SIEMENS

Data sheet 3RT2018-1BE42



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 60 V DC, auxiliary contacts: 1 NC, screw terminal, size: S00 $\,$

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 	3 W
 at AC in hot operating state per pole 	1 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 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)	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	
• 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	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	22 A
value	00.4
 up to 690 V at ambient temperature 60 °C rated value 	20 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	0.571
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
at AC-4 at 400 V rated value at AC-5 aug to 600 V rated value	11.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	9.6 A
— up to 400 V for current peak value n=20 rated value	9.6 A
 up to 500 V for current peak value n=20 rated value 	9.6 A
 up to 690 V for current peak value n=20 rated value 	8.9 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	6.6 A
 up to 400 V for current peak value n=30 rated value 	6.4 A
up to 500 V for current peak value n=30 rated value	6.4 A
 up to 690 V for current peak value n=30 rated value 	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 110 v rated value — at 220 V rated value	1.6 A
	0.8 A
— at 440 V rated value	
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1 at 24 V sets d valve.	20.4
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	

— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
 at 400 V rated value 	2.5 kW
at 690 V rated value	3.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	3.8 kVA
 up to 400 V for current peak value n=20 rated value 	6.6 kVA
 up to 500 V for current peak value n=20 rated value 	8.3 kVA
up to 690 V for current peak value n=20 rated value	10.6 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	2.5 kVA
 up to 400 V for current peak value n=30 rated value 	4.4 kVA
 up to 500 V for current peak value n=30 rated value 	5.5 kVA
up to 690 V for current peak value n=30 rated value	7.6 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	300 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 1's switching at zero current maximum Ilmitted to 5's switching at zero current maximum	169 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 3's switching at zero current maximum Imited to 10 s switching at zero current maximum	128 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 10 s switching at zero current maximum Ilmitted to 30 s switching at zero current maximum	92 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 50 s switching at zero current maximum Ilmitted to 60 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	, 230 minimum 0.000 000minimum. to 710 minut value
• 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	60 V
operating range factor control supply voltage rated value of	
magnet coil at DC	0.0
• initial value	0.8
full-scale value	1.1

closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• 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 110 V lated value at 125 V rated value	0.9 A
at 220 V rated value at 220 V rated value	0.3 A
at 600 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	Tradity switching per 100 million (17 V, 1 mz)
<u> </u>	
full-load current (FLA) for 3-phase AC motor	44.0
at 480 V rated value	14 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 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: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
 — with type of assignment 2 required 	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
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
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	58 mm
width	45 mm
WIGHT	TIIIII OF

