SIEMENS

Data sheet

3RT2015-2VB42



power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 24 V DC 0.85-1.85* US, with diode integrated, 3-pole, size S00, spring-type terminal not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
 auxiliary switch 	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	1.6 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3

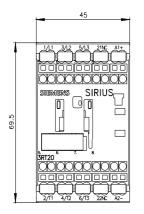
operating voltage	220.)/
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	18 A
• at AC-1 at 400 V at ambient temperature 40 °C rated value	IO A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
 at AC-5a up to 690 V rated value 	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	4 A
 — up to 400 V for current peak value n=20 rated value 	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
 — up to 690 V for current peak value n=20 rated value 	3.6 A
• at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	2.7 A
 — up to 400 V for current peak value n=30 rated value 	2.7 A
 — up to 500 V for current peak value n=30 rated value 	2.5 A
 up to 690 V for current peak value n=30 rated value 	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating	
cycles at AC-4	
at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A

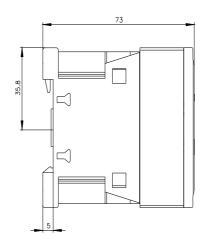
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	1.5 kVA
• up to 400 V for current peak value n=20 rated value	2.7 kVA
 up to 500 V for current peak value n=20 rated value 	3.3 kVA
up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1 kVA
• up to 400 V for current peak value n=30 rated value	1.8 kVA
• up to 500 V for current peak value n=30 rated value	2.2 kVA
• up to 690 V for current peak value n=30 rated value	2.9 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
 initial value 	0.85

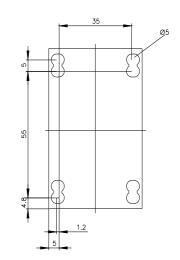
• full-scale value	1.85
design of the surge suppressor	diode
closing power of magnet coil at DC	1.6 W
holding power of magnet coil at DC	1.6 W
closing delay	az (a)
• at DC	25 120 ms
opening delay	
• at DC	20 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	10 A
 at 400 V rated value 	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1A
at 220 V rated value at 600 V rated value	0.15 A
operational current at DC-13	0.13 A
•	10.4
at 24 V rated value	10 A
at 48 V rated value	2 A
• at 60 V rated value	2 A
 at 110 V rated value 	1 A
 at 125 V rated value 	0.9 A
 at 220 V rated value 	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	4.8 A
 at 600 V rated value 	6.1 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
 for 3-phase AC motor 	
– at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
0	
 for short-circuit protection of the main circuit with type of coordination 1 required 	aC: 354 (600)/ 100k4) aM: 204 (600)/ 100k4) DC00: 254 (415)/ 00k4)
 with type of coordination 1 required with type of assignment 2 required 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)
required	30. 107 (000 v, 110)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
mounting poolition	The rotation possible on vertical mounting surface, can be titled

