Short Form Catalog MR-C Relays QR-C Relays TIME CUBE®



DESIGN & FUNCTION

IN PERFECT HARMONY





GENERAL INFORMATION

Electrical and Mechanical Life

Designed to withstand 100.000 operations at full rated load and more than 20 x 10^6 mechanical operations (measured at 6.000 operations/hour). Periodical Laboratory life tests give values higher than 100×10^6 operations.

The maximum switching frequency is 1.200 operations/hour at max. rated load and 6.000 operations/hour at 50% of max. load.

Materials and Temperatures

All parts are made of high perfomance, self extinguishing materials for electrical equipment which can withstand temperatures up to 130°C without deformation.

Operating and storage temperatures are respectively –20 to +60°C and –20 to +100°C

Coil

The temperature rise in the coil when permanently energized, at nominal voltage, is 45°C max. at AC and 35°C max. at DC.

All coils are calculated to withstand a permanent connection at maximum ambient temperature of 60°C and 1.10 x nominal voltage.

Coil inrush power (AC relays only) is approx.

1.80 x nominal power.

Standard Voltages

AC 24, 48, 115 (110-120), 230 V DC 12, 24, 48, 110, 120-125, 220 V All other voltages available upon request.

Protection Class

IP40 for relays and Time Cubes.

Socket Terminal Block

Suitable for cables on diameters from 2.25 $\,mm^2$ down to 0.14 $\,mm^2.$

Approvals (according to model)

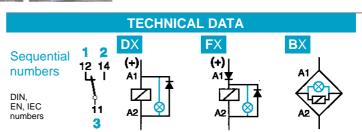
UL (USA), CSA (Canada), SEV (Switzerland), NEMKO (Norway), SETI (Finland), SEMKO (Sweden), DEMKO (Denmark), ÖVE (Austria), LLOYD'S (UK).
Comply with EN 60 947/4 & 5 (IEC 947)
All approval values available upon request.

Mounting

Universal mounting: DIN-46277 rail and panel.

Standard Packing

10-pieces recyclable cardboard box.



Contacts Max. switching cap. (poll. 3 - industrial)

Coil Nominal power AC / DC

Coil operating voltage

Operating times Max. Pull-in / Drop-out

Other executions

Magnetic latching

Sensitive

Bifurcated contacts for low level signal

I NE

Open Gap (>1.5 mm) contacts

NEW

Double make contact

NEW

Double make contact with magnetic blow out

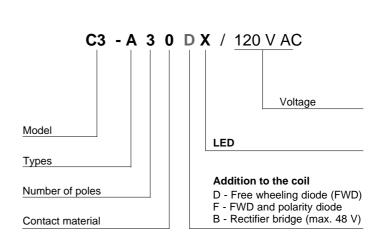
NEW

Sockets

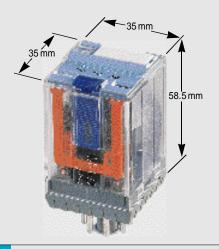
for DIN rail

for panel -L / for PCB -P / for PCB with flange -PO

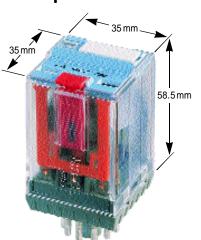
PART NUMBER KEY



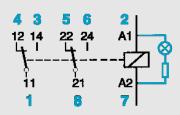
Standard 8-pin C2-A20 X /...v



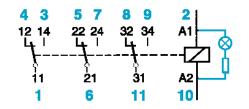
Standard 11-pin C3-A30 X /...v



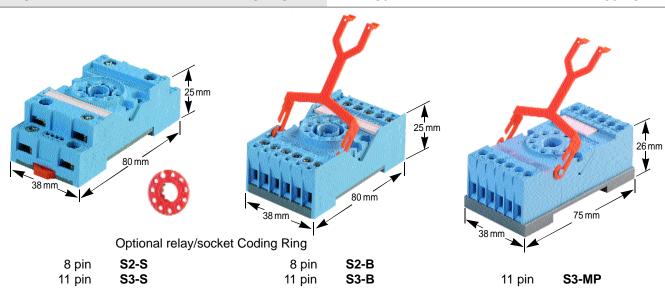
C2-A20 X



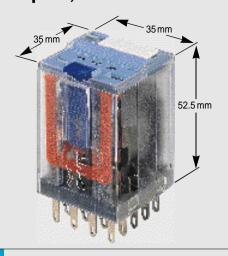
C3-A30 X



10 A / 250 V AC	C1	2500 VA	10 A / 2	50 V AC1	2500 VA	
2.2 VA	1.3	W	2,3	2 VA 1	1,3 W	
0.80 x U _N	1.1 x	(U _N	0,80) x U _N 1,	1 x U _N	
16 ms	8 n	ns	16	S ms	8 ms	
Model			Model			
			C3-R20	ON 2,5 VA/W	OFF 0,5 VA/W	
			C3-S (250 mW	/) / C3-E (500 mW)	/ C3-N (800 mW)	
C2-T21 X	10 mA@ 5V	6 A/250 V AC1	C3-T31 X	10 mA @ 5V	6 A / 250 V AC1	
C2-G20 X	110 W / 1 A @	110 V DC1	C3-G30 X	110 W / 1 A @	110 V DC1	
			C3-X10 X	6 A @ 110 V / 1	,2 A @ 220 V DC1	
			C3-M10 X	10 A DC1 / 2 A	DC13 @ 220 V	
S2-S	S2-B		S3-S	S3-B	S3-MP	
S2-L	_	S2-PO	S3-L	_	S3-PO	

