Zelio Time - timing relays Industrial relays, solid state output

width 22.5 mm

Presentation



The RE9 range of relays is designed for simple, repetitive applications with short and intensive cycles because their solid state output provides very high electrical durability.

Each relay has a single timing range.

Each relay has a wide voltage range from 24 to 240 V. The range comprises 9 references with 3 model types:

- RE9-TA : function A, - RE9-RA: function C,

- RE9-MS: multifunction A, H, L, Li.

These products have a transparent, hinged flap on their front face to avoid any accidental alteration of the settings. This flap can be directly sealed.

Environment					
Livioninon					
Conforming to standards			IEC 61812-1, EN 61812-1		
Approvals			CSA, GL pending, UL		
Cemarking			Zelio Time timing relays conform to European regulations relating to C€ marking		
Ambient air temperature	Storage	°C	- 40+ 85		
around the device	Operation	°C	- 20+ 60		
Permissible relative humidity range	Conforming to IEC 60721-3-3		1585 % Environmental class 3K3		
Vibration resistance	Conforming to IEC 6068-2-6, 10 to 55 Hz		a = 0.35 ms		
Shock resistance	Conforming to IEC 6068-2-27		15 gn - 11 ms		
Degree of protection	Casing		IP 50		
	Terminals		IP 20		
Degree of pollution	Conforming to IEC 60664-1		3		
Overvoltage category	Conforming to IEC 60664-1		III		
Rated insulation voltage	Conforming to IEC	v	250		
	Conforming to CSA	٧	300		
Test voltage for insulation tests	Dielectric test	kV	2.5		
	Shock wave	kV	4.8		
Voltage limits	Power supply circuit		0.851.1 Uc		
Frequency limits	Power supply circuit	Hz	50/60 ± 5 %		
Disconnection value	Power supply circuit		> 0.1 Uc		
Mounting position without derating	In relation to normal vertical mounting plane		Any position		
Connection Maximum c.s.a.	Flexible cable without cable end	mm ²	2 x 2.5		
	Flexible cable with cable end	mm ²	2 x 1.5		
Tightening torque		N.m	0.61.1		
Immunity to electromagne	etic interference (EMC) (Application	n class 2	conforming to EN 61812-1)		
Electrostatic discharge	Conforming to IEC 61000-2-6		Level 3 (6 kV contact, 8 kV air)		
Electromagnetic fields	Conforming to IEC 61000-4-3		Level 3 (10 V/m)		
Fast transients	Conforming to IEC 61000-4-4		Level 3 (2 kV)		
Shock waves	Conforming to IEC 61000-4-5		Level 3 (2 kV)		
Radiated and conducted	CISPR11		Group 1 class A		
emissions	CISPR22		Class A		

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General characteristics (continued)

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Timing relay type			RE9-TA On-delay	RE9-RA Off-delay	RE9-MS Multifunction			
Supply characteristics								
Supply voltage		v	≂ 24240	∼ 24240	≂ 24240. See page 28467/2			
Voltage limits	Power supply circuit		0.851.1 Un					
Frequency		Hz	5060 ± 5 %					
Control contact	Mechanical only		In series Between Y2 and A2		In series			
Max. length of connecting cable	From contact to RE9	m	-	20	-			
Control input consumption	Input Y2	mA	_	5	_			
Timing characteristics								
Setting accuracy			< ± 20 %					
Repeat accuracy			< 1 %					
Minimum reset time	After the time delay period	ms	100					
Minimum switching time time		ms	_	40	_			
Maximum immunity to microbreaks	During the time delay period	ms	100	2	70			
	After the time delay period	ms	2	_	2			
Temperature drift			≤ 0.1 % per degree centigrade					
Switching characteristics (solid state type)								
Maximum continuous current	At ambient temperature: 20 °C	Α	0.7 (minimum 10 mA)					
Maximum overload current	VDE 0435 part. 303, 4.8.3/Class II	Α	15 for 10 ms					
Maximum voltage drop	Closed state	v	A 0.7 A : 3					
Leakage current	Open state	mA	≤ 6	≤1	≤ 6			
Maximum dissipated power		w	2.5	4	2.5			
Derating	For temperature > 20 °C	mA	Without					
Electrical durability	In millions of operating cycles		> 100					

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