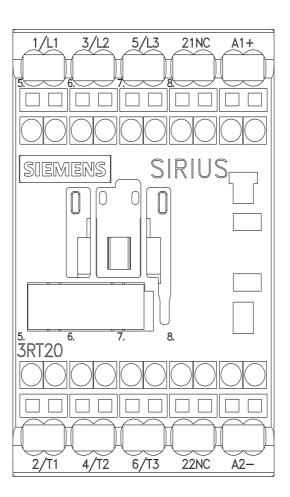
festening method according to DNL EN 60715 • side-by-side mounting Yes height 70 mm • width 45 mm feyth 70 mm • width 45 mm feyth 70 mm • width 45 mm feyth 70 mm • width 10 mm • upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - upwards 10 mm - for main current circuit spring-baded terminals		forward and backward by +/- 22.5° on vertical mounting surface
	fastening method	
height 20 mm witht 45 mm depth 73 mm required spacing 73 mm - forwards 10 mm - downwards 10 mm - for live parts 10 mm - for live parts 10 mm - for wall synch control circuit spring-loaded terminals Ype of doetrical connection for mails syning-loaded terminals of main contacts spring-loaded terminals - for adving and control circuit spring-loaded terminals Ype of connectable conductor cross-sections of main contacts - for adving and control circuit spring-loaded terminals	-	
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required spacing • with alde by-side mounting		
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- forwards 10 mm - upwards 10 mm - at the side 0 mm - at the side 0 mm - at the side 0 mm - for younds 10 mm - proverds 10 mm - proverds 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - downwards spring-topated terminals spr		
upwards 10 mm downards 10 mm downards 10 mm downards 10 mm for grounded parts 10 mm upwards 10 mm downwards 10 mm at the side 6 mm oranicative consultary contacts Spring-loaded terminals for main current circuit spring-loaded terminals orand		10 mm
- downwards 10 mm - at the side 0 mm - for grounded parts 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - at the side 6 mm - downwards 10 mm - downwards 20 mm - for auxillary contacts 27 (0.5 4 mm ²)		
at the side 0 mm - for arounded parts 0 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - for live parts 10 mm - ownwards 10 mm - ownwards 10 mm - ownwards 10 mm - downwards 5 mm - for auxiliary contacts Spring-baded terminals - of auxiliary contacts Spring-baded terminals - of auxiliary contacts Spring-baded terminals - odid 2x (0.5 4 mm [*]) - neibid or stranded 05 4 mm [*] - finely stranded without core end processing 05 4 mm [*] <td></td> <td></td>		
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- forwards 10 mm - upwards 0 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 6 mm Connectable conductor cross-sections 6 mm • for main contacts Spring-loaded terminals • a colid or stranded 2x (0.5 4 mm ²) - solid or stranded with core end processing 2x (0.5 4 mm ²) - fordy stranded with core end processing 0.5 4 mm ² • solid 0.5 4 mm ² • solid 0.5 2.5 mm ² • forely stranded with core end processing 0.5 2.5 mm ² • forely stranded with core end processing 0.5 2.5 mm ² • forely stranded with core end		
		10 mm
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 for live parts forwards forwards forwards formations downwards downwards formain current circuit at the side formain current circuit spring-loaded terminals tor maxiliary contacts solid or stranded server the stranded with core end processing of auxiliary contacts	— at the side	6 mm
- forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ forminals 5 mm type of electrical connection spring-loaded terminals - if or auxiliary contacts Spring-loaded terminals - of main current circuit spring-loaded terminals - if or auxiliary contacts Spring-type terminals - of majne conductor cross-sections - for main contacts - solid 2x (0.5 4 mm ²) - finely stranded with core end processing 2x (0.5 4 mm ²) - finely stranded without core end processing 2x (0.5 2.5 mm ²) - solid 0.5 4 mm ² - solid 0.5 2.5 mm ² - solid or stranded 0.5 4 mm ² - solid or stranded 0.5 4 mm ² - solid or stranded 0.5 4 mm ² - finely stranded with core end processing 0.5 2.5 mm ² - finely stranded with core end processing 0.5 2.5 mm ² - ondictable conductor cross-section for auxiliary contacts 2x (0.5 2.5 mm ²) - solid or stranded 0.5 4 mm ² <	— downwards	10 mm
	 for live parts 	
downwards 10 mm althe side 6 mm Connections/Terminals 5 pring-loaded terminals if or auxiliary and control circuit spring-loaded terminals i of auxiliary contacts spring-loaded terminals i of auxiliary contacts spring-loaded terminals i of auxiliary contacts spring-loaded terminals i of magnet coll Spring-type terminals i of magnet coll Spring-type terminals i of main contacts - solid - solid or stranded 2x (0.5 4 mm²) - finely stranded with our ore end processing 2x (0.5 4 mm²) - finely stranded with our ore end processing 2x (0.5 4 mm²) i onder conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary i finely stranded with our ore end processing 0.5 4 mm² i finely stranded with our ore end processing 0.5 2.5 mm² connectable conductor cross-section for auxiliary consectable conductor cross-section for auxiliary otid or stranded 0.5 2.5 mm² i finely stranded with our ore end processing 0.5 2.5 mm² i finely stranded with our ore end processing 2x (0.5 2.5 mm² i finely stranded with our ore end pro	— forwards	10 mm
	— upwards	10 mm
Connections/Terminals type of electrical connection • for main current circuit spring-loaded terminals • of auxiliary and control circuit spring-loaded terminals • of main contacts Spring-type terminals • of main contacts Spring-type terminals • of main contacts Spring-type terminals • of main contacts 2x (0.5 4 mm²) - solid or stranded 2x (0.5 4 mm²) - finely stranded with core end processing 2x (0.5 4 mm²) - finely stranded with core end processing 2x (0.5 4 mm²) • stranded 0.5 4 mm² • stranded 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 25 mm³ • finely stranded with core end processing 0.5 25 mm³ • finely stranded with core end processing 0.5 25 mm³ • finely stranded with core end processing 0.5 25 mm³ • finely stranded with core end processing 0.5 25 mm³ • finely stranded with core end processing 0.5 25 mm³ • for auxiliary co	— downwards	10 mm
type of electrical connection for main current circuit for auxiliary and control circuit spring-loaded terminals Spring-lype terminals Spring-lypetaterminethypering Spring-lype termine	— at the side	6 mm
• for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts • a solid 2x (0.5 4 mm²) - solid or stranded 2x (0.5 4 mm²) - finely stranded without core end processing 2x (2.5 2.5 mm²) • at AWG cables for main contacts 2x (2.0 12) connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded 0.5 4 mm² • solid or stranded 0.5 4 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • for auxiliary contacts </td <td>Connections/ Terminals</td> <td></td>	Connections/ Terminals	
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product function • mirror contact according to IEC 60947-4-1 Yes	 for auxiliary contacts 	20 12
product function • mirror contact according to IEC 60947-4-1 Yes		
mirror contact according to IEC 60947-4-1 Yes		
	-	Yes
		1 000 000

