SIEMENS

Data sheet

3RT2038-3NB30-0CC0



CONTACTOR,AC3:37KW/400V, 1NO+1NC, 20-33VAC/DC, COM.CAP. WITH VARISTOR, 3-POLE, SIZE S2, SPRING-TYPE TERMINAL

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-		5 000 000	
compatible auxiliary switch block typical			
 of the contactor with added auxiliary switch 		10 000 000	
block typical			
Thermal short-time current restricted to 10 s	А	640	
Protection class IP			
• on the front		IP20	
• of the terminal		IP00	
Equipment marking			
• acc. to DIN EN 61346-2		Q	
• acc. to DIN EN 81346-2		Q	
Aain 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	

V	690
A	90
A	90
A	80
А	80
А	80
A	80
А	58
А	55
А	75
А	4.5
А	2
А	0.4
А	0.25
А	35
А	2.5
А	2
А	0.1
А	0.06
А	75
А	45
А	5
А	1
А	0.8
А	25
A	5
А	55
А	0.27
	A A A A A A A A A A A A A A A A A A A

• at DC-1		
— at 24 V Rated value	A	55
— at 110 V Rated value	A	45
— at 220 V Rated value	A	45
— at 440 V Rated value	А	2.9
— at 600 V Rated value	А	1.4
• at DC-3 at DC-5		
— at 110 V Rated value	А	45
— at 220 V Rated value	А	25
— at 24 V Rated value	А	55
— at 440 V Rated value	А	0.6
— at 600 V Rated value	А	0.6
Operating power		
• at AC-1 at 400 V Rated value	kW	59
 at AC-2 at 400 V Rated value 	kW	37
• at AC-4 at 400 V Rated value	kW	30
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	28
— at 230 V Rated value	kW	34
— at 400 V at 60 °C Rated value	kW	49
— at 690 V at 60 °C Rated value	kW	85
— at 690 V Rated value	kW	102
• at AC-3		
— at 230 V Rated value	kW	22
— at 400 V Rated value	kW	37
— at 500 V Rated value	kW	37
— at 690 V Rated value	kW	45
Operating power for \geq 200000 operating cycles at		
AC-4	1.1.4	15.0
• at 400 V Rated value	kW	15.8
• at 690 V Rated value	kW	21.8
Operating frequency		500
• at AC-3 maximum	1/h	500
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
● at 50 Hz Rated value	V	20 33
● at 60 Hz Rated value	V	20 33
Control supply voltage for DC		
Rated value	V	20 33

Operating range factor control supply voltage rated value of the magnet coil with AC		
• at 50 Hz		0.8 1.1
• at 60 Hz		0.8 1.1
Operating range factor control supply voltage rated		0.8 1.1
value of the magnet coil for DC		
Design of the surge suppressor		with varistor
Closing power of the magnet coil for DC	W	23
Holding power of the magnet coil for DC	W	1
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
— instantaneous contact		1
Number of NO contacts		
 for auxiliary contacts 		
— instantaneous contact		1
Product expansion Auxiliary switch		Yes
Operating current at AC-15		
• at 230 V Rated value	А	10
• at 400 V Rated value	А	3
• at 690 V Rated value	А	1
Operating current		
• at DC-12 at 125 V Rated value	А	2
 at DC-12 at 220 V Rated value 	А	1
• at DC-12 at 600 V Rated value	А	0.15
 at DC-13 at 125 V Rated value 	А	0.9
 at DC-13 at 220 V Rated value 	А	0.3
• at DC-13 at 600 V Rated value	А	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	А	6
— at 110 V Rated value	А	3
• at DC-13		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	2
— at 110 V Rated value	А	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	А	65
• at 600 V Rated value	А	62

yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated	metric	5
value	hp	
 for single-phase AC motor at 230 V Rated 	metric	15
value	hp	
• for three-phase AC motor at 200/208 V Rated	metric	20
value	hp	05
 for three-phase AC motor at 220/230 V Rated value 	metric hp	25
 for three-phase AC motor at 460/480 V Rated 	metric	50
value	hp	
• for three-phase AC motor at 575/600 V Rated	metric	60
value	hp	
Contact rating of the auxiliary contacts acc. to UL	-	A600 / P600
hort arouit		
Short-circuit: Design of the fuse link		
for short-circuit protection of the main circuit		
— with type of assignment 1 required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A
— with type of assignment 2 required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
 for short-circuit protection of the auxiliary switch 		fuse gL/gG: 10 A
required		
·		
nstallation/ mounting/ dimensions:	_	1/ 400° relation acceptible on vertical requirties
nstallation/ mounting/ dimensions: mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
		surface; can be tilted forward and backward by +/-
mounting position		surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard
mounting position Mounting type	mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
mounting position Mounting type • Side-by-side mounting	mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes
mounting position Mounting type • Side-by-side mounting Height	-	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4
mounting position Mounting type • Side-by-side mounting Height Width	mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55
mounting position Mounting type • Side-by-side mounting Height Width Depth	mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing	mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting	mm mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55 130
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards	mm mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55 130
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting	mm mm mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55 130 0 0
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting	mm mm mm mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55 130 0 0 0
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting	mm mm mm mm mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55 130 0 0 0 0
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting	mm mm mm mm mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55 130 0 0 0 0
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — forwards — Backwards — upwards — upwards — downwards — at the side • for grounded parts	mm mm mm mm mm mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55 130 0 0 0 0 0
mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — backwards — backwards — upwards — downwards — at the side • for grounded parts — forwards	mm mm mm mm mm mm	surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 113.4 55 130 0 0 0 0 0 0 0

— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	6
Connections/ Terminals:		
Type of electrical connection		
 for main current circuit 		screw-type terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 		2x (1 25 mm²), 1x (1 35 mm²)
 for AWG conductors for main contacts 		2x (18 2), 1x (18 1)
 for auxiliary contacts 		
— single or multi-stranded		2x (0,5 2,5 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²)
— finely stranded without core end		2x (0.5 2.5 mm²)
processing		
 for AWG conductors for auxiliary contacts 		2x (20 14)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	40
• at 60 Hz	V·A	40
Safety related data:		
Proportion of dangerous failures		
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	73
Product function Mirror contact acc. to IEC 60947-4-1		Yes
Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529
Mechanical data:		
Size of contactor		S2
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature	°C	25 +60
during operation	°C	-25 +60
 during storage 	°C	-55 +80

Certificates/ approvals: General Product Approval other Image: Colspan="3">EFRE Image: Colspan="3">Environmental Confirmations

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

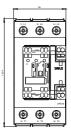
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

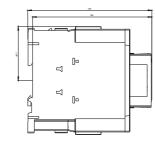
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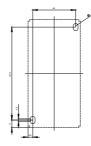
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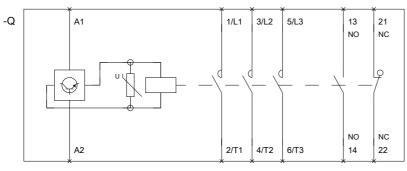
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20383NB300CC0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20383NB300CC0&lang=en









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