SIEMENS

Data sheet

3RT2536-1NP30



2NO+2NC CONTACTOR,AC3:22KW 175-280V AC/DC,VARISTOR, 4-POLE, 2NO+2NC, SIZE S2, SCREW TERMINAL 1NO+1NC INTEGRATED

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	420
Protection class IP	_	
• on the front		IP20
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q
<i>I</i> lain circuit:		
Number of poles for main current circuit		4
Number of NC contacts for main contacts		2
Number of NO contacts for main contacts		2
Operating current		
● at AC-1		

— up to 690 V at ambient temperature 40 °C Rated value	А	70
— up to 690 V at ambient temperature 60 °C	А	60
Rated value • at AC-2 at AC-3 at 400 V		
	А	41
— per NO contact Rated value	A	41
— per NC contact Rated value Operating current with 1 current path	~	+ 1
• at DC-1		
— at 24 V Rated value	А	60
— at 110 V Rated value	A	4.5
— at 220 V Rated value	A	1
— at 440 V Rated value	A	0.4
• at DC-3 at DC-5	~	0.4
	А	35
— at 24 V per NC contact Rated value		35
— at 24 V per NO contact Rated value	A	2.5
— at 110 V per NC contact Rated value	A	2.5
— at 110 V per NO contact Rated value	A	
— at 220 V per NC contact Rated value	A	1
— at 220 V per NO contact Rated value	A	1
— at 440 V per NC contact Rated value	A	0.1
— at 440 V per NO contact Rated value	A	0.1
Operating current with 2 current paths in series		
• at DC-1	٨	
— at 24 V Rated value	A	55
— at 110 V Rated value	A	45
— at 220 V Rated value	A	5
— at 440 V Rated value	A	1
• at DC-3 at DC-5		
— at 110 V per NC contact Rated value	A	25
— at 110 V per NO contact Rated value	A	25
— at 220 V per NC contact Rated value	A	5
— at 220 V per NO contact Rated value	A	5
— at 24 V per NC contact Rated value	A	55
— at 24 V per NO contact Rated value	A	55
— at 440 V per NC contact Rated value	A	0.27
— at 440 V per NO contact Rated value	A	0.27
Operating power		46
at AC-1 at 400 V Rated value	kW	46
Operating power		
• at AC-1	k\0/	26
— at 230 V Rated value	kW	26

• at AC-2 at AC-3		
— at 230 V per NC contact Rated value	kW	15
— at 230 V per NO contact Rated value	kW	15
— at 400 V per NC contact Rated value	kW	22
— at 400 V per NO contact Rated value	kW	22

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC	_	
• at 50 Hz Rated value	V	175 280
• at 60 Hz Rated value	V	175 280
Control supply voltage for DC		
Rated value	V	175 280
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 value of the magnet coil for DC	_	0.8 1.1
Design of the surge suppressor	_	with varistor
Apparent pick-up power of the magnet coil with AC	V·A	110
Apparent holding power of the magnet coil with AC	V·A	2
Closing power of the magnet coil for DC	W	70
Holding power of the magnet coil for DC	W	1.5
Inductive power factor		
 with closing power of the coil 		0.72
 with the holding power of the coil 		1
Control version of the switch operating mechanism		UC
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	6
• at 400 V Rated value	А	3
• at 690 V Rated value	А	1

Operating currentImage: Compared with the second secon

• at DC-12 at 600 V Rated valueA0.15• at DC-13 at 125 V Rated valueA0.9• at DC-13 at 220 V Rated valueA0.3• at DC-13 at 600 V Rated valueA0.1Operating current	
 at DC-13 at 220 V Rated value at DC-13 at 600 V Rated value A 0.3 A 0.1 	
• 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 A 3	
• at DC-13	
— at 24 V Rated value A 10	
- 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))
UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL A600 / P600	
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 	· 160 A
	. 00 A
for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A	
Installation/ mounting/ dimensions:	
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward b 22.5° on vertical mounting surface	
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward be	oy +/-
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward be 22.5° on vertical mounting surface Mounting type screw and snap-on mounting onto 35 mm state	oy +/-
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward be 22.5° on vertical mounting surface Mounting type screw and snap-on mounting onto 35 mm state mounting rail according to DIN EN 50022	oy +/-
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward be 22.5° on vertical mounting surface Mounting type screw and snap-on mounting onto 35 mm state mounting rail according to DIN EN 50022 • Side-by-side mounting Yes	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward be 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm state mounting rail according to DIN EN 50022• Side-by-side mountingmm114Widthmm75Depthmm130	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward b 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm sta mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmm114Widthmm75	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward be 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm state mounting rail according to DIN EN 50022• Side-by-side mountingmm114Widthmm75Depthmm130	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward b 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm sta mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmm114Widthmm75Depthmm130	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward b 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm sta mounting rail according to DIN EN 50022• Side-by-side mountingmm114Widthmm75Depthmm130Required spacing • with side-by-side mountingmultiple	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward b 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm state mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmm114Widthmm75Depthmm130Required spacing - forwardsmm0	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward b 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm sta mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmm114Widthmm75Depthmm130Required spacing - forwardsmm0- Backwardsmm0	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward be 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm state mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmm114Widthmm75Depthmm130Required spacing - forwards - Backwards - upwardsmm0	oy +/-
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward be 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm state mounting rail according to DIN EN 50022• Side-by-side mountingrmm114Widthmm75Depthmm130Required spacing - forwardsmm0- Backwardsmm0- upwardsmm0- downwardsmm0	oy +/-

mm	0
mm	50
mm	10
mm	50
mm	0
mm	0
mm	50
mm	50
mm	10
	mm mm mm mm mm

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 		
— solid		2x (1 35 mm²), 1x (1 50 mm²)
— 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 		
— solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— single or multi-stranded		2x (0,5 1,5 mm²), 2x (0,75 2,5 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)
Apparent pick-up power of the magnet coil with AC		
• at 50 Hz	V·A	110
• at 60 Hz	V·A	110

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	FIT	100
31920		
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			
 during operation 	°C	-40 +70	
• during storage	°C	-55 +80	

Certificates/ approvals:

General Product Approval







Environmental Confirmations

other

Further information

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

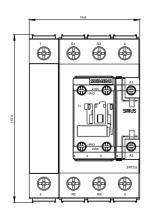
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

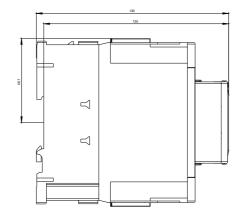
Cax online generator

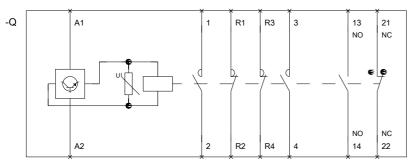
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT25361NP30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT25361NP30/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=3RT25361NP30&lang=en







last modified:

11.03.2015