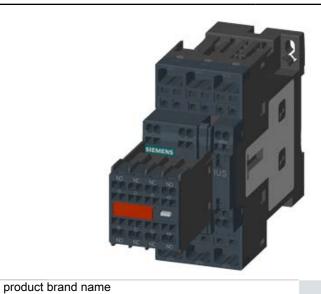
SIEMENS

Data sheet

3RT2026-2FB44-3MA0



CONTACTOR, AC-3, 11KW/400V, 2NO+2NC, DC 24V, W. PLUGGED-IN DIODE ASSEMBLIES 3-POLE, SZ S0 SPRING-LOADED TERMINAL PERMANENT AUX. SWITCH

product status trains			
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- compatible auxiliary switch block typical 		5 000 000	
 of the contactor with added auxiliary switch block typical 		10 000 000	
Thermal short-time current restricted to 10 s	Α	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	

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Operating voltage

Number of NO contacts for main contacts

3

 at AC-3 Rated value maximum 	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	Α	40
— up to 690 V at ambient temperature 40 °C Rated value	Α	40
— up to 690 V at ambient temperature 60 °C Rated value	Α	35
● at AC-2 at 400 V Rated value	Α	25
• at AC-3		
— at 400 V Rated value	Α	25
— at 500 V Rated value	Α	18
— at 690 V Rated value	Α	13
• at AC-4 at 400 V Rated value	Α	15.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	4.5
— at 220 V Rated value	Α	1
— at 440 V Rated value	Α	0.4
— at 600 V Rated value	Α	0.25
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.5
— at 220 V Rated value	Α	1
— at 440 V Rated value	Α	0.09
— at 600 V Rated value	Α	0.06
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	35
— at 220 V Rated value	Α	5
— at 440 V Rated value	Α	1
— at 600 V Rated value	Α	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	Α	15
— at 220 V Rated value	Α	3
— at 24 V Rated value	Α	35
— at 440 V Rated value	Α	0.27
— at 600 V Rated value	Α	0.16
Operating current with 3 current paths in series		

— at 440 V Rated value	Α	0.6
— at 440 V Rated value	Α	0.6
— at 600 V Rated value	Α	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 ≥ 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		DC
Control supply voltage for DC		
Rated value	V	24
Operating range factor control supply voltage rated		0.8 1.1
value of the magnet coil for DC		
Design of the surge suppressor		with diode assemblies
Closing power of the magnet coil for DC	W	5.9
Holding power of the magnet coil for DC	W	5.9

Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
— instantaneous contact		2
Number of NO contacts		
• for auxiliary contacts		
— instantaneous contact		2
Product expansion Auxiliary switch	_	No
Operating current at AC-15		
• at 230 V Rated value	Α	6
• at 400 V Rated value	Α	3
● at 690 V Rated value	Α	1
Operating current		
• at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 220 V Rated value	Α	1
• at DC-12 at 600 V Rated value	Α	0.15
• at DC-13 at 125 V Rated value	Α	0.9
• at DC-13 at 220 V Rated value	Α	0.3
• at DC-13 at 600 V Rated value	Α	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
● at DC-13		
— at 24 V Rated value	Α	6
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
III /CSA ratings:		
UL/CSA ratings: Full-load current (FLA) for three-phase AC motor		
at 480 V Rated value	Α	21
at 600 V Rated value	Α	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	metric	3
value	hp	
• for three-phase AC motor at 200/208 V Rated	metric	5
value	hp	
• 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 value 	metric hp	15
 for three-phase AC motor at 575/600 V Rated value 	metric hp	20
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

value	np	
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 5SE: 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 type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Side-by-side mounting		Yes
Height	mm	102
Width	mm	45
Depth	mm	154
Required spacing		
with side-by-side mounting		
— 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
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
•		

— downwards

0

mm

— at the side	mm	6
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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)
Cafati, valated data.		
Safety related data: B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		1 000 000
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
T1 value for proof test interval or service life acc. to	у	Yes 20
IEC 61508	у	
	у	
Protection against electrical shock	У	20
IEC 61508	У	20
Protection against electrical shock Mechanical data: Size of contactor	У	20 finger-safe
Protection against electrical shock Mechanical data: Size of contactor Ambient conditions:		20 finger-safe
Protection against electrical shock Mechanical data: Size of contactor	y m	20 finger-safe
Protection against electrical shock Mechanical data: Size of contactor Ambient conditions: Installation altitude at height above sea level		20 finger-safe
Protection against electrical shock Mechanical data: Size of contactor Ambient conditions: Installation altitude at height above sea level maximum		20 finger-safe

Certificates/ approvals:

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination

Declaration	of
Conformity	

Test Certificates **Shipping Approval**



Special Test Certificate









GL

Shipping Approval

other









Confirmation

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

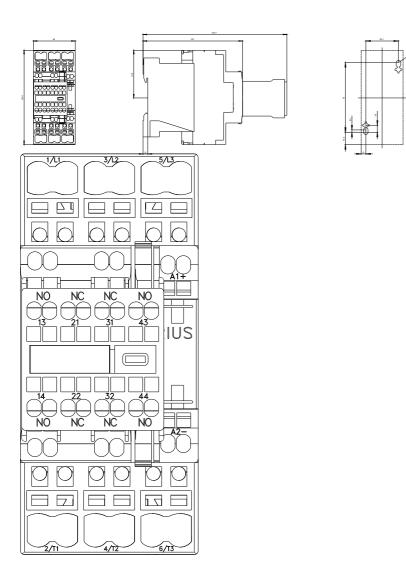
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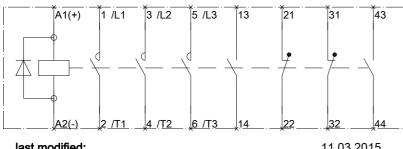
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT20262FB443MA0/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=3RT20262FB443MA0&lang=en





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