SIEMENS

Data sheet 3RT1064-6AF36

Power contactor, AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional screw terminal



product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1

General technical data	
size of contactor	S10
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 	51 W
 at AC in hot operating state per pole 	17 W
power loss [W] for rated value of the current without	7.4 W
load current share typical	
surge voltage resistance	
of main circuit rated value	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	690 V
60947-1	

 installation altitude at height above sea level maximum ambient temperature during operation during storage 2 000 m -25 +60 °C -55 +80 °C 		
of the terminal shock resistance at rectangular impulse at AC 8,5g / 5 ms, 4,2g / 10 ms at DC 8,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse at AC 13,4g / 5 ms, 6,5g / 10 ms mechanical service life (switching cycles) of contactor typical 10,000,000 of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code acc. to IEC 81348-2 Q Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation 255+60 °C during storage 55+80 °C Asin circuit mumber of poles for main current circuit 3 number of NO contacts for main current circuit 3 number of NO contacts for main current circuit 3 number of NO contacts for main current circuit 275 A at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 at 400 V at ambient temperature 40 °C 275 A rated value — up to 690 V at ambient temperature 40 °C 275 A rated value — up to 1000 V at ambient temperature 40 °C 275 A rated value — up to 1000 V at ambient temperature 40 °C 275 A rated value — up to 1000 V at ambient temperature 40 °C 275 A rated value — up to 1000 V at ambient temperature 60 °C 250 A rated value — up to 1000 V at ambient temperature 60 °C 250 A rated value — up to 1000 V at ambient temperature 60 °C 250 A rated value — up to 1000 V at ambient temperature 60 °C 100 A rated value — at AC-3 — at A0 V rated value	protection class IP	
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installation altitude at height above sea level maximum ambient temperature during operation during storage -25 +60 °C -55 +80 °C // Main circuit number of poles for main current circuit number of NO contacts for main contacts operating voltage	reference code acc. to IEC 81346-2	Q
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 at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C 100 A rated value • at AC-3 — at 400 V rated value 275 A 275 A 276 A 100 A 275 A 276 A 277 A 278 A 279 A 270 A 270	● at AC-1 at 400 V	
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rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value 250 A 100 A 250 A	• at AC-1	
rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value 100 A 100 A 225 A		275 A
rated value — up to 1000 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value 225 A		250 A
rated value • at AC-3 — at 400 V rated value 225 A		100 A
— at 400 V rated value 225 A	·	100 A
— at 400 V rated value 225 A	• at AC-3	
		225 A

— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-4 at 400 V rated value	195 A
• at AC-5a up to 690 V rated value	242 A
• at AC-5b up to 400 V rated value	186 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	225 A
 up to 400 V for current peak value n=20 rated value 	225 A
 up to 500 V for current peak value n=20 rated value 	225 A
 up to 690 V for current peak value n=20 rated value 	225 A
 up to 1000 V for current peak value n=20 rated value 	68 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	172 A
 up to 400 V for current peak value n=30 rated value 	172 A
 up to 500 V for current peak value n=30 rated value 	172 A
 up to 690 V for current peak value n=30 rated value 	172 A
— up to 1000 V for current peak value n=30 rated value	68 A
minimum cross-section in main circuit	
• at maximum AC-1 rated value	150 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	96 A
• at 690 V rated value	85 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	200 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
with 2 current paths in series at DC-1	
— at 24 V rated value	200 A

— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	11 A
— at 600 V rated value	4 A
operational current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	54 kW
• at 690 V rated value	82 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated	90 000 kV·A

 up to 400 V for current peak value n=20 rated value 	150 000 V·A
 up to 500 V for current peak value n=20 rated value 	190 000 V·A
 up to 690 V for current peak value n=20 rated value 	260 000 V·A
 up to 1000 V for current peak value n=20 rated value 	110 000 V·A
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	60 000 V·A
 up to 400 V for current peak value n=30 rated value 	110 000 V·A
 up to 500 V for current peak value n=30 rated value 	140 000 V·A
 up to 690 V for current peak value n=30 rated value 	200 000 V·A
 up to 1000 V for current peak value n=30 rated value 	110 000 V·A
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	4 000 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	2 082 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	1 397 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	1 144 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	110 127 V
• at 60 Hz rated value	110 127 V

