# SIEMENS

## Data sheet

## 3RT2026-2AP00



CONTACTOR, AC-3, 11KW/400V, 1NO+1NC, AC 230V 50HZ, 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)			
<ul> <li>of the contactor typical</li> </ul>		10 000 000	
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>		5 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>		10 000 000	
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	
/ain 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 DC-1         -																																																																																																															
- at 110 V Rated value         A         35           - at 220 V Rated value         A         35           - at 400 V Rated value         A         2.9           - at 600 V Rated value         A         14           • at DC-5         -         -           - at 100 V Rated value         A         35           - at 220 V Rated value         A         10           - at 240 V Rated value         A         35           - at 200 V Rated value         A         0.6           Operating power         -         -           - at 400 V Rated value         KW         23           - at 400 V Rated value         KW         11           - at 230 V at 60 'C Rated value         KW         13.3           - at 230 V at 60 'C Rated value         KW         23           - at 600 V Rated value         KW         40           - at 230 V at 60 'C Rated value         KW         13.3           - at 600 V Rated value         KW         40           - at 600 V Rated value         KW	• at DC-1																																																																																																														
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valueKW11Operating power for ≥ 20000 operating cycles at AC-4AC-4- at 690 V Rated valueKW4.4• at 690 V Rated valueKW7.7Operating frequency • at AC-3 maximum1/h750Control supply voltage of the control supply voltageACControl supply voltage with ACV230Operating range factor control supply voltage rated value of the magnet coll with ACV230</td><td>Operating power</td><td>_</td><td></td></tr> <tr><td>• at AC-4 at 400 V Rated valueKW7.5Operating power-• at AC-1 at 230 V at 60 °C Rated valueKW13.3- at 230 V Rated valueKW13.3- at 400 V at 60 °C Rated valueKW23- at 690 V Rated valueKW40- at 690 V Rated valueKW40- at 690 V Rated valueKW40- at 690 V Rated valueKW11- at 230 V Rated valueKW11- at 690 V Rated valueKW7.7Operating power for ≥ 200000 operating cycles at AC-4-• at 400 V Rated valueKW7.7Operating frequency• at AC-3 maximum1/h750Control circuit/ Control:Type of voltage of the control supply voltageACControl supply voltage with AC-230• at 50 Hz Rated valueV230Operating range factor control supply voltage ratedvalue of the magnet coil with AC</td><td>• at AC-1 at 400 V Rated value</td><td>kW</td><td>23</td></tr> <tr><td>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 230 V Rated value       KW       23         - at 690 V at 60 °C Rated value       KW       40         - at 690 V Rated °alue       KW       40         - at 690 V Rated °alue       KW       40         - at 690 V Rated value       KW       11         - at 230 V Rated value       KW       11         - at 690 V Rated value       KW       11         - at 690 V Rated value       KW       11         Operating power for ≥ 200000 operating cycles at AC-4       X-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 supply voltage of the control supply voltage       AC         Control supply voltage with AC       -       230         Operating range factor control</td><td>• at AC-2 at 400 V Rated value</td><td>kW</td><td>11</td></tr> <tr><td>• at AC-1Image: Network in the second s</td><td>• at AC-4 at 400 V Rated value</td><td>kW</td><td>7.5</td></tr> <tr><td> at 230 V at 60 °C Rated valueKW13.3 at 230 V Rated valueKW13.3 at 400 V at 60 °C Rated valueKW23 at 690 V Rated valueKW40 at 690 V Rated valueKW40 at 230 V Rated valueKW5.5 at 230 V Rated valueKW5.5 at 400 V Rated valueKW11 at 690 V Rated valueKW4.4 at 690 V Rated valueKW7.7Operating power for ≥ 200000 operating cycles at AC-4KW4.4 at 690 V Rated valueKW7.7Operating frequency  at AC-3 maximumJ/h750Control circuit/ Control:</td><td>Operating power</td><td>-</td><td></td></tr> <tr><td> at 230 V Rated valuekW13.3 at 400 V at 60 °C Rated valuekW23 at 690 V at 60 °C Rated valuekW40 at 690 V Rated valuekW40 at 690 V Rated valuekW55 at 230 V Rated valuekW5.5 at 400 V Rated valuekW11 at 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voltageACControl supply voltage with AC • at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with ACV230</td><td>— at 690 V at 60 °C Rated value</td><td>kW</td><td>40</td></tr> <tr><td>- at 230 V Rated valuekW5.5- at 400 V Rated valuekW11- at 690 V Rated valuekW11Operating power for ≥ 200000 operating cycles at AC-4KW4.4• at 400 V Rated valuekW4.4• at 690 V Rated valuekW7.7Operating frequency • at AC-3 maximum1/h750Control circuit/ Control:ACControl supply voltage with AC • at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with ACV230</td><td>— at 690 V Rated value</td><td>kW</td><td>40</td></tr> <tr><td> at 400 V Rated valuekW11 at 690 V Rated valuekW11Operating power for ≥ 200000 operating cycles at AC-4KW11• at 400 V Rated valuekW4.4• at 690 V Rated valuekW7.7Operating frequency • at AC-3 maximum1/h750Control circuit/ Control:XType of voltage of the control supply voltageACControl 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circuit/ Control:         Control circuit/ Control:         Type of voltage of the control supply voltage       AC         • at 50 Hz Rated value       V       230         Operating range factor control supply voltage rated value of the magnet coil with AC       Image: Control supply voltage rated value</td><td>— at 400 V Rated value</td><td>kW</td><td>11</td></tr> <tr><td>AC-4Image: constraint of the magnet coil with AC• at 400 V Rated valuekW4.4• at 400 V Rated valuekW7.7• at 690 V Rated valuekW7.7• at AC-3 maximum1/h750Control circuit/ Control:Image: control supply voltage• at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with ACImage: control supply voltage rated value</td><td>— at 690 V Rated value</td><td>kW</td><td>11</td></tr> <tr><td><ul> <li>at 690 V Rated value</li> <li>at 690 V Rated value</li> <li>KW</li> <li>7.7</li> <li>Operating frequency         <ul> <li>at AC-3 maximum</li> <li>1/h</li> <li>750</li> </ul> </li> <li>Control circuit/ Control:         <ul> <li>Control supply voltage of the control supply