SIEMENS

Data sheet

3RT2026-2NB30



CONTACTOR, AC-3, 11KW/400V, 1NO+1NC, AC(50-60HZ)/DC ACTUAT. AC/DC 21...28V, 3-POLE, SZ S0 SPRING-LOADED 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	200		
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 $^\circ\mathrm{C}$	А	40
Rated value		
— up to 690 V at ambient temperature 40 °C	А	40
Rated value		25
— up to 690 V at ambient temperature 60 °C Rated value	A	35
• at AC-2 at 400 V Rated value	А	25
● at AC-3		
— at 400 V Rated value	А	25
— at 500 V Rated value	А	18
— at 690 V Rated value	А	13
• at AC-4 at 400 V Rated value	А	15.5
Operating current with 1 current path		
● at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	4.5
— at 220 V Rated value	А	1
— at 440 V Rated value	А	0.4
— at 600 V Rated value	А	0.25
• at DC-3 at DC-5		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	2.5
— at 220 V Rated value	А	1
— at 440 V Rated value	А	0.09
— at 600 V Rated value	А	0.06
Operating current with 2 current paths in series		
● at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	35
— at 220 V Rated value	А	5
— at 440 V Rated value	А	1
— at 600 V Rated value	А	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	А	15
— at 220 V Rated value	А	3
— at 24 V Rated value	А	35
— at 440 V Rated value	А	0.27
— at 600 V Rated value	А	0.16
Operating current with 3 current paths in series		

— at 440 V Rated value	A A	2.9
— at 600 V Rated value	A	1.4
• at DC-3 at DC-5		
— at 110 V Rated value	A	35
— at 220 V Rated value	A	10
— at 24 V Rated value	A	35
— at 440 V Rated value	A	0.6
— at 600 V Rated value	A	0.6
Operating power		
• at AC-1 at 400 V Rated value	kW	23
• at AC-2 at 400 V Rated value	kW	11
• at AC-4 at 400 V Rated value	kW	7.5
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	13.3
— at 230 V Rated value	kW	13.3
— at 400 V at 60 °C Rated value	kW	23
— at 690 V at 60 °C Rated value	kW	40
— at 690 V Rated value	kW	40
• at AC-3		
— at 230 V Rated value	kW	5.5
— at 400 V Rated value	kW	11
— at 690 V Rated value	kW	11
Operating power for \geq 200000 operating cycles at AC-4		
• at 400 V Rated value	kW	4.4
• at 690 V Rated value	kW	7.7
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		24
• at 50 Hz Rated value	V	24
• at 50 Hz Rated value	V	21 28
 at 60 Hz Rated value 	V	24

Rated value	V	21 28
Operating range factor control supply voltage rated	-	
value of the magnet coil with AC		
• at 50 Hz		0.7 1.3
• at 60 Hz		0.7 1.3
Operating range factor control supply voltage rated	-	0.7 1.3
value of the magnet coil for DC		
Design of the surge suppressor		with varistor
Closing power of the magnet coil for DC	W	5.9
Holding power of the magnet coil for DC	W	1.4
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	A	10
• at 400 V Rated value	A	3
• at 690 V Rated value	A	1
Operating current		
• at DC-12 at 125 V Rated value	A	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	21

• at 600 V Rated value	А	22			
yielded mechanical performance [hp]					
 for single-phase AC motor at 110/120 V Rated 	metric	2			
value	hp				
 for single-phase AC motor at 230 V Rated value 	metric hp	3			
 for three-phase AC motor at 200/208 V Rated 	metric	5			
value	hp	5			
 for three-phase AC motor at 220/230 V Rated 	metric	7.5			
value	hp				
• for three-phase AC motor at 460/480 V Rated	metric	15			
value	hp				
• for three-phase AC motor at 575/600 V Rated	metric	20			
	hp	1000 / 0000			
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600			
Short-circuit:					
Design of the fuse link					
 for short-circuit protection of the main circuit 					
 — with type of assignment 1 required 		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A			
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5S 35 A			
 for short-circuit protection of the auxiliary switch required 		fuse gL/gG: 10 A			
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			
mounting position Mounting type		surface; can be tilted forward and backward by +/-			
		surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard			
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			
• 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 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 102			
• 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 102 45			
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 102 45			
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 102 45			
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 102 45 107			
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 102 45 107			
Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards	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 102 45 107 0			
Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards	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 102 45 107 0 0			
Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	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 102 45 107 0 0 0 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
— at the side	mm	6

Connections/ Terminals:

Type of electrical connection		
 for main current circuit 		spring-loaded 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 10 mm²)
— finely stranded with core end processing		2x (1 6 mm²)
 finely stranded without core end processing 		2x (1 6 mm²)
 for AWG conductors for main contacts 		2x (18 8)
 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 processing 		2x (0.5 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 14)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	6.5
Safety 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	FIT	100
Product function Mirror contact acc. to IEC 60947-4-1		Yes
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe
Mechanical data:		

Size of contactor				S0		
Ambient conditions:						
Installation altitude a maximum	t height above sea l	evel	m	2 000		
Ambient temperature	•					
 during operation 	n		°C	-25 +60		
 during storage 			°C	-55 +80		
Certificates/ approva	als:					
General Product	Approval				EMC	Functional Safety/Safety of Machinery
	CSA		E	AC	Стіск	Type Examination
Declaration of Conformity	Test Certificates	3			Shipping App	roval
EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>	Special Te Certificate		<u>other</u>	ABS	BUREAU VERITAS
Shipping Approv	val					
	GL	Lloyd's Register LRS		PRS	RINA	RMRS
other						
Confirmation	Environmental Confirmations	VDE				
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