

R4-A4...

14-pin plug-in relay, 4-pole, change-over contacts

Type: R4-A4xx/...V

Relays for Railway application, 4 change-over contacts

Maximum contact load	6 A / 250 V AC-1, 0.5 A / 110 V DC-1 6 A / 30 V DC-1, 0.2 A / 220 V DC-1
Recommended minimum contact load	10 mA / 10 V Code 4 5 mA / 5 V Code 8

Contacts

Material	Optional	Code 4	AgNi + 0,2 μ Au
	Optional	Code 8	AgNi + 10 μ Au
Rated current			6 A
Inrush current max. (20 ms)			18 A
Switching voltage AC-1 max.			250 V
AC load max.			see Fig. 1
DC load max.			see Fig. 2

Coil (Values are valid at 20 °C)

Coil resistance	see table; tolerance ± 10 %
Operating voltage range	0.7 ... 1.25 U _N
Nominal power	1.4 W

Coil Table

V DC	Ω	mA
24	426	56
36	881	41
48	1500	32
72	3456	21
110	8231	13

Insulation

Pulse (1.2 / 50 us / Dielectric strength (V rms, 1 minute)	
Contact / coil	4 kV / 2.5 kV
Contact / contact	4 kV / 2.5 kV
Contact open	1.5 kV / 1 kV

Specifications

Ambient temperature operation / storage	-25 (no ice) ... +55 °C / -40 ... +80 °C
Pick-up time / bounce time	15 ms / ≤ 2 ms
Release time / bounce time	20 ms / ≤ 2 ms
Mechanical life	> 20 millions
Ingress protection rating	IP40
Weight	90 g

Standard types

DC: 24, 36, 48, 72, 110 V

LED

Free wheeling diode

Polarity and free wheeling diode

R4-A44/DC...V

R4-A44X/DC...V

R4-A44DX/DC...V

R4-A44FX/DC...V

R4-A48/DC...V

R4-A48X/DC...V

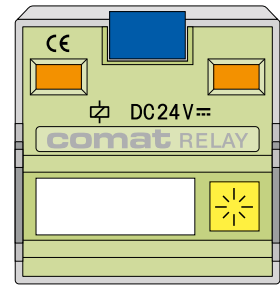
R4-A48DX/DC...V

R4-A48FX/DC...V

"..." Enter the voltage for full type designation

Accessories

Socket:	CS-144
Optional accessories (blanking plug):	SO-NP, SO-OP



Connection diagram

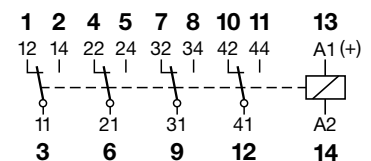


Fig. 1 AC voltage endurance

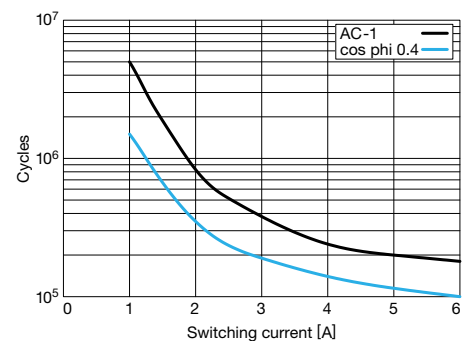
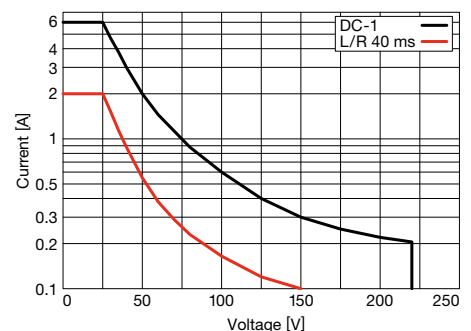
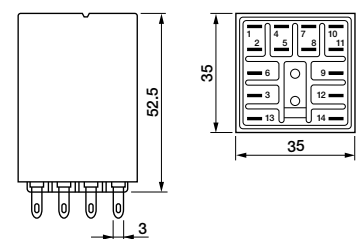


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

See table on page 53.