



## Quattro Relay 114A4

- Standard type  
- With LED and protection diode on request



## Order Code

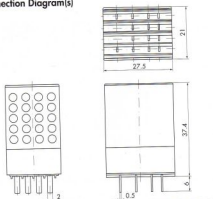
Order Code	Quattro Relay	114	A	4		-	24 V	DC	N
Type of relay	Quattro Relay	114							
Model									
A Plug-in type			A						
Contact arrangement									
2 C/O (on request)				2					
4 C/O				4					
Contact material									
- AgNi (no code letter)					-				
B AgNi gold-plated					B				
Nominal operation coil voltage (see coil data)									
24 V							24 V		
Coil current type									
DC Direct current								DC	
AC Alternating current (50 / 60 Hz)								AC	
Versions									
N with position indicator with manual override without override lever									N
I with position indicator with manual override with override lever									I

## Contact Data

		114 A4	
Contact arrangement	4 C/O		
Type of contact	Single contact		
Contact material	AgNi		AgNi gold-plated
Nominal contact current	10 A		
Inrush current	≤ 20 A		
Nominal contact voltage	110 VDC / 250 VAC		
Max. switching capacity (relative)	1.44 W / 2000 VA		
Min. switching capacity	10 mA / 5 V		1 mA / 100 mV



Dimensions, Connection Diagram(s)



Viewed on terminals  
114 A4



Viewed on terminals  
114 A2 (on request)

Relay with protection diode	
Standard 114 ... F1	+ to A1 (13) - to A2 (14)
Special 114 ... F	- to A1 (13) + to A2 (14)

General Data

		114 A4	
Full-in-time		approx. 10 ms	
Drop-out time		approx. 10 ms	
Bounce time		approx. 5 ms	
Mechanical service life		> 20 x 10 <sup>6</sup> switching cycles	
Test voltage		2500 VAC	
Coil - contact		2000 VAC	
(C/O) - (C/O)		1000 VAC	
Contact - contact		1000 VAC	
Insulation group VDE 0110b/2.79		8250	
Insulation coordination to DIN EN 61810.5/ VDE 0435 Part 140		250 V	
Operating voltage		III	
Overtoltage category		3	
Pollution degree		-40 °C to +60 °C	
Ambient temperature		> 2 g N/C > 10 g N/O	
Vibration resistance (30 - 100 Hz)		approx. 33 g	
Weight			
Operating range		DC Class 1 (0.8 - 1.1 U <sub>N</sub> )	AC Class 2 (0.85 - 1.1 U <sub>N</sub> )
Pull-in			
after coil excitation with U <sub>N</sub> nominal current at T <sub>1</sub>		60 °C	20 °C
Drop-out		> 0.05 U <sub>N</sub>	> 0.15 U <sub>N</sub>



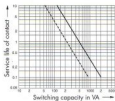
## Coil Data

Coil voltage DC			114AA Pull-in power approx. 0.42 W Nom. operation power approx. 1 W			Coil voltage AC		114AA Nom. operation power approx. 1.2/0.98 VA Inrush current approx. 1.5 x nominal current	
Nominal voltage (V)	Nominal resistance (Ω)	Nominal current (mA)	Nominal voltage (V)	Nominal resistance (Ω)	Nominal current 50 Hz (mA)	Nominal current 60 Hz (mA)			
12	143	84	12	46.5	100	81			
24	576	42	24	177	50	41			
48	2250	21	48	762	25	20			
110	12100	9	115	4570	10	8.5			
			120	4570	11	8.8			
			230	19040	5.2	4.2			

## Electrical Service Life

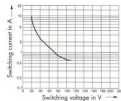
## Electrical Service Life AC

- 90 % operating  
 ——— resistive load  
 - - - - - conductive load  
 cos φ = 0.4 ... 0.7



## Switching Capability DC

- Below limiting characteristic: service life of contacts  
 $2 \times 10^4$  switching cycles (90 % operating)  
 resistive load



## Quattro Relay Standard Types in Stock

available from stock in packs of 10 pcs each

DC		AC
114 A4-12VDC1	114 A4B-24VDC1	114 A4-12VAC1
114 A4-12VDC1L	114 A4B-24VDCN	114 A4-24VAC1
114 A4-12VDCN		114 A4-24VAC1L
114 A4-24VDC1		114 A4-24VACN
114 A4-24VDC1F1		114 A4-48VAC1
114 A4-24VDC1FL		114 A4-115VAC1
114 A4-24VDC1FL1		114 A4-115VAC1L
114 A4-24VDC1L		114 A4-115VACN
114 A4-24VDCN		114 A4-120VAC1
114 A4-24VDCNF		114 A4-120VAC1L
114 A4-24VDCNFL		114 A4-230VAC1
114 A4-24VDCNFL1		114 A4-230VAC1L
114 A4-48VDC1		114 A4-230VACN
114 A4-48VDC1L		114 A4-230VACN-L
114 A4-48VDCN		
114 A4-110VDC1		
114 A4-110VDCN		