



## Bimetallic Class 10 3RU Thermally Delayed Relays

Technical Data according to IEC 60 947-4-1 and IEC 60 947-5-1

Type			3RU11 16-..	3RU11 26-..	3RU11 36-..	3RU11 46-..
<b>Trip class</b>	acc. to IEC 60947-4-1	CLASS	10	10	10	10
<b>Phase failure sensitivity</b>			yes	yes	yes	yes
<b>Increased safety EEx e</b>			KEMA test certificate No. EX-97.Y.3235 DMT 98 ATEX G001			
<b>Adjustable to automatic reset</b>			yes	yes	yes	yes
<b>RESET button with trip-free feature</b>			yes	yes	yes	yes
<b>Permissible ambient temperature</b> (above +60°C current reduction)	Storage/transport operation	°C	-55 to +80	-55 to +80	-55 to +80	-55 to +80
	Permissible rated current at: temperature inside cubicle 60°C	°C	-20 to +70	-20 to +70	-20 to +70	-20 to +70
	temperature inside cubicle 70°C	%	100	100	100	100
		%	87	87	87	87
<b>Temperature compensation</b>			°C	up to 60	up to 60	up to 60
<b>Switch position indicator, Test function, STOP button</b>			yes	yes	yes	yes
<b>Terminal for contactor coil, Terminal for contactor coil auxiliary contacts</b>			yes	not required	not required	not required
<b>Degree of protection</b>	acc. to IEC 60 529/DIN VDE 0470 Part 1		IP 20	IP 20	IP 20 <sup>Ⓞ</sup>	IP 20 <sup>Ⓞ</sup>
<b>Shock-hazard protection</b>	acc. to DIN VDE 0106 Part 100		Safe from finger touch	Safe from finger touch	Safe from finger touch	Safe from finger touch
<b>Shock resistance with sine</b>	acc. to IEC 60 068 Part 2-27	g/ms	8/10	8/10	8/10	8/10
<b>Main Circuit</b>						
<b>Rated insulation voltage <math>U_i</math> (pollution degree 3)</b>		V	690	690	690	1000
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>		kV	6	6	6	8
<b>Type of current</b>			DC, AC	DC, AC	DC, AC	DC, AC
<b>Current setting</b>		A	0.11–0.16 up to 9–12	1.8–2.5 up to 20–25	5.5–8 up to 40–50	18–25 up to 80–100
<b>Power losses per unit (max.)</b>		W	3.9 to 6.6	3.9 to 6	6 to 9	10 to 16.5
<b>Conductor Cross-section Main Circuit</b>						
Type of connection			Screw connection		Box terminal	
Terminal screw			Pozidriv size 2		Pozidriv size 2	4 mm Allen screw
Conductor cross-sections	solid	mm <sup>2</sup>	2 × (0.5 to 1.5)	2 × (1 to 2.5)	2 × (0.75 to 16)	2 × (2.5 to 16)
		mm <sup>2</sup>	2 × (0.75 to 2.5)	2 × (2.5 to 6)	—	—
	stranded	mm <sup>2</sup>	2 × (0.5 to 1.5)	2 × (1 to 2.5)	2 × (0.75 to 25)	2 × (10 to 50)
		mm <sup>2</sup>	2 × (0.75 to 2.5)	2 × (2.5 to 6)	1 × (0.75 to 35)	1 × (10 to 70)
Removable box terminal with cable lug connection	finely stranded with end sleeve	mm <sup>2</sup>	2 × (0.5 to 1.5)	2 × (1 to 2.5)	2 × (0.75 to 16)	2 × (2.5 to 35)
		mm <sup>2</sup>	2 × (0.75 to 2.5)	2 × (2.5 to 6)	1 × (0.75 to 25)	1 × (2.5 to 50)
AWG conductor connections solid or stranded		AWG	2 × (18 to 14)	2 × (14 to 10)	2 × (18 to 3)	2 × (10 to 1/0)
		AWG	—	—	1 × (18 to 2)	2 × (10 to 2/0)
busbar connection		mm	—	—	—	18 × 10
		mm <sup>2</sup>	—	—	—	to 2 × 70
<b>Auxiliary Circuit</b>						
<b>Auxiliary contacts</b>			1 NO + 1 NC			
<b>Contact rating</b>						
NC at AC, AC-14/AC-15	Rated operational current at $I_e$ at $U_e$ :	24V	A	4		
		230V	A	3		
		400V	A	1.5		
		600V	A	0.6		
NO at AC, AC-14/AC-15	Rated operational current at $I_e$ at $U_e$ :	24V	A	3		
		230V	A	2		
		400V	A	1		
		600V	A	0.6		
NC, NO at DC, DC-13	Rated operational current at $I_e$ at $U_e$ :	24V	A	1		
		110V	A	0.15		
		220V	A	0.1		
			A	6		
Conventional thermal current $I_{th}$						yes
Contact reliability (suitability for PLC control: 17 V, 5 mA)						
<b>Short-circuit protection</b>						
Fuse	Utilization category	gL/gG	A	6		
		fast	A	10		
			A	6 <sup>Ⓞ</sup>		
Miniature circuit-breakers, C-characteristics						

ⓄTerminal Department: Degree of Protection IP20  
 ⓂUp to  $I_k \leq 0.5$  kA;  $\leq 260$ V.