proportion of dange	erous failures				
 with low demand rate according to SN 31920 			10 %		
 with high demand rate according to SN 31920 			73 %		
failure rate [FIT] with low demand rate according to SN 31920		ding to SN 1	100 FIT		
T1 value for proof tes IEC 61508	T1 value for proof test interval or service life according to IEC 61508		20 y		
protection class IP on the front according to IEC 60529		g to IEC	P20		
touch protection on	n the front according t	o IEC 60529 fi	inger-safe, for vertical conta	act from the front	
suitability for use					
 safety-related s 		Y	/es		
Certificates/ approva					
General Product A	pproval				
(SP)		<u>Confirmation</u>		KC	EHC
EMC	Functional Safety/Safety of Machinery	Declaration of C	Conformity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	C C EG-Konf.		<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping		ĴÅ	Lloyds Register	6	()
ABS	BUREAU VERITAS	DNV	LRS	PRS	RINA
Marine / Shipping	other		Dangerous Good		
	Confirmation		<u>Transport Informa-</u> <u>tion</u>		
RMRS		VDE			
Information- and Do https://www.siemens Industry Mall (Onlin	ne ordering system)		1fb=3RT2015-2\/R42		
https://www.siemenss Industry Mall (Onlin https://mall.industry.ss Cax online generator http://support.automa Service&Support (M https://support.indust Image database (pro http://www.automation Characteristic: Trip	a.com/ic10 ne ordering system) siemens.com/mall/en/er or ation.siemens.com/WW/ Manuals, Certificates, (try.siemens.com/cs/ww/ oduct images, 2D dim	n/Catalog/product?m /CAXorder/default.ar Characteristics, FA /en/ps/3RT2015-2VE ension drawings, 3 cax_de.aspx?mlfb=3 ²t, Let-through curr	spx?lang=en&mlfb=3RT20 \Qs,) 342 3D models, device circuit 3RT2015-2VB42⟨=en rent		ros,)









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