SIEMENS

Data sheet 3RT2037-3AF00



Contactor, AC-3, 30 kW / 400 V, 1 NO + 1 NC, 110 V AC, 50 Hz, 3-pole, Size S2, Spring-type terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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	11.4 W
• per pole	3.8 W
power loss [W] for rated value of the current without load current share typical	16 W
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 acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
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
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

operational current	22.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	80 A
rated value	
 up to 690 V at ambient temperature 60 °C 	70 A
rated value	
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	70.4 A
at AC-5b up to 400 V rated value	53.9 A
• at AC-6a	50.0.4
 up to 230 V for current peak value n=20 rated value 	56.9 A
— up to 400 V for current peak value n=20 rated	56.9 A
value 25 Taled	
— up to 500 V for current peak value n=20 rated	56.9 A
value	
— up to 690 V for current peak value n=20 rated	47 A
value • at AC-6a	
	38 A
 up to 230 V for current peak value n=30 rated value 	30 A
— up to 400 V for current peak value n=30 rated	38 A
value	
— up to 500 V for current peak value n=30 rated	38 A
value	00.4
 up to 690 V for current peak value n=30 rated value 	38 A
minimum cross-section in main circuit at maximum AC-1	25 mm ²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
•	28 A
at 400 V rated valueat 690 V rated value	22 A
operational current	22 A
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
	1.77
operational current	
at 1 current path at DC-3 at DC-5 at 24 V rated value	35 A

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 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	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 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	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	30 kW
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
operating power for approx. 200000 operating cycles	
at AC-4	44.7 100
at 400 V rated valueat 690 V rated value	14.7 kW 20 kW
	ZU KVV
operating apparent power at AC-6aup to 230 V for current peak value n=20 rated value	22.6 kV·A
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	39.4 kV·A
• up to 500 V for current peak value n=20 rated value	49.2 kV·A
 up to 690 V for current peak value n=20 rated value 	56.1 kV·A
operating apparent power at AC-6a	00.1 KV //
up to 230 V for current peak value n=30 rated value	15.1 kV·A
• up to 400 V for current peak value n=30 rated value	26.2 kV·A
• up to 500 V for current peak value n=30 rated value	32.8 kV·A
 up to 690 V for current peak value n=30 rated value 	45.3 kV·A
short-time withstand current in cold operating state	
up to 40 °C ■ limited to 1 s switching at zero current maximum	1 055 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	730 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 5's switching at zero current maximum Imited to 10 s switching at zero current maximum	520 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	336 A; Use minimum cross-section acc. to AC-1 rated value
limited to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum	272 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	2.27, 000 Hillimitati 0.000 occitori doc. to AO-1 fateu value
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	700 1/h
• at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	

● at 50 Hz	190 V·A
	190 V-A
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	46.1/ A
• at 50 Hz	16 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.37
closing delay	0.00
• at AC	10 80 ms
opening delay	
• at AC	10 18 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	1
instantaneous contact	
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 	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	65 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
•	

- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation mounting dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side — downwards — upwards — torwards — torwards — torwards — torwards — torwards — torwards — to man — at the side — downwards — to man — at the side — downwards — torwards — upwards — torwards — torwards — to man — t	8: 200 A
for short-circuit protection of the auxiliary switch required	A
Installation/ mounting/ dimensions	
mounting position +/-180° rotation possible on vertical mounting surface; can be tilt forward and backward by +/- 22.5° on vertical mounting surface; can be tilt forward and backward by +/- 22.5° on vertical mounting surface; can be tilt forward and backward by +/- 22.5° on vertical mounting surface; can be tilt forward secree wand snap-on mounting not 35 mm standard mounting rail according to DIN EN 60715 Yes height 114 mm depth 256 mm depth 30 mm required spacing • with side-by-side mounting - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm • for grounded parts - forwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm - downwards 10 mm • for live parts - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - side 6 mm - downwards 5 mm - downwards 5 mm - downwards 5 mm - at the side 6 mm - downwards 5 mm - downwards 5 mm - at contactor for auxiliary contacts 5 spring-loaded terminals 5 spring-loaded terminals 5 spring-loaded terminals 5 spring-lype terminals 5 spring-loaded terminals 5 spring-lype terminals 5 spring-loaded terminals 5 spring-loaded terminals 5 spring-loaded terminals 5 spring-lype terminals 5 spring-loaded terminals 5 spring-lype terminals 5 spring-loaded terminals 5	
fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 * side-by-side mounting height yes theight 114 mm width 55 mm depth 130 mm required spacing * with side-by-side mounting — forwards — upwards — downwards — at the side — of or grounded parts — forwards — upwards — 10 mm * of or grounded parts — forwards — at the side — downwards — at the side — downwards — to mm * of roll ve parts — forwards — upwards — 10 mm — at the side — downwards — 10 mm * of roll ve parts — forwards — upwards — 10 mm * of or live parts — forwards — upwards — 10 mm * of or live parts — forwards — upwards — 10 mm * of main current circuit * of or auxiliary and control circuit * of or auxiliary and control circuit * of main current circuit * of magnet coil * type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing * at AWG cables for main contacts • finely stranded with core end processing * 1 35 mm² * 2 35 mm² * 2 35 mm² * 3 35 mm²	a 4:14 a d
e side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — ownwards — of orgrounded parts — for grounded parts — upwards — upwards — upwards — 10 mm — at the side — ownwards — upwards — 10 mm — at the side — for grounded parts — forwards — upwards — 10 mm — at the side — downwards — 10 mm — at the side — downwards — 10 mm — at the side — downwards — 10 mm — ownwards — ownwards — ownwards — forwards — upwards — ownwards —	ace
height 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm — forwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — of main current circuit screw-type terminals type of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections spring-type terminals • for main contacts 2x (1 35 mm²), 1x (1 50 mm²) — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) • finely stranded with core end processing 1 35 mm² • finely stranded with core end processing 1 35 mm²	g rail
width 55 mm depth 130 mm required spacing with side-by-side mounting forwards upwards downwards at the side for grounded parts for grounded parts for grounded parts forwards upwards at the side 6 mm 10 mm at the side 6 mm downwards 10 mm for live parts 10 mm for live parts 10 mm downwards 10 mm a downwards 10 mm ownwards 10 mm for ownwards 10 mm downwards 5 mm for man current circuit screw-type terminals stype of electrical connection spring-loaded terminals for main contacts spring-type terminals for main contacts 2x (1 35	
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 ◆ of magnet coil Spring-type terminals type of connectable conductor cross-sections ◆ for main contacts — solid or stranded — finely stranded with core end processing ◆ at AWG cables for main contacts 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) connectable conductor cross-section for main contacts ◆ finely stranded with core end processing 1 35 mm² 	
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing 1 35 mm²	
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connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm²	
contacts ◆ finely stranded with core end processing 1 35 mm²	
contacts	
• solid or stranded 0.5 2.5 mm²	
• finely stranded with core end processing 0.5 1.5 mm²	
• finely stranded without core end processing 0.5 2.5 mm²	
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid or stranded 2x (0.5 2.5 mm²)	
— finely stranded with core end processing 2x (0.5 1.5 mm²)	
— finely stranded without core end processing 2x (0.5 2.5 mm²)	
• at AWG cables for auxiliary contacts 2x (20 14)	
AWG number as coded connectable conductor cross	
section	
• for main contacts 18 1	
• for auxiliary contacts 20 14	

Safety related data	
product function mirror contact acc. to IEC 60947-4-1	Yes
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
product function positively driven operation acc. to IEC 60947-5-1	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. 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















Functional
Safety/Safety of
Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination
Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Confirmation

Confirmation

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=3RT2037-3AF00

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2037-3AF00}$

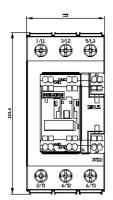
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

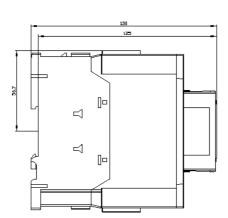
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AF00

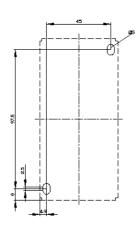
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

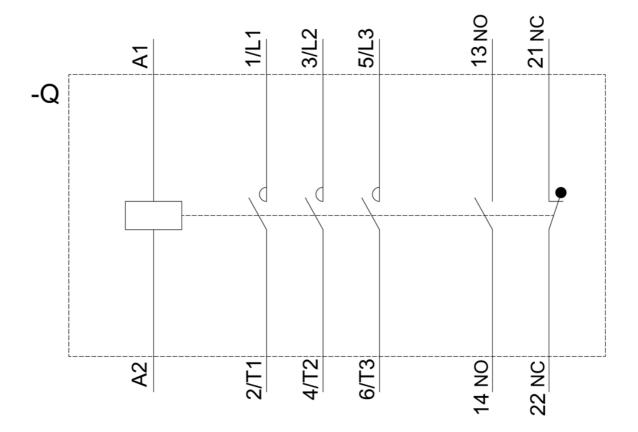
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-3AF00&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current









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