## **3RP Timing Relays**

## 3RP20 timing relays, 45 mm

## Technical specifications

Туре			3RP20 05 3RP20 25
Rated insulation voltage Degree of pollution 3		V AC	300
Overvoltage category III			
Operating range at excitation <sup>1)</sup>			0.85 1.1 x $U_{\rm s}$ with AC; 0.8 to 1.25 x $U_{\rm s}$ with DC; 0.95 1.05 times rated frequency
		W VA	1 4
Rated operational current I <sub>e</sub> • AC-15, at 24 400 V, 50 Hz		А	3
• DC-13 at			
- 24 V - 125 V		A A	1 0.2
- 250 V		A	0.1
Uninterrupted thermal current I <sub>th</sub> A		А	5
DIAZED fuse <sup>2)</sup>		А	4
gL/gG operational class			
Switching frequency • When loaded with I <sub>e</sub> 230 V AC		1/h	2500
When loaded with 3RT10 16 contactor, 230 V AC		1/h	5000
		ms	150
		ms	35 Turning    5.9(
Setting accuracy with reference to scale value			Typical ± 5 %
Repeat accuracy			≤±1 %
Mechanical endurance Operating cycles			30 x 10 <sup>6</sup>
Permissible ambient temperature	During operation During storage	°C °C	-25 +60 -40 +85
Degree of protection according to EN 60529			IP40 cover, IP20 terminals
Conductor cross-sections			2)
<ul> <li>Screw terminals (to connect 1 or 2 conductors); for standard</li> </ul>	Solid	mm <sup>2</sup>	$2 \times (0.5 \dots 1.5)^{3)}$ $2 \times (0.75 \dots 2.5)^{3)}$
screwdriver (size 2 and Pozidriv 2)	Finely stranded with end sleeve	mm <sup>2</sup>	$2 \times (0.73 \dots 2.5)^{3}$
			2 x (0.75 2.5) <sup>3)</sup>
	AWG conductors, solid or stranded Terminal screw	AWG	2 x (18 14) M3
	Tightening torque	Nm	0.8 1.2
• Spring-loaded terminals (to connect		mm <sup>2</sup>	2 x (0.25 2.5)
1 or 2 conductors; for 22.5 mm timing relay use screwdriver with	<ul><li>Finely stranded</li><li>With end sleeve</li></ul>	mm <sup>2</sup>	2 x (0.25 1.5)
3 mm blade or 8WA2 807 opening	<ul> <li>Without end sleeve</li> </ul>	mm <sup>2</sup>	2 x (0.25 2.5)
tool)	AWG conductors, solid or stranded	AWG	2 x (24 14)
Mounting positon (permissible)			Any
Shock resistance g/ms according to IEC 60068 for half-sine shock type		<i>g</i> /ms	15/11
Vibration resistance Hz/r according to IEC 60068-2-6		Hz/mm	10 55/0.35
Electromagnetic compatibility (EMC) Tests according to basic specification			EN 61000-6-2/EN 61000-6-4
<sup>1)</sup> If nothing else is stated.			
<sup>2)</sup> $I_{\rm k} \ge 1$ kA, weld-free according to IEC 60947-5-1.			

3) 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.