SIEMENS

Data sheet

3RT2015-1AB02-1AA0



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00, upright mounting position

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S00			
product extension				
 function module for communication 	No			
auxiliary switch	Yes			
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 	1.1 W			
type of calculation of power loss depending on pole	quadratic			
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 protective separation between coil and main contacts according to EN 60947-1	400 V			
shock resistance at rectangular impulse				
• at AC	6,7g / 5 ms, 4,2g / 10 ms			
shock resistance with sine pulse				
• at AC	10,5g / 5 ms, 6,6g / 10 ms			
mechanical service life (operating cycles)				
 of contactor typical 	30 000 000			
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000			
 of the contactor with added auxiliary switch block typical 	10 000 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)				
Weight	0.22 kg			
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 %			

Environmental footprint					
Environmental Product Declaration(EPD)	Yes				
Global Warming Potential [CO2 eq] total	39.6 kg				
Global Warming Potential [CO2 eq] during manufacturing	 1.18 kg				
Global Warming Potential [CO2 eq] during operation	38.5 kg				
Global Warming Potential [CO2 eq] after end of life	-0.155 kg				
Main circuit					
number of poles for main current circuit	3				
number of NO contacts for main contacts	3				
operating voltage					
 at AC-3 rated value maximum 	690 V				
 at AC-3e rated value maximum 	690 V				
operational current					
• at AC-1 at 400 V at ambient temperature 40 °C rated value	18 A				
 at AC-1 — up to 690 V at ambient temperature 40 °C rated 	18 A				
value — up to 690 V at ambient temperature 60 °C rated	16 A				
value • 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 at AC-6a 	3.6 A				
— 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 mm²				
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 60 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 60 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				

a with 2 autrent notion in parise of DC 1					
with 3 current paths in series at DC-1 — at 24 V rated value	15 Δ				
— at 60 V rated value	15 A				
— at 110 V rated value	15 A 15 A				
— at 220 V rated value	15 A 15 A				
— at 440 V rated value					
	0.9 A 0.7 A				
— at 600 V rated value	0.7 A				
at 1 current path at DC-3 at DC-5	45.0				
— at 24 V rated value	15 A				
— at 60 V rated value — at 110 V rated value	0.35 A				
with 2 current paths in series at DC-3 at DC-5	0.1 A				
- at 24 V rated value	15 A				
— at 60 V rated value	15 A 3.5 A				
— at 100 V rated value					
	0.25 A				
 with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 	15.4				
	15 A 15 A				
— at 60 V rated value — at 110 V rated value	15 A 15 A				
— at 220 V rated value	1.2 A				
— at 440 V rated value					
— at 440 V rated value — at 600 V rated value	0.14 A 0.14 A				
operating power	0.14 A				
at AC-2 at 400 V rated value	3 kW				
• at AC-3	U KWY				
— 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					
Imited to 1 s switching at zero current maximum	120 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 5 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 10 s switching at zero current maximum	67 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero surrent maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value				
Imited 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 AC	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				

a at AC 2a maximum	750 4/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	AC			
control supply voltage at AC				
 at 50 Hz rated value 	24 V			
• at 60 Hz rated value	24 V			
operating range factor control supply voltage rated value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.85 1.1			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	27 VA			
• at 60 Hz	24.3 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.8			
• at 60 Hz	0.75			
apparent holding power of magnet coil at AC				
• at 50 Hz	4.2 VA			
• at 60 Hz	3.3 VA			
inductive power factor with the holding power of the coil				
at 50 Hz	0.25			
• at 50 Hz	0.25			
	0.20			
elosing delay • at AC	9 35 ms			
	9 35 INS			
opening delay				
• at AC	4 15 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			
-	10 A 3 A			
• at 230 V rated value				
at 230 V rated valueat 400 V rated value	3 A			
 at 230 V rated value at 400 V rated value at 500 V rated value 	3 A 2 A			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 	3 A 2 A			
at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12	3 A 2 A 1 A			
at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value	3 A 2 A 1 A 10 A			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value 	3 A 2 A 1 A 10 A 6 A			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value Operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A			
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 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 48 V rated value at 48 V rated value at 400 V rated value at 24 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 48 V rated value at 60 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A			
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— 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				
 for short-circuit protection of the main circuit 				
 — with type of coordination 1 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 required 	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	standing, on horizontal mounting surface			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	58 mm			
width	45 mm			
depth	73 mm			
required spacing				
with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
• for live parts				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	screw-type terminals			
for auxiliary and control circuit	screw-type terminals			
at contactor for auxiliary contacts	Screw-type terminals			
of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
— solid — solid or stranded	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²			
 — finely stranded with core end processing 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
for AWG cables for main contacts	2x (0.5 1.5 mm), 2x (0.7 5 2.5 mm) 2x (20 16), 2x (18 14), 2x 12			
connectable conductor cross-section for main contacts				
solid	0.5 4 mm²			
stranded	0.5 4 mm ²			
 finely stranded with core end processing 	0.5 4 mm ²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 4 mm²			
 finely stranded with core end processing 	0.5 4 mm ²			
	0.5 2.5 mm			
type of connectable conductor cross-sections				
for auxiliary contacts colid or stranded	$2 \times (0.5 - 1.5 \text{ mm}^2) \cdot 2 \times (0.75 - 2.5 \text{ mm}^2) \cdot 2 \times 4 \text{ mm}^2$			
 — solid or stranded finally stranded with core and processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²			
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12			