type of electrical connection • 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 with core end processing • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded • finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) AWG connectable conductor cross-sections • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1	depth	73 mm
- horwards	required spacing	
- upwards	with side-by-side mounting	
- downwards	— forwards	10 mm
■ of the side	— upwards	10 mm
- for grounded parts - forwards - at the side - downwards - for live parts - forwards - for live parts - forwards - forwards - forwards - forwards - forwards - downwards - downwards - downwards - the side - downwards - the side - downwards - the side - forwards - the side - the side - forwards - solid or stranded - shanded - forwards - solid or stranded - forwards - forward	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards - at the side - downwards - 10 mm - 6 mm	 for grounded parts 	
- at the side - downwards - 10 mm - 10	— forwards	10 mm
• for live parts	— upwards	10 mm
• for live parts — forwards — upwards — at the side on me Connections/Terminals Type of electrical connection • for main current circuit • for auxiliary contacts • solid or stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • finely stranded with core end processing • for auxiliary 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 auxiliary contacts • for auxi	— at the side	6 mm
- forwards - upwards - 10 mm -	— downwards	10 mm
- upwards - downwards - at the side - dommands - deformands type of electrical connections - for main current circuit - for auxiliary and control circuit - ear auxiliary contacts - solid or stranded - ear auxiliary contacts - solid or stranded - ear auxiliary contacts - ear auxiliary contacts - ear auxiliary contacts - solid or stranded - ear auxiliary contacts - connectable conductor cross-sections - for auxiliary contacts - ear auxiliary contacts - ea	• for live parts	
- downwards	— forwards	10 mm
at the side connections / Terminals vitype of electrical connection • for main current circuit • for auxiliary and control circuit • a connectable conductor cross-sections for main contacts • solid • for auxiliary contacts • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts	— upwards	10 mm
type of electrical connection • for main contacts • solid or 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 auxiliary contacts • 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 • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • f	— downwards	10 mm
type of electrical connection		6 mm
• for main current circuit • for auxiliary and control circuit • or auxiliary and control circuit • or auxiliary and control circuit • or magnet coil Screw-type terminals	Connections/ Terminals	
• for auxiliary and control circuit • at contactor for auxillary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • should or stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • 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 • solid or stranded • finely stranded with core end processing • for onnectable conductor cross-section for auxillary contacts • solid or stranded • finely stranded with core end processing • for avxillary contacts • solid or stranded • finely stranded with core end processing • for avxillary contacts • for auxillary contacts • for au		
• at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • selid or stranded • stranded • stranded • selid or stranded • selid or stranded • selid or stranded • finely stranded with core end processing • of selid or stranded • finely stranded with core end processing • selid or stranded • finely stranded with core end processing • selid or stranded • finely stranded with core end processing • selid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • for suxiliary contacts AWG number as coded connectable conductor cross-sections • for main contacts • for main contacts • for main contacts • for main contacts • for auxiliary contacts 20 12 AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts 20 12 AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts 20 12 AWG number as coded connectable conductor cross-section • for for main contacts • for for main contacts • for for main contacts • for		· · · · · · · · · · · · · · · · · · ·
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solid or stranded	•	Screw-type terminals
solid or stranded	<u> </u>	Screw-type terminals
* solid or stranded * (inely stranded with core end processing * (2 (0.5 1.5 mm²), 2x (0.75 2.5 mm²) * (2 (0.5 1.5 mm	type of connectable conductor cross-sections for main contacts	
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solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts		0.5 2.5 mm²
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- finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (20 15, mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 3afety related data product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 1000 FIT T1 value for proof test interval or service life according to IEC 60529 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 safety-related switching OFF Yes Partificates/ approvals		0 (0 5 4 5 3) 0 (0 75 0 5 3) 0 4 3
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• for main contacts • for auxiliary contacts • for auxiliary contacts • for four according to IEC 60544-4-1 • for for for according to IEC 605459 • for vertical contact from the front • safety-related switching OFF • for vertical contact from the front		
for auxiliary contacts active related data product function		20 12
product function		
product function	Safety related data	
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protection class IP on the front according to IEC 60529 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 Certificates/ approvals	failure rate [FIT] with low demand rate according to SN 31920	100 FIT
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals		20 a
touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals		
suitability for use	· · · · · · · · · · · · · · · · · · ·	
safety-related switching OFF Yes Certificates/ approvals	· · · · · · · · · · · · · · · · · · ·	finger-safe, for vertical contact from the front
Certificates/ approvals	-	
		Yes
General Product Approval	Certificates/ approvals	
	General Product Approval	



Confirmation





<u>KC</u>



	Functional
EMC	Safety/Safety of Ma-
	chinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good

Environment



Confirmation



Vibration and Shock

Transport Information

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2018-1BE42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1BE42

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BE42

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

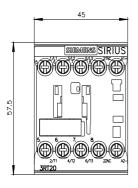
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1BE42&lang=en

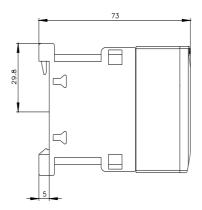
Characteristic: Tripping characteristics, I²t, Let-through current

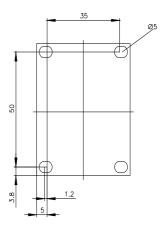
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BE42/char

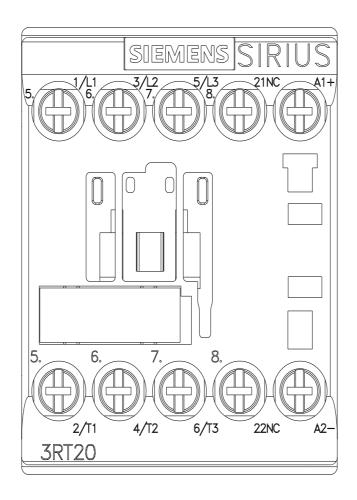
Further characteristics (e.g. electrical endurance, switching frequency)

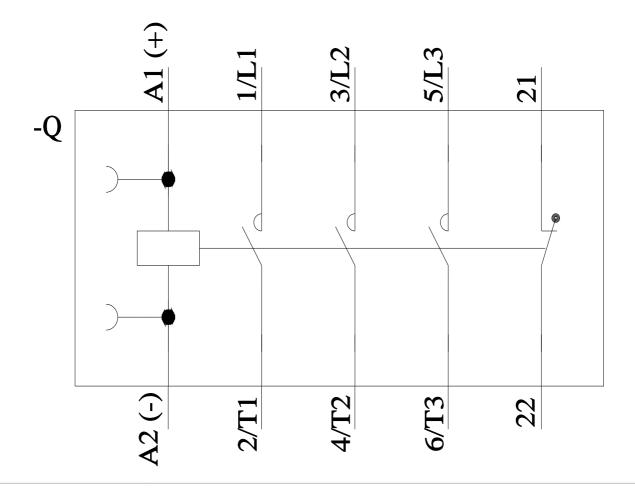
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-1BE42&objecttype=14&gridview=view1











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