SIEMENS

Data sheet

3RT2016-1FB44-3MA0

CONTACTOR, AC-3, 4KW/400V, 2NO+2NC, DC 24V, W. INTEGRATED DIODE 3-POLE, SZ S00 SCREW TERMINAL PERMANENT AUX. SWITCH



product brandname	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

A	
General technical data	
Size of contactor	S00
Product extension	
 function module for communication 	No
Auxiliary switch	No
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	

• at DC	6,7g / 5 ms, 4,2g / 10 ms			
Shock resistance with sine pulse				
• at DC	10,5g / 5 ms, 6,6g / 10 ms			
Mechanical service life (switching cycles)				
 of contactor typical 	10 000 000			
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000			
 of the contactor with added auxiliary switch 	10 000 000			
block typical				
Ambient conditions				
Ambient temperature				
 during operation 	-25 +60 °C			
 during storage 	-55 +80 °C			
Main circuit				
Number of poles for main current circuit	3			
Number of NO contacts for main contacts	3			
Operating voltage				
 at AC-3 rated value maximum 	690 V			
Operating current				
• at AC-1 at 400 V				
— at ambient temperature 40 °C rated value	22 A			
● at AC-1				
— up to 690 V at ambient temperature 40 °C rated value	22 A			
— up to 690 V at ambient temperature 60 °C rated value	20 A			
• at AC-2 at 400 V rated value	9 A			
• at AC-3				
— at 400 V rated value	9 A			
— at 500 V rated value	7.7 A			
— at 690 V rated value	6.7 A			
Connectable conductor cross-section in main circuit				
at AC-1	2.5 mm ²			
• at 60 °C minimum permissible	2.5 mm ²			
at 40 °C minimum permissible	4 mm ²			
Operating current for approx. 200000 operating cycles at AC-4				
• at 400 V rated value	4.1 A			
• at 690 V rated value	3.3 A			
Operating current				
• at 1 current path at DC-1				
— at 24 V rated value	20 A			

— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 110 V rated value	0.35 A
— at 24 V rated value	20 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 24 V rated value	20 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
Operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V rated value	13 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V rated value	22 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-2 at 400 V rated value	4 kW
• at AC-3	0.01111
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW

Number of NC contacts• for auxiliary contacts- instantaneous contact2Number of NO contacts• for auxiliary contacts- instantaneous contact- instantaneous contact2Operating current at AC-12 maximum10 A	— at 690 V rated value	5.5 kW
aid 400 V rated value 2 kW • at 600 V rated value 2.5 kW Thermal short-time current limited to 10 s 72 A Power loss (M) at AC-3 at 400 V for rated value of the operating current per conductor 0.7 W No-load switching frequency 0.7 W • at DC 10 000 1/h Operating frequency 0.0 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 24 V Design of the surge suppressor with diode Control supply voltage at DC 4 W • at DC 30 100 ms Openating delay - • at DC 30 100 ms Openating delay - • at DC 3 mA • at DC at 230 V maximum permissible 3 mA • at DC at 230 V maximum permissible 3 mA • at DC at 24 V maximum permissible 3 mA • at DC at 24 V maximum permissible 3 mA • at DC at 24 V maximum permissible 10 mA	Operating power for approx. 200000 operating cycles	
at 690 V rated value 2.5 kW Thermal short-time current limited to 10 s 72 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 0.7 W No-load switching frequency 0.1000 1/h • at DC 10 000 1/h Operating frequency 0.7 W • at DC 10 000 1/h • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 26 0 1/h • at AC-4 maximum 24 V • at AC at 410 value 24 V • at AC at 20 V may pressor with diode Closing over of magnet coil at DC 4 W • at DC 30 100 ms Opening delay 0 15 ms • at DC at 24 V maximum permissible 10 mA Auxiliary contacts	at AC-4	
Themai short-time current limited to 10 s 72 A 0.7 W Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency e at DC 10 000 1/h Operating frequency e at AC-1 maximum 1000 1/h e at AC-2 maximum 750 1/h e at AC-3 maximum 750 1/h e at AC-4 maximum 750 1/h e at AC-3 maximum 750 1/h e at AC-4 maximum 750 1/h e at AC -4 maximum 750 1/h e at AC -4 maximum 750 1/h e at AC = 4 W e A P P P P P P P P P P P P P P P P P P	• at 400 V rated value	2 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 0.7 W No-load switching frequency 10 000 1/h • at DC 10 000 1/h Operating frequency 10 000 1/h • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 24 V Control supply voltage at DC - • rated value 24 V Design of the surge suppressor with diode Closing power of magnet coil at DC 4 W Holding power of magnet coil at DC 4 W Closing delay - • at DC 7 13 ms Arcing time 10 15 ms Residual current of the electronics for control with signal <d> 3 mA • at DC at 24 V maximum permissible 3 mA • at DC at 24 V maximum permissible 10 mA Anumber of NC contacts</d>	• at 690 V rated value	2.5 kW
the operating ourrent per conductor Image: Control switching frequency • at DC 0000 1/h Operating frequency 1000 1/h • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h Control circuit/ Control D Control supply voltage at DC V • rated value 24 V Design of the surge suppressor with diode Closing power of magnet coil at DC 4 W Holding power of magnet coil at DC 4 W Closing delay - • at DC 30 100 ms Opening delay - • at DC 3 mA at DC 3 mA • at DC Ac 2120 V maximum permissible 3 mA • at DC at 24 V maximum permissible 3 mA • at DC contacts - • at DC contacts - • for auxiliary contacts - • for auxiliary contacts 2 <t< th=""><th>Thermal short-time current limited to 10 s</th><th>72 A</th></t<>	Thermal short-time current limited to 10 s	72 A
No-load switching frequency 10 000 1/h operating frequency 1000 1/h at AC-1 maximum 1 000 1/h at AC-1 maximum 1 000 1/h at AC-2 maximum 750 1/h at AC-3 maximum 250 1/h at AC-4 maximum 250 1/h ottage of the control supply voltage DC Control circuit/ Control 24 V Control supply voltage at DC 4 W ottage of the control supply voltage 0.0 Control supply voltage at DC 4 W ottage of magnet coil at DC 4 W Holding power of magnet coil at DC 4 W Closing delay 30 100 ms opening delay 10 15 ms e at DC 3 mA at DC at 24 V maximum permissible 3 mA at DC at 24 V maximum permissible 3 mA at DC at 24 V maximum permissible 3 mA at DC at 24 V maximum permissible 3 mA at DC at 24 V maximum permissible 3 mA at DC at 24 V maximum permissible 3 mA at DC at 24 V maximum permissible 3 mA	Power loss [W] at AC-3 at 400 V for rated value of	0.7 W
• at DC10 000 1/hOperating frequency	the operating current per conductor	
Operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 250 1/h • at AC-4 maximum 24 V • at AC at gauge suppressor with diode • at DC 4 W • At DC 30 100 ms • Design of the surge suppressor is for control with 30 100 ms • at DC 7 13 ms • Arcing time 10 15 ms • at AC at 230 V maximum permissible 3 mA • at AC at 230 V maximum permissible 3 mA • at AC at 24 V maximum permissible 3 mA • at Coentlacts	No-load switching frequency	
• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlControl circuit/ ControlType of voltage of the control supply voltageDCControl supply voltage at DC • rated value24 VDesign of the surge suppressorwith diodeClosing power of magnet coll at DC4 WHolding power of magnet coll at DC30 100 msOpening delay • at DC30 100 msOpening delay • at DC7 13 msArcing time10 15 msResidual current of the electronics for control with signal <d< td="">3 mA• at DC at 24 V maximum permissible3 mA• at DC at 24 V maximum permissible3 mA• at DC at 24 V maximum permissible2• for auxiliary contacts - instantaneous contact2• for auxiliary contacts - instantaneous contact2• for auxiliary contacts - instantaneous contact2• for auxiliary contacts - instantaneous contact2• for auxil</br></br></br></d<>	• at DC	10 000 1/h
eat AC-2 maximum 750 1/h eat AC-3 maximum 750 1/h eat AC-4 maximum 250 1/h Control circuit/ Control Type of voltage of the control supply voltage DC Control supply voltage at DC - erated value 24 V Design of the surge suppressor with diode Closing power of magnet coll at DC 4 W Holding power of magnet coll at DC 4 W Closing delay 30 100 ms opening delay - e at DC 7 13 ms Arcing time 10 15 ms Residual current of the electronics for control with signal <0- 3 mA e at DC at 24 V maximum permissible 3 mA e at DC at 24 V maximum permissible 3 mA i at DC at 24 V maximum permissible 2 e for auxiliary contacts - e for auxiliary contacts 2 e instantaneous contact 2 Number of NC contacts 2 e instantaneous contact 2 Operating current at AC-12 maximum 10 A	Operating frequency	
