SIEMENS

Data sheet 3RT2015-2UB42



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 24 V DC, 0.8-1.1*Us with integrated varistor, Size S00, Spring-type terminal

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 	4 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	000.1/
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	40.4
• at AC-1 at 400 V at ambient temperature 40 °C rated value	18 A
• at AC-1	40.4
 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	7.4
— 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	0.07.
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 220 v rateu value	IVA

ot 440 V rated value	0.0 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	45.4
— 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	45.0
— 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	45.4
— at 24 V rated value	15 A 15 A
— at 110 V rated value	
— 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-2 at 400 V rated value	3 kW
	3 KVV
• at AC-3	1.5 k/M
— at 230 V rated value — at 400 V rated value	1.5 kW 3 kW
— at 400 V rated value — at 500 V rated value	3 kW
— at 690 V rated value ● at AC-3e	4 kW
at AC-3e — at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 400 V rated value — at 500 V rated value	3 kW
— at 690 V rated value — at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles	TIVV
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 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited 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 	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	

a initial value	0.8
• initial value	
• full-scale value	1.1
design of the surge suppressor	with varistor
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	00 400
• at DC	30 100 ms
opening delay	7. 40
• at DC	7 13 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 	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
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	
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 coordination in required - with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,
— with type of assignment 2 required	80kA)
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)
required	
Installation/ mounting/ dimensions	

Fastening method series beyside mounting side-by-side mounting width depth 70 mm 45 mm 70 mm 46 mm 70 mm 46 mm 70 mm with side-by-side mounting - forwards - upwards - upwards - ownwards - ownwards - for grounded parts - forwards - upwards - forwards - upwards - forwards	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
side-by-side mounting with the	fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
Medical Spacing	-	according to DIN EN 60715
width 45 mm deepth 73 mm required spacing *** with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - words 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - for wards 10 mm - forwards 10 mm		
Image: Commercial production		
evilh side-by-side mounting - Invarids - Upwards - Upwards - In the side - of orgounded parts - Invarids - In		
with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — puywards — to the side • for grounded parts — forwards — upwards — upwards — upwards • for live parts — downwards • for live parts — downwards • for live parts — downwards — upwards — upwards — upwards — ownwards — upwards — ownwards — at the side — downwards — ownwards — at the side — ownwards — ownwards — at the side — own and upwards — own and upwa	•	73 111111
— forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — upwards — upwards — to mm — at the side — forwards — upwards — to mm — at the side — forwards — to mm — at the side — forwards — forwards — forwards — forwards — to mm — downwards — upwards — to mm — downwards — to mm — at the side — for wards — to mm — upwards —		
- upwards		10 mm
- downwards - at the side - 0 mm - 1		
at the side - for grounded parts forwards upwards upwards at the side downwards for live parts forwards for main current circuit for auxiliary and control circuit solid or stranded for live parts and with core end processing for live parts and dead without core end processing finely stranded with core end processing finely stranded without core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded finely stranded without core end processing finely stranded without co	·	
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- at the side — downwards — 10 mm — 10		10 mm
- alt he side - downwards - for live parts - forwards - upwards - downwards - downwards - downwards - downwards - downwards - at he side - formain current circuit - for main current circuit - for main current circuit - for main current circuit - at contactor for auxiliary contacts - of magnet coil - for main contacts - solid - solid or stranded - finely stranded without core end processing - finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts - for auxiliary c	— upwards	10 mm
• for live parts — forwards — upwards — downwards — at the side — at the side — of manicurent circuit — for main current circuit — at contactor for auxiliary contacts — of magnet coil type of electrical conductor cross-sections — of magnet coil type of connectable conductor cross-sections — solid — solid or stranded — finely stranded without core end processing — shely stranded with core end processing — shely stranded without core end processing — she	•	6 mm
- forwards - upwards - 10 mm		
- forwards - upwards - 10 mm	• for live parts	
- downwards — at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil Spring-type terminals • for main contacts - solid - solid or stranded 2x (0.5 4 mm²) - solid or stranded without core end processing 2x (0.5 2.5 mm²) - at AWG cables for main contacts • solid 0.5 4 mm² • 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 • finely stranded without 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 • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without	•	10 mm
at the side 6 mm Connections Terminals	— upwards	10 mm
type of electrical connection • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil • for main current circuit • at contactor for auxiliary contacts • of magnet coil • for main contacts • of magnet coil • for main contacts • solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for connectable conductor cross-sections • for auxiliary contacts - for main contacts • for	·	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid constanded — finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	— at the side	6 mm
• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded without core end processing • at AWG cables for main contacts • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded wit	Connections/ Terminals	
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at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of main contacts		spring-loaded terminals
of magnet coil type of connectable conductor cross-sections	 for auxiliary and control circuit 	spring-loaded terminals
• for main contacts	at contactor for auxiliary contacts	Spring-type terminals
• for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — at AWG cables for main contacts • solid • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts	of magnet coil	Spring-type terminals
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- finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor crosssection • for main contacts • for auxiliary contacts • for main contacts • for main contacts • for main contacts • for main contacts • for auxiliary contacts Product function	— solid	2x (0.5 4 mm²)
- finely stranded without core end processing	— solid or stranded	2x (0,5 4 mm²)
• at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing 2x (0.5 2.5 mm²) - finely stranded without core end processing 2x (0.5 2.5 mm²) • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 safety related data product function	 finely stranded with core end processing 	2x (0.5 2.5 mm²)
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AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 20 12 3afety related data product function	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
e for main contacts e for auxiliary contacts 20 12 20 12 3afety related data product function	at AWG cables for auxiliary contacts	2x (20 12)
 for main contacts for auxiliary contacts 20 12 Safety related data product function 		
• for auxiliary contacts 20 12 Safety related data product function		20 12
Parent product function		
product function	·	
• INHOL CONTACT SCORDING TO THE POUND AND A PART OF THE PART OF TH	mirror contact according to IEC 60947-4-1	Yes

