SIEMENS

Data sheet

3RT2017-1FB44-3MA0



CONTACTOR, AC-3, 5.5KW/400V, 2NO+2NC, DC 24V, W. INTEGRATED DIODE 3-POLE, SZ S00 SCREW TERMINAL PERMANENT AUX. SWITCH

product brand name		SIRIUS
Product designation		3RT2 contactor
General technical data:		
Insulation voltage		
Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
 of the 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 block typical 		10 000 000
Thermal short-time current restricted to 10 s	Α	90
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q
Main circuit:		
Number of poles for main current circuit		3
Number of NC contacts for main contacts		0
Number of NO contacts for main contacts		3
Operating voltage		

 at AC-3 Rated value maximum 	V	690
Operating current		
• at AC-1		
 — at 400 V at ambient temperature 40 °C Rated value 	Α	22
 up to 690 V at ambient temperature 40 °C Rated value 	Α	22
— up to 690 V at ambient temperature 60 °C Rated value	Α	20
• at AC-2 at 400 V Rated value	Α	12
• at AC-3		
— at 400 V Rated value	Α	12
— at 500 V Rated value	Α	9.2
— at 690 V Rated value	Α	6.7
• at AC-4 at 400 V Rated value	Α	8.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.1
— at 220 V Rated value	Α	0.8
— at 440 V Rated value	Α	0.6
— at 600 V Rated value	Α	0.6
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	0.1
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	12
— at 220 V Rated value	Α	1.6
— at 440 V Rated value	Α	0.8
— at 600 V Rated value	Α	0.7
• at DC-3 at DC-5		
— at 110 V Rated value	Α	0.35
— at 24 V Rated value	Α	20
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	20
— at 440 V Rated value	Α	1.3
— at 600 V Rated value	Α	1

• at DC-3 at DC-5		
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	1.5
— at 24 V Rated value	Α	20
— at 440 V Rated value	Α	0.2
— at 600 V Rated value	Α	0.2
Operating power		
• at AC-1 at 400 V Rated value	kW	13
• at AC-2 at 400 V Rated value	kW	5.5
• at AC-4 at 400 V Rated value	kW	4
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	7.5
— at 230 V Rated value	kW	7.5
— at 400 V at 60 °C Rated value	kW	13
— at 690 V at 60 °C Rated value	kW	22
— at 690 V Rated value	kW	22
• at AC-3		
— at 230 V Rated value	kW	3
— at 400 V Rated value	kW	5.5
— at 690 V Rated value	kW	5.5
Operating power for ≥ 200000 operating cycles at	_	
AC-4		
• at 400 V Rated value	kW	2
• at 690 V Rated value	kW	2.5
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage for DC		
Rated value	V	24
Operating range factor control supply voltage rated value of the magnet coil for DC		0.8 1.1
Design of the surge suppressor		with diode
Closing power of the magnet coil for DC	W	4
Holding power of the magnet coil for DC	W	4
Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		
— instantaneous contact		2
Number of NO contacts		