control supply voltage at DC	
• rated value	110 127 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	590 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.9
apparent holding power of magnet coil at AC	
● at 50 Hz	6.7 V·A
inductive power factor with the holding power of the coil	
● at 50 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 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	2
number of NO contacts for auxiliary contacts	
• instantaneous contact	2
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	1 A
operational current at DC-12	

contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 600 V rated value	0.1 A
• at 220 V rated value	0.3 A
• at 125 V rated value	0.9 A
• at 110 V rated value	1 A
• at 60 V rated value	2 A
• at 48 V rated value	2 A
• at 24 V rated value	10 A
operational current at DC-13	
• at 600 V rated value	0.15 A
• at 220 V rated value	1 A
• at 125 V rated value	2 A
• at 110 V rated value	3 A
• at 60 V rated value	6 A
• at 48 V rated value	6 A
• at 24 V rated value	10 A

UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	180 A
• at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 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: 500 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)

Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical
	mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
height	210 mm

width	145 mm
depth	202 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/Terminals	

Connections/ Terminals		
width of connection bar	25 mm	
thickness of connection bar	6 mm	
diameter of holes	11 mm	
number of holes	1	
type of electrical connection		
• for main current circuit	Connection bar	
 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		
 at AWG cables for main contacts 	2/0 500 kcmil	
connectable conductor cross-section for main		
contacts		
• stranded	70 240 mm²	
connectable conductor cross-section for auxiliary contacts		
• solid or stranded	0.5 4 mm²	
• finely stranded with core end processing	0.5 2.5 mm²	
• type of connectable conductor cross-sections		
for auxiliary contacts		
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	

type of connectable conductor cross-sections at AWG cables for auxiliary contacts
 AWG number as coded connectable conductor cross section
 for auxiliary contacts
 2x (20 ... 16), 2x (18 ... 14), 1x 12
 18 ... 14

B10 value

• with high demand rate acc. to SN 31920

product function

• mirror contact acc. to IEC 60947-4-1

• positively driven operation acc. to IEC 60947-5-1

touch protection against electrical shock
suitability for use safety-related switching OFF

Yes

Yes

finger-safe when touched vertically from front acc. to IEC 60529

Yes

Certificates/ approvals

General Product Approval

EMC











Declaration of Conformity		Test Certificates			Marine / Ship-
					ping
CE EG-Konf.	Miscellaneous	Special Test Certificate	Type Test Certificates/Test Report	Miscellaneous	ABS

Marine / Shipping	other
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Miscellaneous

Confirmation

KC

Special Test Certificate

Railway

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=3RT1064-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6AF36

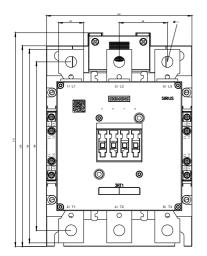
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

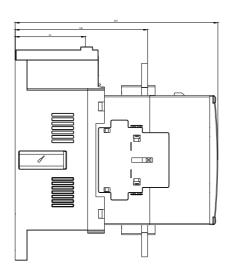
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AF36

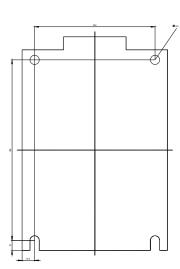
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-6AF36&lang=en

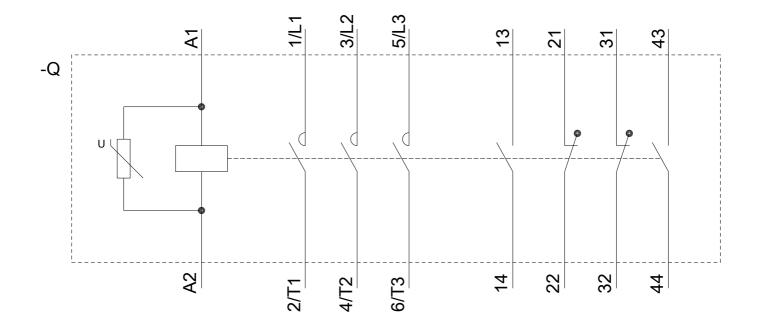
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AF36/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-6AF36&objecttype=14&gridview=view1









last modified: 11/17/2020