B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
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	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
Cartificates/ approvals	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>





Type Examination Certificate



Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Dangerous Good



Confirmation



Transport Information

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2UB42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2UB42

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2UB42

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

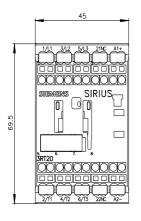
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2UB42\&lang=en}}$

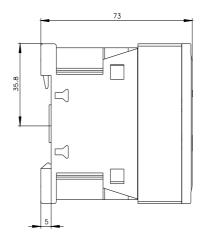
Characteristic: Tripping characteristics, I2t, Let-through current

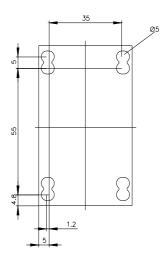
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2UB42/cha

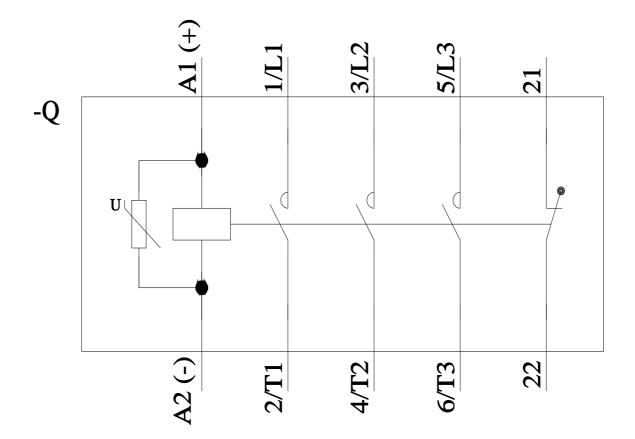
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2UB42&objecttype=14&gridview=view1









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