

Series D Single voltage relays 45mm module

- Line protection and detection relays.
- Detection functions: motor re-start, thermistor, earth-leakage, voltage, current, frequency ...
- Line protection: unbalance, maximum and minimum voltage, phase sequence ...



Standards

VDE 0106	CSA C 22.2 Nr.14	UNE 20-119
VDE 0110	UL 94	IEC/EN 60947-5-1
EN 50002	UL 508	IEC/EN 61812-1
EN 50042	IEC 255.5	CE
		CUL

Single voltage electronic relays - 45mm module




	Supply voltage	Voltage	Available contacts	Time range	Cat. no.	Ref. no.	Pack
<p>Motor re-start control relay (plug in)</p>	Direct ⁽¹⁾	220-230V 50/60Hz 110-125V 50/60Hz	RCRT 1 changeover	0.2 - 6 sec. (memory time) 0.2 - 60 sec. (delayed time)	RCRT 6 - 60AN	123624	1
					RCRT 6 - 60AJ	123623	1
					PRCZ11	220647	1
11 pins socket for RCRT for panel fixing. Front terminals Technical data: see G.10							

Earth leakage relays - 45 mm module



	Voltage (V)	Contacts	Sensiv. (A)	Ø (mm)	Differential transformers			Earth leakage relays					
					Cat. no.	Ref. no.	Pack	Cat. no.	Ref. no.	Pack			
<p>Differential earth leakage relay with hand reset (with test)</p>	220-230V 50/60Hz	RDHT 1-... With test 1 changeover	0.2 - 1.2	35	WKAT 35-1,2A/2V	204165	1	RDHT 1-1,2AEN	123744	1			
				70	WKAT 70-1,2A/2V	204166	1						
				35	WKAT 35-10A/2V	204169	1				RDHT 1-10AEN	123754	1
				70	WKAT 70-10A/2V	204170	1						
Technical data: see G.12													
<p>Differential earth leakage relay with automatic reset (with test)</p>	380-400V 50/60Hz	RDHA 1-... With test Direct and 1 changeover with transformer ⁽²⁾	0.2 - 1.2	35	WKAT 35-1,2A/2V	204165	1	RDHA 1-1,2AEU	123965	1			
				70	WKAT 70-1,2A/2V	204166	1						
				35	WKAT 35-10A/2V	204169	1				RDHA 1-10AEN	123964	1
				70	WKAT 70-10A/2V	204170	1						
Technical data: see G.12													

(1) Possibility of fitting a remote potentiometer.
(2) Transformer inside the relay



Liquid level detector relay

	Voltage (V)	Contacts	No. of circuits		Cat. no.	Ref. no.	Pack
	220-230V 50/60Hz	DINIL ...E 1 changeover	2		DINIL 02E ENU	123656	1
		11 pins socket for DINIL-02E, -03E. for panel fixing. Front terminals			PRCZ11	220647	1
							
Probes					SON-3	123700	1
							

Detection relays

	Supply voltage	Contacts	Operating range	Voltage drop	Input impedance	Max. input voltage	Cat. no.	Ref. no.	Pack
									
Voltage detector relay	Direct and with transformer	RDT 2-... 2 changeover	40 - 400V	-	800 kΩ	600V	RDT2400VEN ⁽¹⁾	124184	1
									
Current detector with delay (0.5 - 15 sec.)	Direct and with transformer	RDIT 2-... 2 changeover	0.5 - 5A 20 - 200mV	0.25V	0.05Ω 1 kΩ	10A 15V	RDIT2-5AEN ⁽¹⁾ RDIT2-02VEN ⁽¹⁾	124754 124354	1 1

Control and protection relays

	Supply voltage	Contacts	Thermal probe ⁽⁵⁾ When cold - When hot			Cat. no.	Ref. no.	Pack	
									
Thermistor relay	Direct and with transformer ⁽⁴⁾	RS01N 1 changeover	1.5 kΩ	2.5 kΩ		RS01NEN ⁽¹⁾ RS01NAJ ⁽²⁾	212759 124373	1 1	
									
Frequency control relay	With transformer ⁽⁴⁾	RCF 1-... 1 changeover			Jumper terminals	Setting range	Cat. no.	Ref. no.	Pack
					Without	5 - 15Hz	RCF-1 AJ ⁽²⁾	124433	1
					Y1 - Y2	15 - 45Hz	RCF-1 EN ⁽¹⁾	124434	1
					Y1 - Y3	45 - 135Hz	RCF-1 AU ⁽³⁾	124435	1







(1) EN = coil 220/230V 50/60Hz
 (2) AJ = coil 110V 50/60Hz
 (3) AU = coil 380/400V 50/60Hz

(4) Transformer inside the timer housing
 (5) Thermal probe resistance not included
 (6) ENU = coil 220-230V 380-400V 50/60Hz

Dimensions ● pg. G.20



Protection relays

	Supply voltage contact	Contacts	Operating range		Unbalance	Mains frequency	Cat. no.	Ref. no.	Pack
			Umin.	Umax.					
 <p>Integral protection relay for three-phase lines</p>	400V 50Hz With transformer ⁽¹⁾	RDF1 1-... 1 changeover	5 - 20%	5 - 15%	2.5 - 10%	50 Hz	RDF1-50AU	123985	1
	Technical data: see G.13								
 <p>Unbalance and phase failure protection relay for three-phase lines</p>	400V 50Hz Direct and with transformer ⁽¹⁾	RPDF 2-... 2 changeover	-	-	2.5 - 10%	50 Hz	RPDF2-50AU	124025	1
	Technical data: see G.14								
 <p>Phase sequence and phase failure protection relay for three-phase lines</p>	400V 50Hz With transformer ⁽¹⁾	RSFF 1-... 1 changeover	-	-	-	50 Hz	RSFF1-50AU	124622	1
	Technical data: see G.15								
 <p>Phase sequence protection relay for three-phase lines</p>	220-230V 380-400V 50/60Hz With transformer ⁽¹⁾	RSF 1-... 1 changeover	-	-	-	50 Hz	RSF1-50ENU ⁽⁶⁾	124051	1
	Technical data: see G.15								
 <p>Maximum and minimum voltage protection relay for three-phase lines</p>	380/400V 220/230V 50/60Hz With transformer ⁽¹⁾	RTMM 2-... 2 changeover	5 - 20%	5 - 15%	-		RTMM 2 AU RTMM 2 EN	124085 124084	1 1
	Technical data: see G.16								
 <p>Maximum and minimum voltage protection relay for a single-phase lines</p>	220/230V 50/60Hz With transformer ⁽¹⁾	RMM 2-... 2 changeover	5 - 20%	5 - 15%	-		RMM 2 EN	124104	1
	Technical data: see G.16								

(1) Transformer inside the relay

Intro

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J/X