Operating current at AC-15 ● at 230 V Rated value	• for auxiliary contacts		
Operating current at AC-15	— instantaneous contact		2
at 230 V Rated value at 400 V Rated value at 690 V Rated value at 100-12 at 125 V Rated value at DC-12 at 125 V Rated value at DC-12 at 220 V Rated value at DC-12 at 220 V Rated value at DC-13 at 125 V Rated value at DC-13 at 200 V Rated value at DC-13 at 600 V Rated value at DC-13 at 600 V Rated value at DC-12 at 60 V Rated value at DC-13 at 24 V Rated value at 10 V Rated value at 60 V Rated value at 10 V Rated value at 60 V Rated value at 600 V Rated valu	Product expansion Auxiliary switch		No
at 400 V Rated value at 690 V Rated value A 1 Operating current at DC-12 at 125 V Rated value A 2 at DC-12 at 125 V Rated value A 1 A 1 A 2 at DC-12 at 125 V Rated value A 0.15 at DC-13 at 125 V Rated value A 0.9 at DC-13 at 125 V Rated value A 0.9 at DC-13 at 125 V Rated value A 0.3 at DC-13 at 220 V Rated value A 0.1 Operating current at DC-13 at 600 V Rated value A 0.1 Operating current at DC-12 — at 60 V Rated value A 6 — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 10 V Rated value — at 110 V Rated value • at 480 V Rated value • at 480 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at 576/600 V Rated value • for three-phase AC motor at	Operating current at AC-15		
• at 690 V Rated value Operating current • at DC-12 at 125 V Rated value • at DC-12 at 600 V Rated value • at DC-13 at 125 V Rated value • at DC-13 at 200 V Rated value • at DC-13 at 600 V Rated value • at DC-12 — at 60 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at 10 V Rated value — at 110 V Rated value — at 100 V Rated value — at 110 V Rated value — at 110 V Rated value — at 100 V Rated value — at 110 V Rated value — at 110 V Rated value — at 100 V Rated value — at 100 V Rated value — at 100 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value	• at 230 V Rated value	Α	6
Operating current	• at 400 V Rated value	Α	3
at DC-12 at 125 V Rated value at DC-12 at 220 V Rated value at DC-12 at 220 V Rated value at DC-13 at 125 V Rated value at DC-13 at 125 V Rated value at DC-13 at 125 V Rated value at DC-13 at 220 V Rated value at DC-13 at 220 V Rated value at DC-13 at 200 V Rated value at DC-13 at 200 V Rated value at DC-12 — at 60 V Rated value — at 110 V Rated value — at 10 V Rated value — at 24 V Rated value — at 10 V Rated value — at 10 V Rated value — at 110 V Rated value — at 60 V Rated value — at 110 V Rated value — at 60 V Rated value — at 60 V Rated value — at 110 V Rated value — at 60	● at 690 V Rated value	Α	1
• at DC-12 at 220 V Rated value	Operating current		
at DC-12 at 600 V Rated value at DC-13 at 125 V Rated value at DC-13 at 125 V Rated value at DC-13 at 220 V Rated value at DC-13 at 600 V Rated value at DC-13 at 600 V Rated value at DC-12 at 60 V Rated value at DC-12 at 60 V Rated value at DC-13 at 10 V Rated value at DC-13 at 60 V Rated value at 10 V Rated value at 110 V Rated value at 10 V Rated value A 1 Contact reliability of the auxiliary contacts ILICSA ratings: Full-load current (FLA) for three-phase AC motor at 480 V Rated value at 600 V Rated value at	• at DC-12 at 125 V Rated value	Α	2
at DC-13 at 125 V Rated value at DC-13 at 220 V Rated value at DC-13 at 600 V Rated value at DC-13 at 600 V Rated value at DC-12 — at 60 V Rated value — at 110 V Rated value — at 110 V Rated value — at 60 V Rated value — at 60 V Rated value — at 60 V Rated value — at 10 V Rated value — at 60 V Rated value — at 60 V Rated value — at 60 V Rated value — at 10 V Rated value — at 60 V Rated value — at 10 V Rated value — at 110 V Rated value — at 60 V Rated value — at 70 for single-phase AC motor at 110/120 V Rated value — at 60 V Rated value	• at DC-12 at 220 V Rated value	Α	1
at DC-13 at 220 V Rated value at DC-13 at 600 V Rated value A 0.1 Operating current at DC-12 — at 60 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 60 V Rated value — at 110 V Rated value A 1 Contact reliability of the auxiliary contacts IL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 230 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric value	• at DC-12 at 600 V Rated value	Α	0.15
at DC-13 at 600 V Rated value Operating current at DC-12 — at 60 V Rated value — at 110 V Rated value A	• at DC-13 at 125 V Rated value	Α	0.9
Operating current • at DC-12 — at 60 V Rated value A	• at DC-13 at 220 V Rated value	Α	0.3
at DC-12 — at 60 V Rated value — at 110 V Rated value — at 24 V Rated value — at 60 V Rated value — at 60 V Rated value — at 60 V Rated value — at 110 V Rated value — at 480 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575	• at DC-13 at 600 V Rated value	Α	0.1
- at 60 V Rated value - at 110 V Rated value A 3 • at DC-13 - at 24 V Rated value A 6 - at 60 V Rated value A 1 Contact reliability of the auxiliary contacts Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA) Taulty switching per 100 million (17 V, 1 mA)	Operating current		
- at 110 V Rated value • at DC-13 - at 24 V Rated value - at 60 V Rated value - at 110 V Rated value A 2 - at 110 V Rated value A 1 Contact reliability of the auxiliary contacts L/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp	• at DC-12		
at DC-13 — at 24 V Rated value — at 60 V Rated value A A 1 Contact reliability of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) IL/CSA ratings: Full-load current (FLA) for three-phase AC motor at 480 V Rated value A 11 yielded mechanical performance [hp] for single-phase AC motor at 110/120 V Rated value for single-phase AC motor at 230 V Rated value for three-phase AC motor at 200/208 V Rated value for three-phase AC motor at 220/230 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric hp	— at 60 V Rated value	Α	6
- at 24 V Rated value - at 60 V Rated value A 2 - at 110 V Rated value A 1 Contact reliability of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) IL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value A 11 • at 600 V Rated value A 11 yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated metric lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp • for three-phase AC motor at 575/600 V Rated lp	— at 110 V Rated value	Α	3
— at 110 V Rated value — at 110 V Rated value A 1 Contact reliability of the auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) IL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value A 11 • at 600 V Rated value A 11 Vielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Rated value hp • for single-phase AC motor at 230 V Rated metric value hp • for three-phase AC motor at 200/208 V Rated metric value hp • for three-phase AC motor at 220/230 V Rated metric value • for three-phase AC motor at 460/480 V Rated metric value • for three-phase AC motor at 460/480 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric value • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp	• at DC-13		
— at 110 V Rated value Contact reliability of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) L/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric	— at 24 V Rated value	Α	6
Contact reliability of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) L/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric	— at 60 V Rated value	Α	2
Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated metric hp 7.5 hp	— at 110 V Rated value	Α	1
Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric	Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric • for three-phase AC motor at 575/600 V Rated metric	UL/CSA ratings:		
at 1600 V Rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V Rated value for single-phase AC motor at 230 V Rated value for three-phase AC motor at 200/208 V Rated value for three-phase AC motor at 220/230 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated	Full-load current (FLA) for three-phase AC motor		
yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated hp • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated hp • for three-phase AC motor at 220/230 V Rated wetric value • for three-phase AC motor at 460/480 V Rated hp • for three-phase AC motor at 575/600 V Rated wetric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp	● at 480 V Rated value	Α	11
 for single-phase AC motor at 110/120 V Rated value for single-phase AC motor at 230 V Rated value for three-phase AC motor at 200/208 V Rated value for three-phase AC motor at 220/230 V Rated value for three-phase AC motor at 220/230 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric 	• at 600 V Rated value	Α	11
value • for single-phase AC motor at 230 V Rated metric hp • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated hp • for three-phase AC motor at 220/230 V Rated hp • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 460/480 V Rated hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric 10	yielded mechanical performance [hp]		
value hp • for three-phase AC motor at 200/208 V Rated value hp • for three-phase AC motor at 220/230 V Rated hp • for three-phase AC motor at 460/480 V Rated hp • for three-phase AC motor at 460/480 V Rated hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric 10	• .		0.5
 for three-phase AC motor at 200/208 V Rated value for three-phase AC motor at 220/230 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric 10 	• for single-phase AC motor at 230 V Rated	metric	2
 for three-phase AC motor at 220/230 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 575/600 V Rated metric for three-phase AC motor at 575/600 V Rated metric 	value	hp	
 for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 575/600 V Rated metric hp for three-phase AC motor at 575/600 V Rated metric 10 	• for three-phase AC motor at 200/208 V Rated	metric	3
• for three-phase AC motor at 575/600 V Rated metric 10	 for three-phase AC motor at 200/208 V Rated value for three-phase AC motor at 220/230 V Rated 	metric hp metric	
· ·	 for three-phase AC motor at 200/208 V Rated value for three-phase AC motor at 220/230 V Rated value for three-phase AC motor at 460/480 V Rated 	metric hp metric hp metric	3
Contact rating of the auxiliary contacts acc. to UL A600 / Q600	 for three-phase AC motor at 200/208 V Rated value for three-phase AC motor at 220/230 V Rated value for three-phase AC motor at 460/480 V Rated value for three-phase AC motor at 575/600 V Rated 	metric hp metric hp metric hp metric	3 7.5

Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of assignment 1 required
 - with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A

fuse gL/gG: 10 A

Installation/ mounting/ dimensions:		
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 50022
 Side-by-side mounting 		Yes
Height	mm	57.5
Width	mm	45
Depth	mm	117
Required spacing		
with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	6
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
	mm	6
— downwards — at the side		

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-section

• for main 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)
 for AWG conductors for main contacts 	2x (20 16), 2x (18 14), 2x 12
• 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)
• for AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12

Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
	_	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	FIT	100
31920		
Product function Mirror contact acc. to IEC 60947-4-1		Yes
T1 value for proof test interval or service life acc. to	у	20
IEC 61508		
Protection against electrical shock	-	finger-safe
Mechanical data:		
Size of contactor		S00
Ambient conditions:		
Ambient conditions:		0.000
Installation altitude at height above sea level	m	2 000
Installation altitude at height above sea level maximum	m	2 000
Installation altitude at height above sea level	m	2 000
Installation altitude at height above sea level maximum	m °C	2 000 -25 +60
Installation altitude at height above sea level maximum Ambient temperature		

Certificates/ approvals:

General Product Approval Functional Declaration of Safety/Safety Conformity Certificates







Type Examination



Special Test Certificate

Shipping Approval









GL





Shipping Approval

other





Confirmation

Environmental Confirmations



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

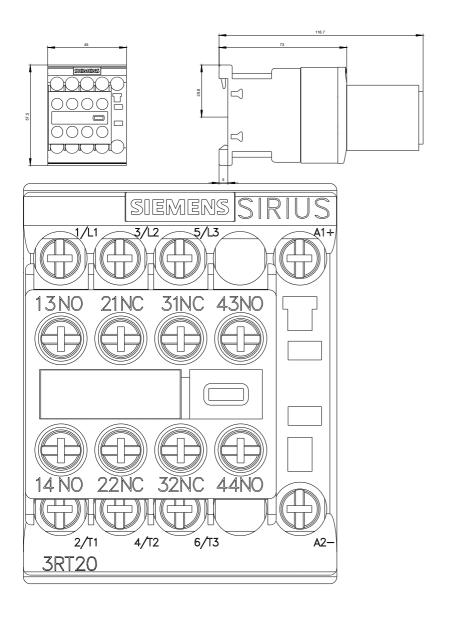
http://www.siemens.com/industrymall

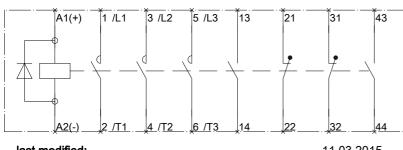
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20171FB443MA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20171FB443MA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20171FB443MA0&lang=en





last modified: 11.03.2015