3RP, 3RT19 Timing Relays

3RP20 timing relays, 45 mm

Technical specifications

Туре		3RP20 05 3RP20 25
Rated insulation voltage Degree of pollution 3 Overvoltage category III	V AC	300
Operating range at excitation ¹⁾		0.85 1.1 x <i>U</i> s at AC. 0.8 1.25 x <i>U</i> s at DC; 0.95 1.05 times rated frequency
Rated power Power consumption at 230 V AC, 50 Hz	W VA	1 4
Rated operational current I _e • AC-15, at 24 400 V, 50 Hz • DC-13 at	A	3
- 24 V - 125 V - 250 V	A A A	1 0.2 0.1
Uninterrupted thermal current I _{th}	А	5
DIAZED protection ²⁾ 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
Recovery time	ms	150
Minimum ON period	ms	35
Setting accuracy with reference to scale value		Typical ±5 %
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
 Terminal screw Solid Finely stranded with end sleeve AWG cables, solid or stranded Tightening torque 	mm ² mm ² AWG Nm	M 3 (standard screwdriver, size 2 and Pozidriv 2) 1 × (0.5 4) / 2 × (0.5 2.5) 1 × (0.5 2.5) / 2 × (0.5 1.5) 2 × (20 14) 0.8 1.2
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 × (0.25 1.5) 2 × (0.25 1.5) 2 × (0.25 1.5) 2 × (24 16)
Permissible mounting positions		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: 0.35 mm
Electromagnetic compatibility (EMC) Tests acc. to basic specification		EN 61000-6-2/EN 61000-6-4

¹⁾ If nothing else is stated.

²⁾ $I_{\rm k} \ge$ 1 kA, weld-free according to IEC 60947-5-1.

If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in the range specified. If identical cross-sections are used, this restriction does not apply.