voltage</li> <li>AC</li> <li>Control supply voltage with AC</li> <li>at 50 Hz Rated value</li> <li>V</li> <li>230</li> </ul> </li> <li>Operating range factor control supply voltage rated value of the magnet coil with AC</li> </ul></td><td></td><td>_</td><td></td></tr> <tr><td>Operating frequency     1/h     750       • at AC-3 maximum     1/h     750       Control circuit/ Control:     AC       Type of voltage of the control supply voltage     AC       Control supply voltage with AC     V     230       • at 50 Hz Rated value     V     230</td><td>• at 400 V Rated value</td><td>kW</td><td>4.4</td></tr> <tr><td>• at AC-3 maximum1/h750Control circuit/ Control:ACType of voltage of the control supply voltageACControl supply voltage with ACAC• at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with ACV230</td><td>• at 690 V Rated value</td><td>kW</td><td>7.7</td></tr> <tr><td>Control circuit/ Control:       Type of voltage of the control supply voltage     AC       Control supply voltage with AC     V     230       Operating range factor control supply voltage rated value of the magnet coil with AC     V     230</td><td>Operating frequency</td><td></td><td></td></tr> <tr><td>Type of voltage of the control supply voltage       AC         Control supply voltage with AC       230         • at 50 Hz Rated value       V       230         Operating range factor control supply voltage rated value of the magnet coil with AC       Image: Control supply voltage rated value</td><td>• at AC-3 maximum</td><td>1/h</td><td>750</td></tr> <tr><td>Control supply voltage with AC     V     230       • at 50 Hz Rated value     V     230       Operating range factor control supply voltage rated value of the magnet coil with AC     V     230</td><td></td><td></td><td></td></tr> <tr><td>• at 50 Hz Rated value V 230 Operating range 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AC-4AC-4- at 690 V Rated valueKW4.4• at 690 V Rated valueKW7.7Operating frequency • at AC-3 maximum1/h750Control supply voltage of the control supply voltageACControl supply voltage with ACV230Operating range factor control supply voltage rated value of the magnet coll with ACV230	Operating power	_		• at AC-4 at 400 V Rated valueKW7.5Operating power-• at AC-1 at 230 V at 60 °C Rated valueKW13.3- at 230 V Rated valueKW13.3- at 400 V at 60 °C Rated valueKW23- at 690 V Rated valueKW40- at 690 V Rated valueKW40- at 690 V Rated valueKW40- at 690 V Rated valueKW11- at 230 V Rated valueKW11- at 690 V Rated valueKW7.7Operating power for ≥ 200000 operating cycles at AC-4-• at 400 V Rated valueKW7.7Operating frequency• at AC-3 maximum1/h750Control circuit/ Control:Type of voltage of the control supply voltageACControl supply voltage with AC-230• at 50 Hz Rated valueV230Operating range factor control supply voltage ratedvalue of the magnet coil with AC	• at AC-1 at 400 V Rated value	kW	23	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 230 V Rated value       KW       23         - at 690 V at 60 °C Rated value       KW       40         - at 690 V Rated °alue       KW       40         - at 690 V Rated °alue       KW       40         - at 690 V Rated value       KW       11         - at 230 V Rated value       KW       11         - at 690 V Rated value       KW       11         - at 690 V Rated value       KW       11         Operating power for ≥ 200000 operating cycles at AC-4       X-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 supply voltage of the control supply voltage       AC         Control supply voltage with AC       -       230         Operating range factor control	• at AC-2 at 400 V Rated value	kW	11	• at AC-1Image: Network in the second s	• at AC-4 at 400 V Rated value	kW	7.5	at 230 V at 60 °C Rated valueKW13.3 at 230 V Rated valueKW13.3 at 400 V at 60 °C Rated valueKW23 at 690 V Rated valueKW40 at 690 V Rated valueKW40 at 230 V Rated valueKW5.5 at 230 V Rated valueKW5.5 at 400 V Rated valueKW11 at 690 V Rated valueKW4.4 at 690 V Rated valueKW7.7Operating power for ≥ 200000 operating cycles at AC-4KW4.4 at 690 V Rated valueKW7.7Operating frequency at AC-3 maximumJ/h750Control circuit/ Control:	Operating power	-		at 230 V Rated valuekW13.3 at 400 V at 60 °C Rated valuekW23 at 690 V at 60 °C Rated valuekW40 at 690 V Rated valuekW40 at 690 V Rated valuekW55 at 230 V Rated valuekW5.5 at 400 V Rated valuekW11 at 690 V Rated valuekW7.7Operating power for ≥ 200000 operating cycles at AC-4	• at AC-1			at 400 V at 60 °C Rated valuekW23 at 690 V at 60 °C Rated valuekW40 at 690 V Rated valuekW40• at AC-3 at 230 V Rated valuekW5.5 at 400 V Rated valuekW11 at 690 V Rated 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value of the magnet coil with ACImage: control supply voltage rated value	— at 690 V Rated value	kW	11	<ul> <li>at 690 V Rated value</li> <li>at 690 V Rated value</li> <li>KW</li> <li>7.7</li> <li>Operating frequency         <ul> <li>at AC-3 maximum</li> <li>1/h</li> <li>750</li> </ul> </li> <li>Control circuit/ Control:         <ul> <li>Control supply voltage of the control supply voltage</li> <li>AC</li> <li>Control supply voltage with AC</li> <li>at 50 Hz Rated value</li> <li>V</li> <li>230</li> </ul> </li> <li>Operating range factor control supply voltage rated value of the magnet coil with AC</li> </ul>		_		Operating frequency     1/h     750       • at AC-3 maximum     1/h     750       Control circuit/ Control:     AC       Type of voltage of the control supply voltage     AC       Control supply voltage with AC     V     230       • at 50 Hz Rated value     V     230	• at 400 V Rated value	kW	4.4	• at AC-3 maximum1/h750Control circuit/ Control:ACType of voltage of the control 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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	10
• at 400 V Rated value	А	3
• at 690 V Rated value	А	1
Operating current	-	
<ul> <li>at DC-12 at 125 V Rated value</li> </ul>	А	2
<ul> <li>at DC-12 at 220 V Rated value</li> </ul>	А	1
• at DC-12 at 600 V Rated value	А	0.15
<ul> <li>at DC-13 at 125 V Rated value</li> </ul>	А	0.9
<ul> <li>at DC-13 at 220 V Rated value</li> </ul>	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]		
<ul> <li>for single-phase AC motor at 110/120 V Rated</li> </ul>	metric	2
value	hp	
<ul> <li>for single-phase AC motor at 230 V Rated</li> </ul>	metric	3
value	hp	
• for three-phase AC motor at 200/208 V Rated	metric	5
value	hp	
<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	7.5
● for three-phase AC motor at 460/480 V Rated	metric	15
value	hp	

