# **SIEMENS**

## Data sheet

## 3RT2536-1NB30



2NO+2NC CONTACTOR,AC3:22KW 20-33V AC/DC,VARISTOR, 4-POLE, 2NO+2NC, SIZE S2, SCREW TERMINAL 1NO+1NC INTEGRATED

Figure similar	_	
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)		
<ul> <li>of the contactor typical</li> </ul>		10 000 000
<ul> <li>of the contactor with added electronics-</li> </ul>		5 000 000
compatible auxiliary switch block typical		
<ul> <li>of the contactor with added auxiliary switch</li> </ul>		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
Aain 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 $^\circ \mathrm{C}$	А	60
Rated value		
• at AC-2 at AC-3 at 400 V	٨	41
— per NO contact Rated value	A	
— per NC contact Rated value	A	41
Operating current with 1 current path		
• at DC-1	•	<b>CO</b>
— at 24 V Rated value	A	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		
— at 24 V per NC contact Rated value	A	35
— at 24 V per NO contact Rated value	A	35
— at 110 V per NC contact Rated value	A	2.5
— at 110 V per NO contact Rated value	A	2.5
— at 220 V per NC contact Rated value	А	1
— at 220 V per NO contact Rated value	А	1
— at 440 V per NC contact Rated value	А	0.1
— at 440 V per NO contact Rated value	А	0.1
Operating current with 2 current paths in series		
● at DC-1		
— at 24 V Rated value	А	55
— at 110 V Rated value	А	45
— at 220 V Rated value	А	5
— at 440 V Rated value	А	1
• at DC-3 at DC-5		
— at 110 V per NC contact Rated value	А	25
— at 110 V per NO contact Rated value	А	25
— at 220 V per NC contact Rated value	А	5
— at 220 V per NO contact Rated value	А	5
— at 24 V per NC contact Rated value	А	55
— at 24 V per NO contact Rated value	А	55
— at 440 V per NC contact Rated value	А	0.27
— at 440 V per NO contact Rated value	А	0.27
Operating power		
• at AC-1 at 400 V Rated value	kW	46
Operating power		
• at AC-1		
— 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	20 33
at 50 Hz Rated value     at 60 Hz Rated value	v	20 33
Control supply voltage for DC	V	20 00
Rated value	V	20 33
• Rated value Operating range factor control supply voltage rated	V	20 33
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
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	_	
<ul> <li>with closing power of the coil</li> </ul>		0.72
<ul> <li>with the holding power of the coil</li> </ul>		1
Control version of the switch operating mechanism		UC
Auxiliary circuit:		
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		
— instantaneous contact		1
Number of NO contacts	-	
<ul> <li>for auxiliary contacts</li> </ul>		
— 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 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:		
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
— with type of assignment 2 required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>		fuse gL/gG: 10 A
required		
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	114
Width	mm	75
Depth	mm	130
Required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
<ul> <li>for grounded parts</li> </ul>		
<b>f</b>		
— forwards	mm	0

— Backwards	mm	0
— upwards	mm	50
— at the side	mm	10
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	10

## Connections/ Terminals:

	screw-type terminals
	screw-type terminals
_	
	2x (1 35 mm²), 1x (1 50 mm²)
	2x (1 35 mm²), 1x (1 50 mm²)
	2x (1 25 mm²), 1x (1 35 mm²)
	2x (18 2), 1x (18 1)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (20 16), 2x (18 14)
V·A	110
V·A	110

Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	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
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			
<ul> <li>during operation</li> </ul>	°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

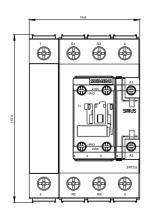
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

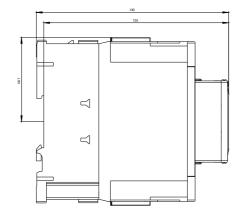
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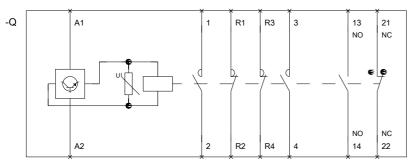
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT25361NB30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT25361NB30&lang=en







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