Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT2 Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

3RA28 function modules for mounting on 3RT2 contactors and 3RH2 contactor relays

Type Mounting on contactors of size Function			3RA2811 S00, S0 For direct-or	3RA2831 S2 n-line starting	3RA2812 S00, S0	3RA2832 S2	3RA2816 S00, S0, S2 For star-delta (wye-delta) starting
			ON-delay		OFF-delay with control	signal	
General data					William Contact	orginal	
Dimensions (basic unit with moun	ted function module)		See 3RT20 c (page 5/7)	ontactors (pag	es 3/20, 3/26,	3/31) and 3RF	H2 contactor relays
Rated insulation voltage <i>U</i> _i Pollution degree 3 Overvoltage category III		V AC	300				
Rated impulse withstand voltage	II.	kV AC	4				
Overvoltage protection	~imp		Varistor integ	rated			
Recovery time		ms	50				150
Minimum ON period		ms			35		
Setting accuracy With reference to upper limit of scale	Тур.	-	± 15 %				
Repeat accuracy	Max.		± 1 %				
Degree of protection acc. to IEC			IP20				
Permissible ambient temperature)						
During operation		°C	-25 +60				
During storage		°C	-40 +80				
Shock resistance Half-sine acc. to IEC 60068-2-27		<i>g</i> /ms	15/11				
Vibration resistance acc. to IEC 6	60068-2-6	Hz/mm	10 55/0.35				
Electromagnetic compatibility (E	MC)		IEC 61000-6	2, IEC 61000-6	6-4, IEC 61812	2-1, IEC 60947	-4-1
Permissible mounting position				iting position of			pages 3/20, 3/26, 3/31; see page 5/6)
Control side							
Operating range of excitation			0.85 1.1 x 0.95 1.05	$U_{ m s}$, imes the rated	frequency		
Rated power		W	1				
Power consumption at 230 V AC,	50 Hz	VA	1				2
Load side							
Mechanical endurance		Operating cycles	100 x 10 ⁶				10 x 10 ⁶
Electrical endurance							
With 3RT2028 contactor		Operating cycles					
• At AC-15, 250 V, 3 A		Operating cycles					100 000
Switching frequency for load		1	0.500				
• With $I_{\rm e}$ at 230 V AC		h ⁻¹ h ⁻¹	2 500				
With 3RT2 contactor at 230 V AC Residual current	Max.	mA	2 500				
Voltage drop With conducting output	мах. Мах.	VA	3.5				
DIAZED fuse protection	Operational class g	G A					4
Conductor cross-sections	,		- Carauri	e veninale			
Connection type (1 or 2 conductors can be connect	ed)	2	•	erminals			
• Solid	DINI 40000 13	mm ²		2 x (0.5 2.5			
Finely stranded with end sleeve (DIN 46228-1)	mm ²		5), 2 x (0.5 1	.5)		
AWG cables, solid or strandedTerminal screws		AWG	2 x (20 14)		or cizo 2 az D-	zidriv O	
Tightening torque		Nm	0.8 1.2	lard screwdrive	51 SIZE Z UI PO	ZIUIIV Z)	
Connection type		INIII	Spring- Spring-	type terminals	3		
(1 or 2 conductors can be connect	ed)						
Operating devices		mm 2	3.0 x 0.5	5 \			
Solid Finally attranded with and alease	DINI 40000 4)	mm ²	2 x (0.25 1				
Finely stranded with end sleeve (Finely stranded without and sleeve)		mm ² mm ²	2 x (0.25 1				-
 Finely stranded without end sleever AWG cables, solid or stranded 	/E	mm- AWG	2 x (0.25 1 2 x (24 16)	,			
- AVVG Caples, solid of Stranded		AVVG	۷ (۷4 ال				

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Accessories and Spare Parts for SIRIUS 3RT2 Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Modules for contactor control

PU (UNIT, SET, M) = 1 = 1 unit = 41B







3RA2811-2CW10 3RA2816-0E 3RA2816-0E

24 ... 240

For contactors	Size	Version	Rated control supply voltage $U_s^{1)}$	Time setting range t	DT	Screw terminals	+	DT	Spring-type terminals	8
Туре			V AC/DC	s		Article No.	Price per PU		Article No.	Price per PU
	function n	nodules for mounting on 3RT elays	2 contactors	and						