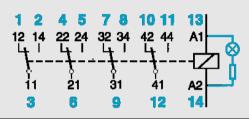


Plug-in 4-pole, 10A C4-A40 X /... v

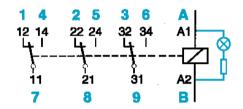


Flat blade, 16A C5-A30 X /...v

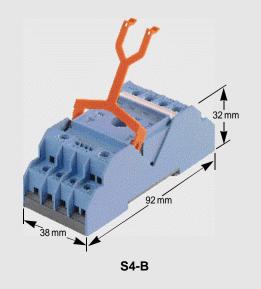
C4-A40 X

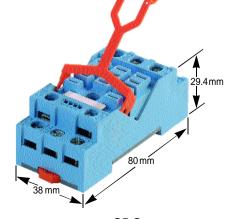


C5-A30 X



10 A / 250 V AC1	2000 VA	16 A / 500 V AC1		3600 VA
2.4 VA 1	.4 W	2.4	VA 1.4	1 W
0.80 x U _N 1.	1 x U _N	0.80	x U _N 1.1	x U _N
20 ms 8	3 ms	20	ms 10	ms
Model		Model		
C4-R30 ON 2.5 VA/W	OFF 0.5 VA/W	C5-R20	ON 2.5 VA/W (OFF 0.5 VA/W
		C5-G <u>3</u> 0 X	110 W / 1 A @ ·	110 V DC1
		C5-X10 X	6 A @ 110 V / 1	.2 A @ 220 V DC1
		C5-M10 X	10 A DC1 / 2 A	DC13 @ 220 V
– S4-B	-	S5-S		
S4-L S4-P	S4-PO	S5-L	S5-P	S5-PO

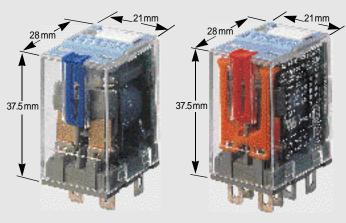


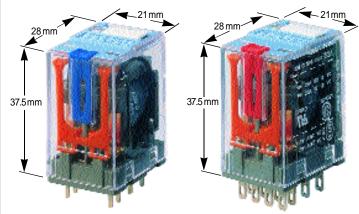


Miniature 2-pole, 10A C7-A20 X /...v

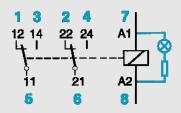
Miniature 4-pole

C9-A41 X /...v





C7-A20 X



C9-A41 X						
C3-A41 A		_				
	1	5	2 6	3 7	4 8	13
	12	14	22 24	32 34	42 44	A1 -
	Ц	.	ابها	ایها	ايها	⊗ ہیلے
	1	 	#	╁	#	↓↓
		ï	1	Υ 24	Ý.	ل امم
		11	21	31	41	A2
		9	10	- 11	12	141

16 ms 8 ms 16 ms 8 ms Model Model	
16 ms 8 ms 16 ms 8 ms	
$0.80 \times U_{N}$ $1.1 \times U_{N}$ $0.80 \times U_{N}$ $1.1 \times U_{N}$	
1.5 VA 1 W 1.5 VA 1 W	
10 A / 250 V AC1 2500 VA 3 A / 250 V AC1 250 V (Poll 2)	700 VA

 C9-R21
 ON 1.5 VA /W
 OFF 0.3 VA /W

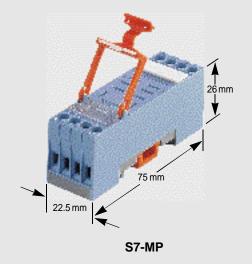
 C9-E21
 0.8 VA
 600 mW

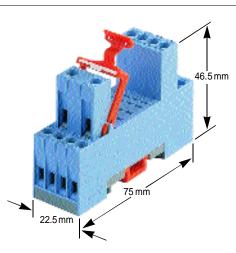
C7-T21 X 10 mA @ 5 V... 6 A / 250 V AC1

 $\textbf{C7-G20 X} \ (0.8 \ A \ @ \ 110 \ V \ DC1) \ \textbf{C7-G10 X} \ (16 \ A/\ 250 \ V \ AC1)$

C7-X10 X 6 A @ 110 V / 1 A @ 220 V DC1

S7-MP			S9-M		
S7-L	S7-P	S7-PO	S9-L	S9-P	S9-PO





S9-M

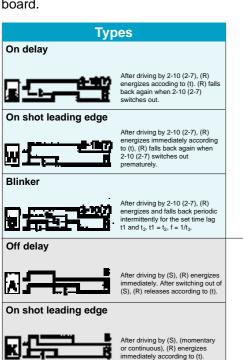
Time Cube CT2 (8 pin) and CT3 (11 pin)

The Time Link

Releco's Timer module, the Time Cube, connects any brand of 8 and 11-pin relay and socket, transforming standard relays into timer relays.

Installation could not be easier. Remove the relay, insert the Time Cube in the socket and replace the relay. Easy as 1-2-3.

The Time Cube adds only 25 mm to the overall height of the relay. Just enough height to spot the relay, with special timer function, into your board.





Operating voltage ranges

H: 90 to 265 Vac/dc

L: 20 to 65 Vac/dc (75 Vdc)

S: 9.5 to 18 Vdc

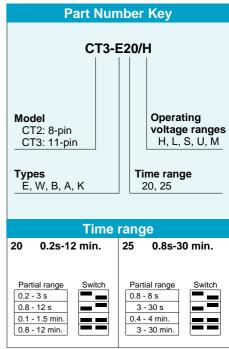
U: 180 to 265 Vac/dc **M**: 90 to 150 Vac/dc **L**: 20 to 65 Vac/dc (75 Vdc)

S: 9.5 to 18 Vdc

24.5 mm

50 mm

(37 mm including pins)





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