3RP, 3RT19 Timing Relays

3RP15 timing relays in industrial enclosure, 22.5 mm

Tochi	ادماد	specifications	
recni	nıcaı	Specifications	

Туре		3RP15 05 3RP15 31 3RP15 32 3RP15 33	3RP15 13	3RP15 40	3RP15 60	3RP15 74 3RP15 76	3RP15 27	
Rated insulation voltage Degree of pollution 3 Overvoltage category III	V AC	300; 500 fo	r 3RP15 05-	1BT10				
Operating range at excitation ¹⁾			x <i>U</i> s at AC. 5 times rated	0.8 1.25 x	Us at DC;			
Rated power Power consumption at 230 V AC, 50 Hz	W VA	2	s timos ratoc	2 ²⁾	6		1	
Rated operational current I _e • AC-140, DC-13	A	_					0.01 0.6	
 AC-15 at 24 400 V, 50 Hz DC-13 at 	А	3 ³⁾						
- 24 V - 125 V - 250 V	A A A	1 0.2 0.1					 	
Uninterrupted thermal current I_{th}	А	5						
DIAZED protection ⁴⁾ gL/gG operational class	А	4						
 Switching frequency When loaded with I_e 230 V AC When loaded with 3RT10 16 contactor, 230 V AC 	1/h 1/h	2500 5000					5000	
Recovery time	ms	150			300	150	50	
Minimum ON period	ms	35 ⁵⁾		200 ⁶⁾				
Residual current with non-conducting output	mA						5	
Voltage drop with conducting output	VA						3.5	
Short-time loading capacity	А						10 (up to 10 ms)	
Setting accuracy with reference to scale value		Typical ±5	%				10 1113)	
Repeat accuracy		≤±1 %						
Mechanical endurance Operating cycles			30 x 10 ⁶					
Permissible ambient temperature During operation During storage	°C °C	-25 +60 -40 +85						
Degree of protection acc. to EN 60529			IP40 cover, IP20 terminals					
Connection type			Screw terminals M 3 (standard screwdriver, size 2 and Pozidriv 2)					
 Terminal screw Solid Finely stranded with end sleeve AWG cables, solid or stranded Tightening torque 		1 x (0.5	4) / 2 x (0.5 . 2.5) / 2 x (0.5	2.5)	nd Pozidriv 2	2)		
Connection type			Spring-loaded terminals					
 Solid Finely stranded, with end sleeves acc. to DIN 46228 Finely stranded AWG cables, solid or stranded 	mm ² mm ² mm ² AWG	2 x (0.25 2 x (0.25 2 x (0.25 2 x (24 1	. 1.5) . 1.5)					
Permissible		Any						
Shock resistance acc. to IEC 60068 for half-sine shock type	g/ ms	15/11						
Vibration resistance acc. to IEC 60068-2-6		10 55 Hz	z: 0.35 mm					
Electromagnetic compatibility (EMC) Tests acc. to basic specification		EN 61000-6	6-2/EN 6100	0-6-4				

¹⁾ If nothing else is stated.

²⁾ Maximum inrush current 1A/100 ms.

³⁾ For 3RP15 05-.R: NC contact -> $I_{\rm e}$ = 1 A.

⁴⁾ $I_k \ge 1$ kA weld-free according to IEC 60947-5-1.

⁵⁾ Minimum ON period with 3RP15 05-.BW30, 150 ms, until instantaneous contact has switched.

⁶⁾ For correct operation, observe minimum ON period.