AWG number as coded connectable conducto	or cross						
 for main contacts 		20 1	0				
		20 1					
for auxiliary contacts	20		2				
Safety related data		-					
product function							
• mirror contact according to IEC 60947-4-1			Yes				
positively driven operation according to IE	C 60947-5-1	No					
suitable for safety function		Yes					
suitability for use safety-related switching OFF		Yes					
service life maximum			20 a				
test wear-related service life necessary		Yes	Yes				
proportion of dangerous failures		40.0/					
with low demand rate according to SN 319 with high demand rate according to SN 24		40 %					
with high demand rate according to SN 31		73 %	000				
B10 value with high demand rate according to		1 000					
failure rate [FIT] with low demand rate accord 31920	ling to SN	100 Fl	1				
ISO 13849							
device type according to ISO 13849-1		3					
overdimensioning according to ISO 13849-2 n	necessary	Yes					
IEC 61508							
safety device type according to IEC 61508-2		Туре А	A				
Electrical Safety							
protection class IP on the front according to I	EC 60529	IP20					
touch protection on the front according to IEC	C 60529	finger-	safe, for vertical contact	from the front			
Approvals Certificates		_					
General Product Approval							
General Product Ap-				UL.			
proval	Functional Sat	ftey	Test Certificates		Marine / Shipping		
	<u>Type Examinatic</u> <u>tificate</u>	<u>on Cer-</u>	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS		
Marine / Shipping					other		
BUREAU VERITAS	PRS		RINA	RMRS	<u>Miscellaneous</u>		
other	Railway		Environment				
Confirmation Confirmation	<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	EPD	Environmental Con- firmations			
Further information							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/vi							

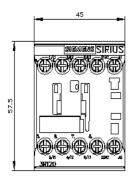
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-1AB02-1AA0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1AB02-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AB02-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

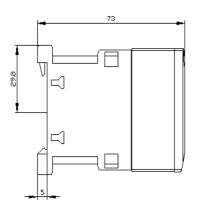
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1AB02-1AA0&lang=en

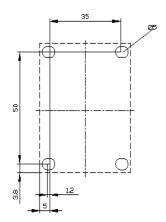
Characteristic: Tripping characteristics, I²t, Let-through current

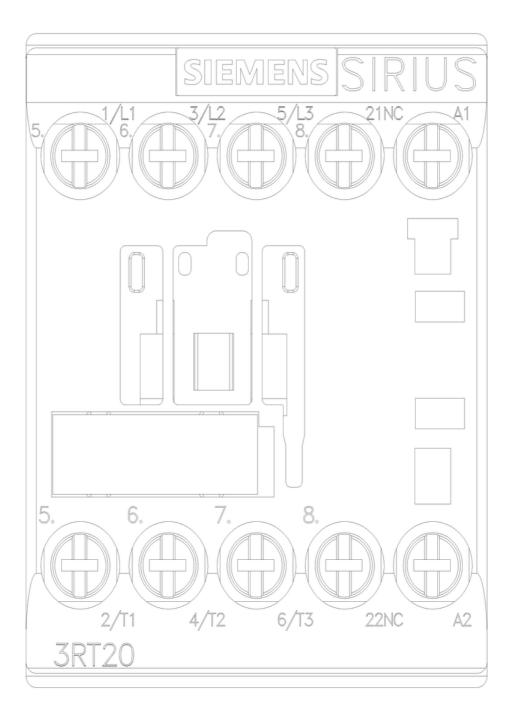
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AB02-1AA0/char

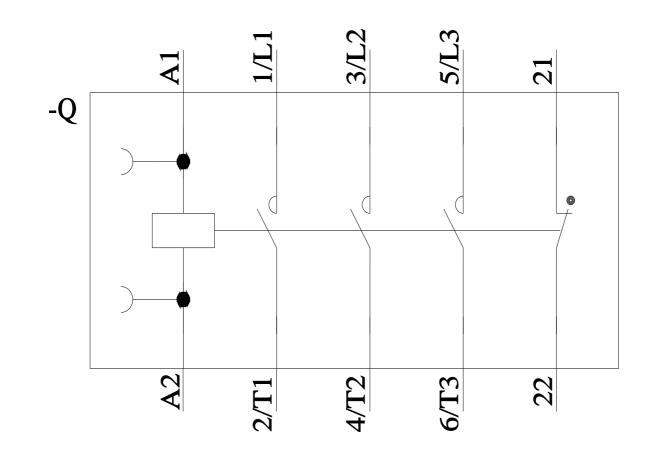
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1AB02-1AA0&objecttype=14&gridview=view1











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