<ul> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>	metric hp	20
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
— 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 5SE: 35 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>		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
<ul> <li>Side-by-side mounting</li> </ul>		Yes
Height	mm	102
Width	mm	45
Depth	mm	97
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
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	6
— downwards	mm	0
<ul> <li>for live parts</li> </ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
		0
— downwards — at the side	mm mm	6
Connections/ Terminals:		

Type of electrical connection		
<ul> <li>for main current circuit</li> </ul>		spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		spring-loaded terminals
Type of connectable conductor cross-section	-	
<ul> <li>for main contacts</li> </ul>		
— single or multi-stranded		2x (1 10 mm²)
— finely stranded with core end processing		2x (1 6 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>		2x (1 6 mm²)
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (18 8)
<ul> <li>for auxiliary contacts</li> </ul>		
— single or multi-stranded		2x (0,5 2,5 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>		2x (0.5 2.5 mm²)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 14)
Apparent pick-up power of the magnet coil with AC	-	
● at 50 Hz	V·A	77
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
<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
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe
/lechanical data:		
Size of contactor		SO
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		a
during operation	°C	-25 +60
during storage	°C	-55 +80
Certificates/ approvals:		

General Product	t Approval			EMC	Functional Safety/Safety of Machinery
	(SA) CSA	EHC		С-тіск	Type Examination
Declaration of Conformity	Test Certificate	S	Shipping App	proval	
EG-Konf.	Special Test Certificate	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS	B U R E A U V E R I T A S	ĴÅ DNV DNV
Shipping Approv	/al				other
Shipping Approv	LRS	PRS	RINA	RMRS	Confirmation
GL	Lloyd's Register	PRS	RINA	RMRS	

### 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=3RT20262AP00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20262AP00/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=3RT20262AP00&lang=en





