

# 3RP Timing Relays

## 3RP15 timing relays in industrial enclosure, 22.5 mm

### Technical specifications

Type		3RP15 05 3RP15 31 3RP15 32 3RP15 33	3RP15 11 3RP15 12 3RP15 13 3RP15 25 3RP15 55	3RP15 40	3RP15 60	3RP15 74 3RP15 76	3RP15 27
<b>Rated insulation voltage</b> Degree of pollution 3 Overvoltage category III	V AC	300; 500 for 3RP15 05-1BT10					
<b>Operating range at excitation<sup>1)</sup></b>		0.85 ... 1.1 x U <sub>g</sub> with AC; 0.8 to 1.25 x U <sub>g</sub> with DC; 0.95 ... 1.05 times rated frequency					
<b>Rated power</b> Power consumption at 230 V AC, 50 Hz	W VA	2 6		2 <sup>2)</sup>	6		1 1
<b>Rated operational current I<sub>e</sub></b> • AC-140, DC-13 • AC-15 at 24 ... 400 V, 50 Hz • DC-13 at - 24 V - 125 V - 250 V	A	-- 3 <sup>3)</sup> 1 0.2 0.1					0.01 ... 0.6 -- -- -- --
<b>Uninterrupted thermal current I<sub>th</sub></b>	A	5					
<b>DIAZED fuse<sup>4)</sup></b> gL/gG operational class	A	4					
<b>Switching frequency</b> • When loaded with I <sub>e</sub> 230 V AC • When loaded with 3RT10 16 contactor, 230 V AC	1/h 1/h	2500 5000					
<b>Recovery time</b>	ms	150			300	150	50
<b>Minimum ON period</b>	ms	35 <sup>5)</sup>	--	200 <sup>6)</sup>	--		
<b>Residual current</b> with non-conducting output	mA	--					
<b>Voltage drop</b> with conducting output	VA	--					
<b>Short-time loading capacity</b>	A	--					
<b>Setting accuracy</b> with reference to scale value		Typical ± 5					
<b>Repeat accuracy</b>		≤ ± 1 %					
<b>Mechanical endurance</b> Operating cycles		30 x 10 <sup>6</sup>					
<b>Permissible ambient temperature</b>	During operation During storage	°C °C	-25 ... +60 -40 ... +85				100 x 10 <sup>6</sup>
<b>Degree of protection</b> according to EN 60529		IP40 cover, IP20 terminals					
<b>Conductor cross-sections</b> • Screw terminals (to connect 1 or 2 conductors); for standard screwdriver (size 2 and Pozidriv 2) • Spring-loaded terminals (to connect 1 or 2 conductors; for 22.5 mm timing relay use screwdriver with 3 mm blade or 8WA2 807 opening tool)	Solid Finely stranded with end sleeve AWG conductors, solid or stranded Terminal screw Tightening torque Solid Finely stranded • With end sleeve • Without end sleeve AWG conductors, solid or stranded	mm <sup>2</sup> mm <sup>2</sup> AWG Nm mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> AWG	1 x (0.5 ... 4) 2 x (0.5 ... 2.5) 1 x (0.5 ... 2.5) 2 x (0.5 ... 1.5) 2 x (20 ... 14) M 3.5 0.8 ... 1.2 2 x (0.25 ... 1.5) 2 x (0.25 ... 1) 2 x (0.25 ... 1.5) 2 x (24 ... 16)				
<b>Mounting position (permissible)</b>		Any					
<b>Shock resistance</b> according to IEC 60068 for half-sine shock type	g/ms	15/11					
<b>Vibration resistance</b> according to IEC 60068-2-6	Hz/mm	10 ... 55/0.35					
<b>Electromagnetic compatibility (EMC)</b> Tests according to basic specification		EN 61000-6-2/EN 61000-6-4					

1) If nothing else is stated.

2) Maximum inrush current 1A/100 ms.

3) For 3RP15 05-.R: NC contact -> I<sub>e</sub> = 1 A.

4) I<sub>k</sub> ≥ 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.