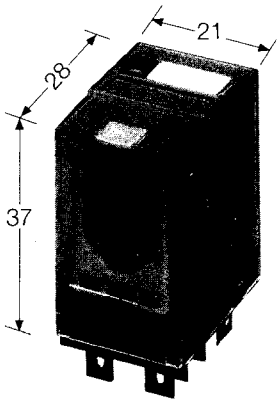


QR-C

Miniature Power Relay, plug-in mounting, 2 pole

Series C7-..



Type	C7-A20/24VAC RS 376-408 C7-A20X/24VAC	C7-A20/115VAC RS 376-414 C7-A20X/115VAC	C7-A20/230VAC RS 376-420 C7-A20X/230VAC	C7-A21/... C7-A21X/...
Nominal voltage	24 VAC	115* VAC	230* VAC	see page 4
Contact	AgCdO10 DPDT	AgCdO10 DPDT	AgCdO10 DPDT	AgNi10 + 0.2 μ Au DPDT
Wiring diagram				
	<p style="text-align: center;">Bottom view</p>			
Function	standard	standard	standard	standard
LED/Neon Indicator	- ✓	- ✓	- ✓	- ✓
Free Wheeling Diode	- -	- -	- -	- -
Polarity- and Free Wheeling Diode	- -	- -	- -	- -
Coil				
Coil operating voltage [M]	0.8 ... 1.1 U _N	0.8 ... 1.1 U _N	0.8 ... 1.1 U _N	0.8 ... 1.1 U _N
Nominal power consumption [VA/W]	1.5	1.5	1.5	1.5
Nominal current [mA]	63 68	13 18	6 7	see page 4, table 1
Pull-in voltage [V]	19.2	96	192	0.80 x U _N
Drop-out voltage [V]	8.4	42	84	0.35 x U _N
Coil resistance (± 10 % tolerance) [Ω]	160	3500	13800	see page 4, table 1
Contacts				
Max. switching current (resistive) [A]	10	10	10	6
Peak inrush current (resist. 10ms) [A]	30	30	30	18
Max. switching voltage [VAC]	250	250	250	250
Max. switching load AC per contact at 50Hz [VA]	2200	2200	2200	1500
Max. switching load DC per contact at 24V [W]	240	240	240	180

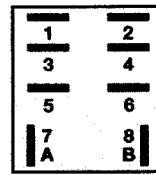
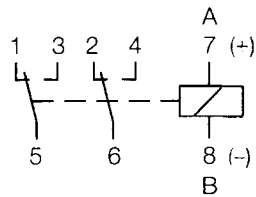
General data	
Operate time	≤ 10 msec
Release time (without Free Wheeling Diode)	≤ 6 msec
Bounce time	2...5 msec
Contact pressure (NO/NC)	25 g / 20 g
Contact gap	0.45 mm
Insulation class in accordance with VDE 0110	Group C250
Test voltage 50 Hz 1 min	2500 V _{rms}
Insulation resistance	1500 MΩ
Maximum switching with 100 % load	1200 ops/h
Maximum switching with 50 % load	2000 ops/h
Minimum mechanical life	≥ 100 x 10 ⁶ ops
Ambient temperature	-20...+60°C
Dimensions	21 x 28 x 37 mm
Protection class (DIN 40 050)	IP40
Weight, avg.	34 g

*Eurostandard: 115VAC = 110...120 VAC; 230VAC = 220...240VAC

Contact materials	Code
AgCdO10	Standard 0
AgNi10 + 0.2μ Au	1
AgCdO10 + 10μ Au	8
AgCdO10 + 0.2μ Au	9

Approvals
CSA listing requested
UL recognition requested
SEV approval requested

C7-A20/12VDC C7-A20DX/12VDC RS 376-385 C7-A20X/12VDC	C7-A20/24VDC C7-A20DX/24VDC RS376-391 C7-A20X/24VDC	C7-A20/48VDC C7-A20DX/48VDC	C7-A20X/48VDC C7-A20/110VDC C7-A20DX/110VDC	C7-A20X/110VDC C7-A21/... C7-A21DX/... C7-A21FX/... C7-A21X/...	
12 VDC	24 VDC	48 VDC	110 VDC	see page 4	
AgCdO10	AgCdO10	AgCdO10	AgCdO10	AgNi10+ 0.2 μ Au	
DPDT	DPDT	DPDT	DPDT	DPDT	

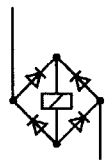


Bottom view

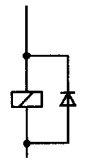
standard	standard	standard	standard	standard
- ✓ ✓	- ✓ ✓ ✓	- ✓ ✓	- ✓ ✓	- ✓ ✓ ✓
- ✓ -	- ✓ - -	- ✓ -	- ✓ -	- ✓ - -
- - -	- - ✓ -	- - -	- - -	- - ✓ -
0.75...1.1 U _N	0.75...1.1 U _N	0.75...1.1 U _N	0.75...1.1 U _N	0.75...1.1 U _N
0.9	0.9	0.9	0.9	0.9
75 80 80	37 42 42 42	19 24 24	8 9 9	see page 4, table 1
9	18	36	94	0.75 x U _N
1.2	2.4	4.8	12.5	0.10 x U _N
160	640	2560	13440	see page 4, table 1
10	10	10	10	6
30	30	30	30	18
250	250	250	250	250
2200	2200	2200	2200	1500
240	240	240	240	180

Coil features

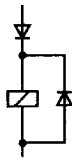
Coil type **B**



Code **D**

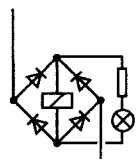


Code **F**

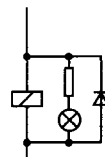


Coils with LED/Neon Indicator

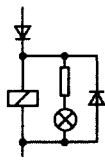
Coil type **B...X**



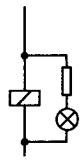
Code **DX**



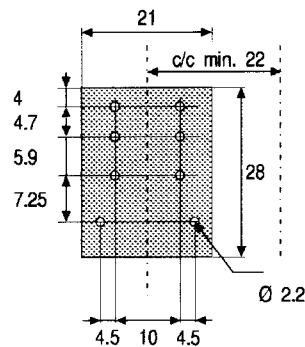
Code **FX**



Code **X**



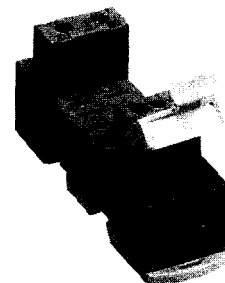
PCB mounting, direct soldering



All dimensions in mm

Socket

Recommended type:



S7-B

Further information, see page 10...11