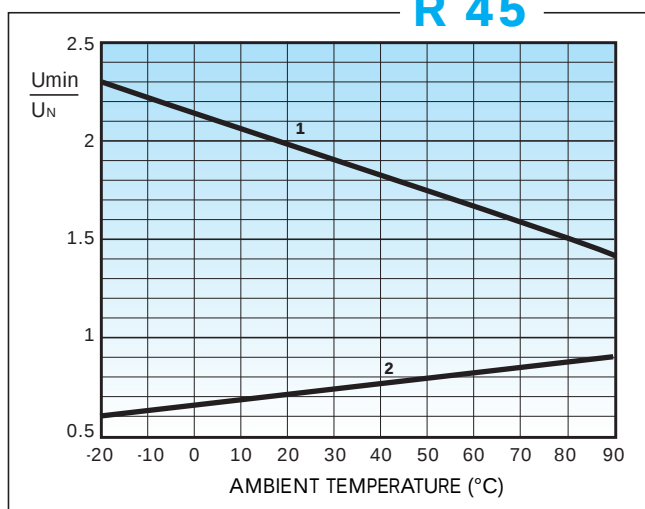
RATED POWER	0.65 W
MINIMUM POWER	0.35 W
OPERATING RANGE	(0.73 ... 1.5) U_N
HOLDING VOLTAGE	$\leq 0.4 U_N$
MUST DROP-OUT VOLTAGE	$\geq 0.1 U_N$
NOMINAL MAGNETOMOTIVE FORCE	180 A
THERMAL INSULATION CLASS OF WIRE	F (+155°C)
THERMAL RESISTANCE	52°C/W
CONDUCTED DISTURBANCE IMMUNITY	BURST (acc. to EN 61000 - 4 - 4) level 4 (4 kV) SURGE (acc. to EN 61000 - 4 - 5) level 3 (2 kV)

DC VERSION DATA

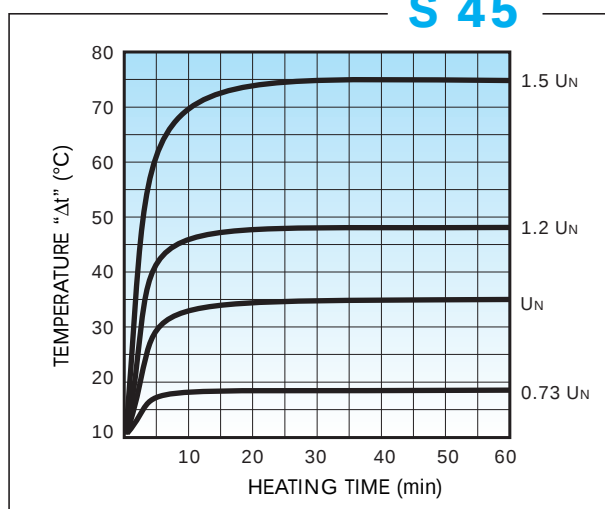
R values relate to +20°C. Tolerance of R and I values: $\pm 10\%$.

Nominal voltage U_N	Operating range		Resistance R	Nominal coil absorption I
V	U_{min} V	U_{max} V	Ω	mA
6	4.4	9	55	109
12	8.8	18	220	55
24	17.5	36	900	27
48	35	72	3,500	14
60	43.8	90	5,500	11
110	80.3	165	18,000	6.1

R 45



S 45



ORDERING INFORMATION

Example: 45 series for P.C.B. + Faston 250, 1 NO (SPST-NO) contact, coil rated 12 V DC.

4 5	6	1	9	0 1 2	0	0	0	0
Series	Type	No. of poles	Coil version	Coil rated voltage				
	6 = P.C.B. + Faston 250	1 = 1 NO (SPST-NO)	9 = DC	006 = 6 V 012 = 12 V 024 = 24 V 048 = 48 V 060 = 60 V 110 = 110 V				