

R7-A2x

8-pin, **miniature standard relay**, 2-pole, plug-in

Relay approval: EN 60077-1-2/99 - EN 61373/99 **for Railway application**

Type		R7-A2x/DC ... V	
		Railway application	
		Sensitive, 2 change-over contacts	
Maximum contact load:		10 A/250 V AC1	10A/30V DC1
Recommended minimum contact load		10 mA/10 V Code 0, 4	
		5 mA/5 V Code 8	
Contacts			
Material	Standard	Code 0	AgNi
	Optional	Code 4	AgNi + 0,2µ Au
	Optional	Code 8	AgNi + 10µ Au
Rated current		10 A	
Switch-on current max. (20 ms)		30 A	
Switching voltage max.		250 V	
AC load		see fig. 1	
DC load		see fig. 2	

Coil

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	0,7 U _N ... 1,25 U _N
Release voltage	≥ 0,1 x U _N
Nominal power	1,07 W

Coil table

Voltage	Ω ± 10%	mA
24	535	45
48	2004	24
72	4750	15
110	11337	10

Insulation	Volt rms, 1 min
Pollution grade	PD3
Pulse (1,2 /50µs) Dielectric strenght (1Minute/V rms)	
Contact/coil	4KV / 2200V
Between different poles	4KV / 2200V
Between contact and the same pole	1550 / 850V

Specifications

Ambient temperature operation/storage	-25 (no ice)....70 °C /-40 ... 80 °C
Number of mechanical operations	>20millions
Thermic class	B (130° C)
Vibration : category / class	1 / B Body mounted
Vibration	5-150Hz (3 axes)
Shock	5g (3 axes)
Operation (UN) / release time	10 ms/ 15 ms
Weight	35 g
Weight avg. Relay + Socket (S7-M)	75g
Protection class	IP40

Standard types

VDC 24, 48, 72, 110	R7-A20/DC ... V	R7-A24/DC ... V	R7-A28/DC ... V
LED	R7-A20X/DC ... V	R7-A24X/DC ... V	R7-A28X/DC ... V
Free wheeling diode	R7-A20D/DC ... V	R7-A24D/DC ... V	R7-A28D/DC ... V
LED + free wheeling diode	R7-A20DX/DC ... V	R7-A24DX/DC ... V	R7-A28DX/DC ... V

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

Accessories

Socket: **S7-M, S7-I/O, S7-L, S7-P, S7-P0**



Connection diagram

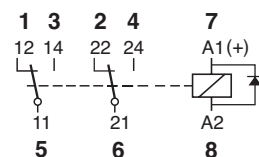


Fig. 1 AC voltage endurance

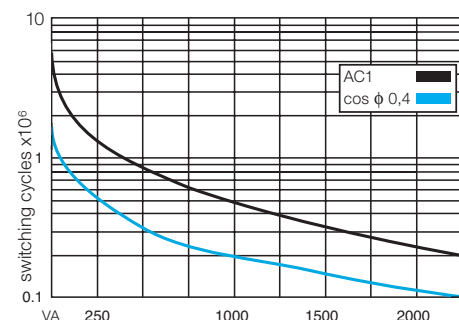
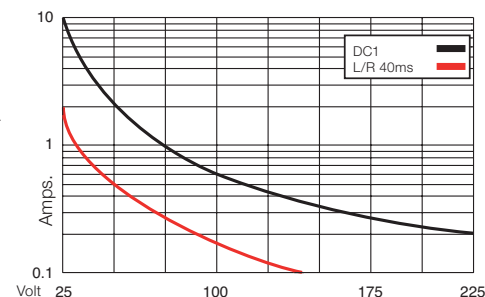
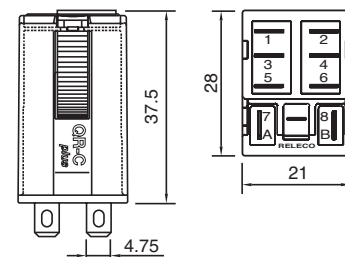


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



EN 60077-1-2/99; EN 61373/99