

Series D Sin

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
Motor re-start	Direct ⁽¹⁾	220-230V	RCRT	0.2 - 6 sec.	RCRT 6 - 60AN	123624	1
control relay (plug in)		50/60Hz	1 changeover	(memory time)			
		110-125V		0.2 - 60 sec.	RCRT 6 - 60AJ	123623	1
KANA DIA DIA DIA DIA DIA DIA DIA DIA DIA DI	_	50/60Hz		(delayed time)			
C and a second	11 pins socket for	r RCRT for panel fi	xing.		PRCZ11	220647	1
	Front terminals						
	Technical data: s	ee G.10					

Earth leakage relays - 45 mm module

					Differential transformers			Earth leakage relays		
	Voltage (V)	Contacts	Sensiv. (A)	Ø (mm)	Cat. no.	Ref. no.	Pack	Cat. no.	Ref. no.	Pack
Differential earth leakage relay with hand reset (with test)	220-230V 50/60Hz	RDHT 1 With test 1 changeover	0.2 - 1.2		WKAT 35-1,2A/2V WKAT 70-1,2A/2V		1 1	RDHT 1-1,2AEN	123744	1
	220-230V 50/60Hz		1 - 10	35 70	WKAT 35-10A/2V WKAT 70-10A/2V	204169 204170	1 1	RDHT 1-10AEN	123754	1
	Technical date	a: see G.12								
Differential earth leakage relay with automatic reset (with test)	380-400V 50/60Hz Direct and with transform	RDHA 1 With test 1 changeover	0.2 - 1.2		WKAT 35-1,2A/2V WKAT 70-1,2A/2V		1 1	RDHA 1-1,2AEU	123965	1
	220-230V 50/60Hz		1 - 10	35 70	WKAT 35-10A/2V WKAT 70-10A/2V	204169 204170	1 1	RDHA 1-10AEN	123964	1
1000 H	Technical date	a: see G.12								

(1) Possibility of fitting a remote potentiometer.

(2) Transformer inside the relay

Intro

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	Voltage (V)	Contac		o. of rcuits		Ca	t. no.	Re	f. no.	Pack
0 0 0 0 0 0 + + + + + + + + + + + + + + + + + + +	220-230V 50/60Hz	DINIL 1 change		2		DINIL	02E ENU	12	3656	1
	11 pins socket	for DINIL-02E	, -03E.			PR	CZ11	22	0647	1
	for panel fixing Technical data	. Front termin : G.11	als							
Probes	Without cable. thermoplastic l					S	ON-3	12	3700	1
0										
	Detectio	n relays	5							
	Supply voltage	Contacts	Operating range	Voltage drop	Input impedance	Max. input voltage	Cat. no	0.	Ref. no.	Pack
Voltage detector relay	Direct and with transformer		40 - 400V	-	800 kΩ	600V	RDT2400\	VEN ⁽¹⁾	124184	1
	Technical data									
	Direct and with		0.5 - 5A	0.25V	0.05Ω	10A	RDIT2-5A	EN(1)	124754	1
Current detector with	transformer	2 changeover			1 kΩ	10A 15V	RDIT2-02V		124354	1
delay (0.5 - 15 sec.)	Technical data	: see G.17								

Liquid level detector relay

Control and protection relays

Supply voltage	Contacts	Thermal probe ⁽⁵⁾ When cold - When hot			Cat. no.	Ref. no.	Pack
		1.5 kΩ 2.5 kΩ			RS01NEN ⁽¹⁾	212759	1
					KSUINAJ ^{**}	124373	1
Supply voltage	Contacts		Jumper terminals	Setting range	Cat. no.	Ref. no.	Pack
With	RCF 1	-	Without	5 - 15Hz	RCF-1 AJ(2)	124433	1
transformer	1 changeover						1
Technical date	: see G.19			10 100112			÷
	voltage Direct and with transformer ^(a) Technical data Supply voltage With transformer ^(a)	voltage Direct and with RS01N transformer ⁽⁴⁾ 1 changeover Technical data: see G.18 Supply voltage Contacts	voltage When cold - When hot Direct and with transformer ^(a) 1 changeover 1.5 kΩ 2.5 kΩ Technical data: see G.18 Supply voltage Contacts With transformer ^(a) RCF 1 transformer ^(a) 1 changeover	voltage When cold - When hot Direct and with transformer ^(a) 1 changeover 1.5 kΩ 2.5 kΩ Technical data: see G.18 Image: Supply contacts Image: Supply contacts With transformer ^(a) Contacts Jumper terminals With transformer ^(a) 1 changeover Without Y1 - Y2 Y1 - Y3 Y1 - Y2	voltage When cold - When hot Direct and with transformer ^(a) 1.5 kΩ 2.5 kΩ Technical data: see G.18 Image: Section of the section of t	voltage When cold - When hot RS01 Direct and with transformer ⁽⁴⁾ 1.5 kΩ 2.5 kΩ RS01NEN ^[1] Technical data: 1.5 kΩ 2.5 kΩ RS01NEN ^[1] Supply voltage Contacts Jumper terminals RS01NA J ⁽²⁾ With transformer ⁽⁴⁾ Contacts Jumper terminals Setting range Cat. no. With transformer ⁽⁴⁾ RCF 1 1 changeover Without 5 - 15Hz RCF-1 AJ ⁽²⁾ Y1 - Y2 15 - 45Hz RCF-1 EN ⁽¹⁾ Y1 - Y3 45 - 135Hz RCF-1 AU ⁽³⁾	voltage When cold - When hot RS01N 212759 Direct and with transformer ⁽⁴⁾ 1 changeover 1.5 kΩ 2.5 kΩ RS01NEN ⁽¹⁾ 212759 Technical data: see G.18 1.5 kΩ 2.5 kΩ RS01NEN ⁽¹⁾ 2124373 Supply voltage Contacts Jumper terminals Setting range Cat. no. Ref. no. With transformer ⁽⁴⁾ RCF 1 1 changeover With V1 - Y2 5 - 15Hz V1 - Y2 RCF-1 AJI ⁽²⁾ 124433 124434

Dimensions 🔵 pg. G.20

99299

EN = coil 220/230V 50/60Hz
 AJ = coil 110V 50/60Hz
 AU = coil 380/400V 50/60Hz

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



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	Protectio	on relay:	S					
	Supply voltage contact	Contacts	Operating range Umin. Umax.	Unbalance	Mains frequency	Cat. no.	Ref. no.	Pac
Integral protection relay for three-phase lines	400V 50Hz With transformer ⁽¹⁾	RDFF 1 1 changeover	5 - 20% 5 - 15%	2.5 - 10%	50 Hz	RDFF1-50AU	123985	1
	Technical data	: see G.13						
Unbalance and phase failure protection relay for three-phase lines	400V 50Hz Direct and with transformer ⁽¹⁾	RPDF 2 2 changeover		2.5 - 10%	50 Hz	RPDF2-50AU	124025	1
0	Technical data	: see G.14						
Phase sequence and phase failure protection relay for three-phase lines	400V 50Hz With transformer ⁽¹⁾	RSFF 1 1 changeover		-	50 Hz	RSFF1-50AU	124622	1
	Technical data	: see G.15						
Phase sequence protection relay for three-phase lines	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						
Maximum and minimum voltage protection relay for three-phase lines	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
00	Technical data	: see G.16						
Maximum and minimum voltage protection relay for a single-phase lines	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						

Protection relays

(1) Transformer inside the relay

Dimensions 🔵 pg. G.19



Electronic relays of 45 mm

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Series D