SIEMENS

Data sheet 3RT2046-1AN00



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 220 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
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 	19.8 W
 at AC in hot operating state per pole 	6.6 W
without load current share typical	7.3 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
 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)	03/01/2017
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	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	130 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	130 A
— up to 690 V at ambient temperature 60 °C rated	110 A
value	TIOA
• at AC-3	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
at AC-4 at 400 V rated value	80 A
at AC-5a up to 690 V rated value	114 A
at AC-5b up to 400 V rated value	95 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	84.4 A
— up to 400 V for current peak value n=20 rated value	84.4 A
— up to 500 V for current peak value n=20 rated value	84.4 A
— up to 690 V for current peak value n=20 rated value	58 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	56.3 A
— up to 400 V for current peak value n=30 rated value	56.3 A
— up to 500 V for current peak value n=30 rated value	56.3 A
— up to 690 V for current peak value n=30 rated value	56.3 A
minimum cross-section in main circuit at maximum AC-1 rated	50 mm ²
value	
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	42 A
at 690 V rated value	30 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
	4.5 A

— at 600 V rated value	2.6 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	40 A
— at 60 V rated value	6 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	45 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	22 kW
at 690 V rated value at 690 V rated value	27.4 kW
operating apparent power at AC-6a	2
up to 230 V for current peak value n=20 rated value	33 kVA
up to 400 V for current peak value n=20 rated value	58 kVA
up to 500 V for current peak value n=20 rated value	73 kVA
up to 690 V for current peak value n=20 rated value	69 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	22.4 kVA
up to 400 V for current peak value n=30 rated value	39 kVA
up to 500 V for current peak value n=30 rated value	48.7 kVA
up to 690 V for current peak value n=30 rated value	67.3 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 725 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 297 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	946 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	610 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	486 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
at AC-1 maximum	900 1/h

	070.48
• at AC-2 maximum	350 1/h
• at AC-3 maximum	850 1/h
• at AC-3e maximum	850 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	**
type of voltage of the control supply voltage	AC
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.75 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	296 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.61
apparent holding power of magnet coil at AC	
• at 50 Hz	19 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.38
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO 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	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1A
operational current at DC-12	10 A
at 24 V rated valueat 48 V rated value	10 A 6 A
at 48 V rated value at 60 V rated value	6 A
at 50 v rated value at 110 V rated value	3 A
at 110 V rated value at 125 V rated value	2 A
at 125 V rated value at 220 V rated value	1.4
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	1A
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	96 A
• at 600 V rated value	77 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
• for 3-phase AC motor	
— at 200/208 V rated value	30 hp

- at 420/230 V rated value	
- at 575/600 V rated value 75 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required 4A, A) — with type of assignment 2 required 4A, A) • for short-circuit protection of the auxiliary switch required 5B of the forest of the auxiliary switch required 6B of the forest of the auxiliary switch required 7B of the forest of the auxiliary switch required 7B of the forest of the auxiliary switch required 7B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the auxiliary switch required 8B of the forest of the forest of the auxiliary switch required 8B of the forest of t	
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design of the fuse link	
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- with type of coordination 1 required - with type of assignment 2 required - wide of the auxiliary switch required - wide on the auxiliary switch required - wide of the auxiliary switch required	
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• for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions mounting position	
Installation/ mounting/ dimensions mounting position +/-180* rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5* on vertical mounting surface fastening method • side-by-side mounting • side-by-side mounting height 140 mm width 70 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — forwards — upwards — to mm - downwards — at the side — downwards — at the side — downwards — to mm • for live parts — forwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm - downwards — to mm - downwards — upwards —	(415 V, 80
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface fastening method • side-by-side mounting • side-by-side mounting height vidth 70 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — on mm • for grounded parts — forwards — upwards — upwards — upwards — on mm • for grounded parts — forwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upward	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN E side-by-side mounting Yes height 140 mm width 70 mm depth required spacing with side-by-side mounting - forwards - upwards - at the side of rorwards - upwards - upwards - to for grounded parts - forwards - upwards - upwards - upwards - upwards - to for grounded parts - forwards - upwards - upwards - upwards - upwards - to mm of rorwards - upwards - to mm of rorwards - upwards - upwards - upwards - upwards - upwards - upwards - ut the side - downwards - to mm of ror live parts - forwards - upwards - upwards - upwards - upwards - to mm of rorwards - upwards - to mm of or live parts - forwards - upwards	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN E height 140 mm width 70 mm depth 152 mm required spacing • with side-by-side mounting — forwards 20 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm — forwards 20 mm — upwards 10 mm — at the side 10 mm — for live parts 10 mm — forwards 20 mm — upwards 10 mm — downwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm — downwards 10 mm — at the side 10 mm	rward and
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 — downwards • for live parts — forwards — upwards — downwards — at the side Connections/ Terminals 	
● for live parts — forwards — upwards — downwards — at the side Connections/ Terminals ● for live parts 20 mm 10 mm 10 mm	
- forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals	
 upwards downwards at the side 10 mm 10 mm Connections/ Terminals	
— downwards 10 mm — at the side 10 mm Connections/ Terminals	
— at the side 10 mm Connections/ Terminals	
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	
• finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²)	
connectable conductor cross-section for main contacts	
• solid 2.5 16 mm²	
• stranded 6 70 mm²	
• finely stranded with core end processing 2.5 50 mm ²	
connectable conductor cross-section for auxiliary contacts	
• solid or stranded 0.5 2.5 mm²	
• finely stranded with core end processing 0.5 2.5 mm²	
type of connectable conductor cross-sections	
• for auxiliary contacts solid or stranded 2x (0.5 1.5 mm²) 2x (0.75 2.5 mm²)	
— solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross	
section	
• for main contacts 10 2	
• for auxiliary contacts 20 14	
Safety related data	
product function	

 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	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 a
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

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certific-

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=3RT2046-1AN00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AN00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AN00

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

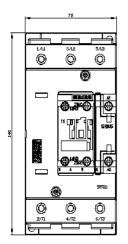
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AN00&lang=en

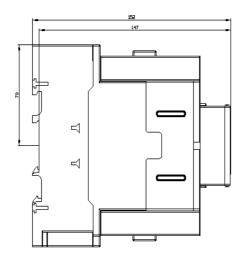
Characteristic: Tripping characteristics, I2t, Let-through current

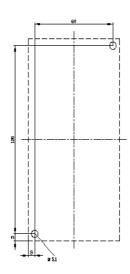
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AN00/char

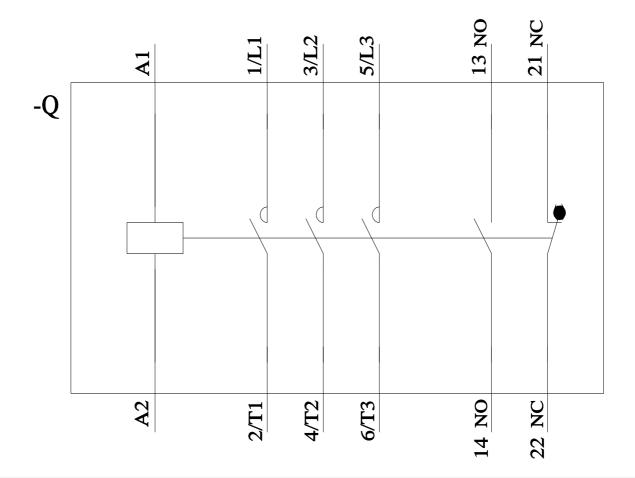
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2046-1AN00\&objecttype=14\&gridview=view1}$









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