3RA28 function mod	lules for mounting	g on 3RT2 contactors	and
3RH2 contactor rela	<i>y</i> s		

e starting					
ON-delay	24 240	0.05100 A	3RA2811-1CW10	Α	3RA2811-2CW10
Two-wire design, varistor integrated		(1, 10, 100; selectable)			
	24 90	0.05100 A	3RA2831-1DG10	Α	3RA2831-2DG10
contactor underneath is established automatically when it	90 240	(1, 10, 100; A selectable)	3RA2831-1DH10	А	3RA2831-2DH10
is snapped on and locked.					
OFF-delay with control signal	24 240	0.05100 A (1, 10, 100;	3RA2812-1DW10	А	3RA2812-2DW10
Varistor integrated		selectable)			
	24 90	0.05100 A	3RA2832-1DG10	Α	3RA2832-2DG10
contactor underneath is established automatically when it is snapped on and locked.	90 240	(1, 10, 100; A selectable)	3RA2832-1DH10	A	3RA2832-2DH10
-	ON-delay Two-wire design, varistor integrated The electrical connection between the function module and the contactor underneath is established automatically when it is snapped on and locked. OFF-delay with control signal Varistor integrated The electrical connection between the function module and the contactor underneath is established automatically when it	ON-delay Two-wire design, varistor integrated The electrical connection between the function module and the contactor underneath is established automatically when it is snapped on and locked. OFF-delay with control signal Varistor integrated The electrical connection between the function module and the contactor underneath is 90 240 established automatically when it	Two-wire design, varistor integrated The electrical connection between the function module and the contactor underneath is established automatically when it established connection between the function module and the contactor underneath is established automatically with control signal Varistor integrated The electrical connection between the function module and the contactor underneath is established automatically when it 24 240	ON-delay Two-wire design, varistor integrated The electrical connection between the function module and the contactor underneath is established automatically when it is snapped on and locked. OFF-delay with control signal Varistor integrated 24 90	ON-delay Two-wire design, varistor integrated The electrical connection between the function module and the contactor underneath is established automatically when it is snapped on and locked. OFF-delay with control signal Varistor integrated 24 240 0.05 100 A (1, 10, 100; selectable) A 3RA2831-1DG10 A 3RA2831-1DH10 A 3RA2831-1DH10 A 3RA2831-1DH10 A A 3RA2831-1DH10 A 3RA2831-1DH10 A A 3RA2832-1DH10 A A SRA2832-1DH10 A A A A A A A A A A A A A A A A A A A

0.5 ... 60 (10, 30, 60;

selectable)

3RA2816-0EW20

For star-	-delta (wy	re-delta) starting	
3RT201.,	S00 S2	Varistor integrated	
2DT2O2		=	

3RT202., 3RT203.²⁾ The electrical connection between the function module and the contactor assembly is established automatically by snapping on and plugging in the connecting cables. Note:

> When using the function modules for contactor assemblies for star-delta (wye-delta) starting, no other auxiliary switches are allowed to be connected to the basic units

Accessories

3RA2910-0 3RA2910-0 S00 ... S2 Sealable covers

For technical specifications, see page 3/62.

Manual

For the manual "SIRIUS 3RA28 Function Modules for Mounting on 3RT2 Contactors", see

https://support.industry.siemens.com/cs/ww/en/view/60279150.

3RA2816-0EW20

¹⁾ AC voltage values apply for 50 Hz and 60 Hz.

²⁾ Cannot be fitted onto coupling relays.

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Accessories

Modules for contactor control

Operating travel diagrams

Function	Function charts	
	ZZZ Timing relay energized	
	Contact closed	
	Contact open	
1 NO contact (semiconducto	or output)	
ON-delay	3RA2811CW10	3RA2831D.10
	3RA28	3RA28
OFF-delay with control signal	3RA2812DW10 A3/A4 //////////////////////////////////	3RA2832D.10 A3/A4 //////////////////////////////////

2 NO contacts (interconnected internally)

Star-delta (wye-delta) starting

- 1 NO contact delayed
- 1 NO contact instantaneous

3RA2816-0EW20
A1/A2 Q1 7 Q2 7 A Q3 7 A Q3 7 A Q3 7 A Q3 7 A Q5 7