at AC-3 maximum750 f/h• at AC-3 maximum250 f/hControl circuit/ Control250 f/hControl supply voltage of the control supply voltageDCControl supply voltage at DC24 V• rated value24 VDesign of the surge suppressorwith diodeClosing power of magnet coil at DC4 WHolding power of magnet coil at DC4 WClosing delay30 100 ms• at DC30 100 msOpening delay10 15 ms• at DC3 mA• at DC at 24 V maximum permissible3 mA• for auxiliary contacts2• for auxiliary contacts2• instantaneous contact2Poperating CN Contacts2• instantaneous contact2• for auxiliary contacts2• instantaneous contact2• for auxiliary contacts2• instantaneous contact2• Operating current at AC-12 maximum10 A	● at AC-1 maximum	1 000 1/h
a trace of instantiation 250 t/m control circuit// Control 250 t/m Type of voltage of the control supply voltage DC Control supply voltage at DC 4 • rated value 24 V Design of the surge suppressor with diode Closing power of magnet coil at DC 4 W Holding power of magnet coil at DC 4 W Closing delay 30 100 ms • at DC 30 100 ms Opening delay 10 15 ms • at DC 3 mA • at C at 230 V maximum permissible 3 mA • at DC at 24 V maximum permissible 3 mA • at DC at 24 V maximum permissible 3 mA • at DC at 24 V maximum permissible 3 mA • at DC at 24 V maximum permissible 3 mA • at DC at 24 V maximum permissible 3 mA • at DC contacts 2 • for auxiliary contacts 2 - instantaneous contact 2 Number of NC contacts 2 • for auxiliary contacts 2 - instantaneous contact 2 Operating current at AC-12 maximum 10 A	• at AC-2 maximum	750 1/h
Control circuit/ Control DC Type of voltage of the control supply voltage DC Control supply voltage at DC - • rated value 24 V Design of the surge suppressor with diode Closing power of magnet coil at DC 4 W Holding power of magnet coil at DC 4 W Closing delay - • at DC 30 100 ms Opening delay - • at DC 7 13 ms Arcing time 10 15 ms Residual current of the electronics for control with signal <0> 3 mA • at DC at 24 V maximum permissible 3 mA • at DC at 24 V maximum permissible 2 Number of NC contacts - • for auxiliary contacts 2 • for auxiliary contacts 10 A	• at AC-3 maximum	750 1/h
Type of voltage of the control supply voltage DC Control supply voltage at DC 4 V • rated value 24 V Design of the surge suppressor with diode Closing power of magnet coil at DC 4 W Holding power of magnet coil at DC 4 W Closing delay at DC • at DC 30 100 ms Opening delay - • at DC 7 13 ms Arcing time 10 15 ms Residual current of the electronics for control with signal <0> • at DC at 230 V maximum permissible 3 mA • at DC at 230 V maximum permissible 3 mA • at DC at 24 V maximum permissible 2 Multipact control with signal <0> • at DC at 24 V maximum permissible 2 maximum permissible • for auxiliary contacts 2 • instantaneous contact 2 Number of NC contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 2 • instantaneous contact 2 Operating current at AC-12 maximum 10 A	• at AC-4 maximum	250 1/h
Type of voltage of the control supply voltage DC Control supply voltage at DC 4 V • rated value 24 V Design of the surge suppressor with diode Closing power of magnet coil at DC 4 W Holding power of magnet coil at DC 4 W Closing delay at DC • at DC 30 100 ms Opening delay - • at DC 7 13 ms Arcing time 10 15 ms Residual current of the electronics for control with signal <0> • at DC at 230 V maximum permissible 3 mA • at DC at 230 V maximum permissible 3 mA • at DC at 24 V maximum permissible 2 Multipact control with signal <0> • at DC at 24 V maximum permissible 2 maximum permissible • for auxiliary contacts 2 • instantaneous contact 2 Number of NC contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 2 • instantaneous contact 2 Operating current at AC-12 maximum 10 A	Control circuit/ Control	
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• rated value24 VDesign of the surge suppressorwith diodeClosing power of magnet coil at DC4 WHolding power of magnet coil at DC4 WClosing delay30 100 ms• at DC7 13 msArcing time10 15 msResidual current of the electronics for control with signal <0>3 mA• at DC at 24 V maximum permissible3 mA• at DC at 24 V maximum permissible10 mAArcing time2• at DC at 24 V maximum permissible2• at DC at 24 V maximum permissible10 mAAuxiliary contacts - instantaneous contact2• for auxiliary contacts - instantaneous contact2• for auxiliary contacts 		
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• at AC at 230 V maximum permissible3 mA• at DC at 24 V maximum permissible10 mAAuxiliary circuitNumber of NC contacts• for auxiliary contacts- instantaneous contact• for auxiliary contacts- instantaneous contact• for auxiliary contacts- instantaneous contact2Number of NO contacts• for auxiliary contacts• f	Residual current of the electronics for control with	
• at DC at 24 V maximum permissible10 mAAuxiliary circuitIn the second secon	•	3 mA
Auxiliary circuit Number of NC contacts • for auxiliary contacts - instantaneous contact 2 Number of NO contacts • for auxiliary contacts 0perating current at AC-12 maximum		
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• for auxiliary contacts2- instantaneous contact2Number of NO contacts-• for auxiliary contacts instantaneous contact2Operating current at AC-12 maximum10 A	Auxiliary circuit	
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Number of NO contacts	 for auxiliary contacts 	
• for auxiliary contacts 2 — instantaneous contact 2 Operating current at AC-12 maximum 10 A		2
— instantaneous contact2Operating current at AC-12 maximum10 A		
Operating current at AC-12 maximum 10 A	 for auxiliary contacts 	
	— instantaneous contact	
Operating surrent at AC 15		10 A
	Operating current at AC-15	
• at 230 V rated value 6 A	• at 230 V rated value	6 A
• at 400 V rated value 3 A	• at 400 V rated value	3 A

Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 600 V rated value	0.1 A
• at 220 V rated value	0.3 A
• at 125 V rated value	0.9 A
• at 110 V rated value	1 A
• at 60 V rated value	2 A
• at 48 V rated value	2 A
• at 24 V rated value	6 A
Operating current at DC-13	
• at 600 V rated value	0.15 A
• at 220 V rated value	1 A
• at 125 V rated value	2 A
• at 110 V rated value	3 A
• at 60 V rated value	6 A
• at 48 V rated value	6 A
• at 24 V rated value	10 A
Operating current at DC-12	
• at 690 V rated value	1 A
• at 500 V rated value	2 A

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	7.6 A
• at 600 V rated value	9 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
 for three-phase AC motor 	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

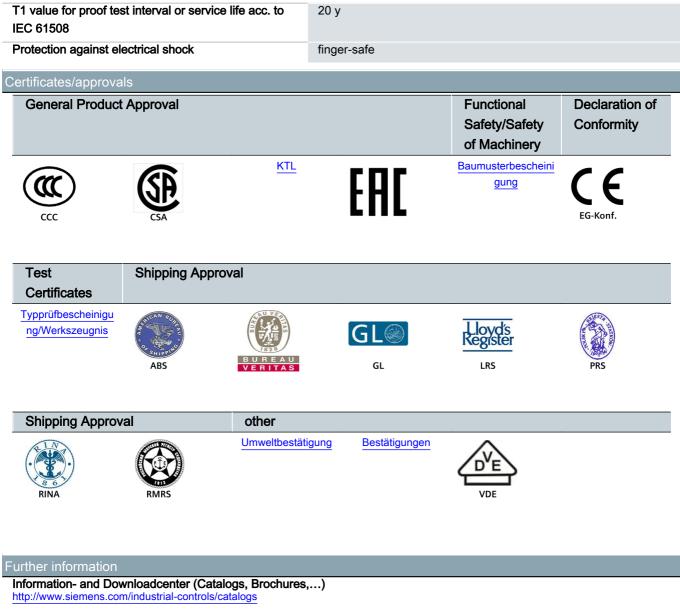
Short-circuit protection

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
• for short-circuit protection of the auxiliary switch	fuse gG: 10 A
required	

Mounting position	+/-180° rotation possible on vertical mounting surface; can be				
	tilted forward and backward by +/- 22.5° on vertical mounting				
	surface				
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail				
	according to DIN EN 60715				
Side-by-side mounting	Yes				
Height	58 mm				
Width	45 mm 117 mm				
Depth Required spacing					
for grounded parts at the side	6 mm				
— at the side	0 mm				
• for live parts	6 mm				
— at the side	0 11111				
connections/Terminals					
Type of electrical connection					
 for main current circuit 	screw-type terminals				
 for auxiliary and control current circuit 	screw-type terminals				
Type of connectable conductor cross-sections					
• for main contacts					
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²				
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²				
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 at AWG conductors for main contacts 	2x (20 16), 2x (18 14), 2x 12				
Type of connectable conductor cross-sections					
 for auxiliary contacts 					
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²				
- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12				
afety related data					
B10 value					
 with high demand rate acc. to SN 31920 	1 000 000				
Proportion of dangerous failures					
 with low demand rate acc. to SN 31920 	40 %				
 with high demand rate acc. to SN 31920 	73 %				
Failure rate [FIT]					
 with low demand rate acc. to SN 31920 	100 FIT				
Product function					
 Mirror contact acc. to IEC 60947-4-1 	Yes				
 positively driven operation acc. to IEC 60947-5- 	No				



Industry Mall (Online ordering system)

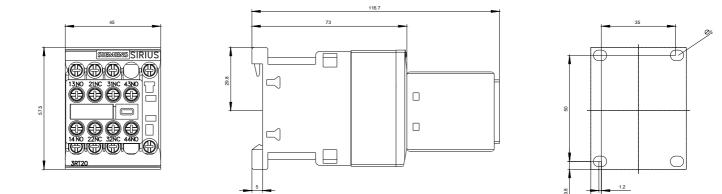
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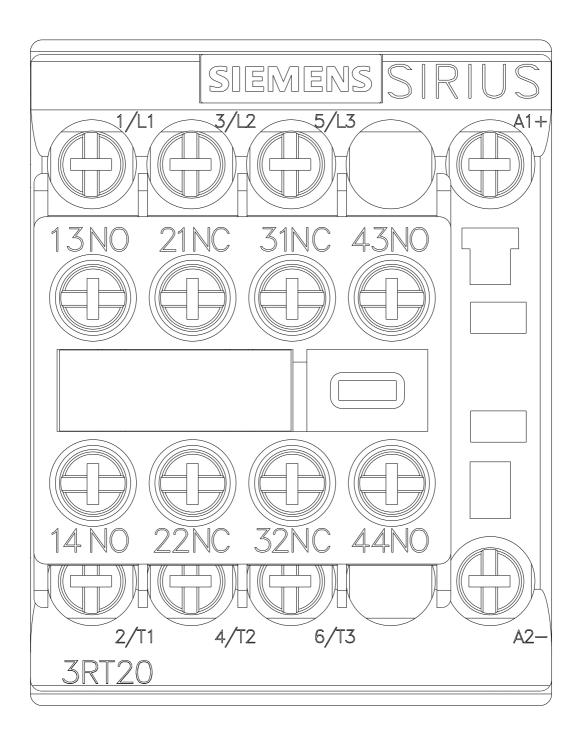
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1FB44-3MA0&lang=en





A1(+)	1 /L1	3 /L2	5 /L3	13	21	31	43
•							
					•	•	
					/		
A2(-)	2 /T1	4 /T2	<u>6</u> /T3	<u>,</u> 14 ,	<u>, 22</u>	, 32 ,	<u>4</u> 4



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