SIEMENS

Data sheet 3RT1075-6AU36



power contactor, AC-3e/AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC Uc: 240-277 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

product brand name
product designation
product type designation

SIRIUS	
Power c	ontacto
0074	

product designation	1 ower contactor
product type designation	3RT1
General technical data	
size of contactor	S12
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 	105 W
 at AC in hot operating state per pole 	35 W
 without load current share typical 	10 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 	500 V
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 according to EN 60947-1	690 V
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
• at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
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	95 %

maximum

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 	430 A
rated value	
• at AC-1	400 A
 up to 690 V at ambient temperature 40 °C rated value 	430 A
 up to 690 V at ambient temperature 60 °C rated value 	400 A
 up to 1000 V at ambient temperature 40 °C rated value 	200 A
 up to 1000 V at ambient temperature 60 °C rated value 	200 A
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-4 at 400 V rated value	350 A
at AC-5a up to 690 V rated value	378 A
at AC-5b up to 400 V rated value	332 A
• at AC-6a	005.4
— up to 230 V for current peak value n=20 rated value	395 A
— up to 400 V for current peak value n=20 rated value	395 A
 up to 500 V for current peak value n=20 rated value 	395 A
 up to 690 V for current peak value n=20 rated value 	395 A
— up to 1000 V for current peak value n=20 rated value	180 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	264 A
 up to 400 V for current peak value n=30 rated value 	264 A
 up to 500 V for current peak value n=30 rated value 	264 A
 up to 690 V for current peak value n=30 rated value 	264 A
 up to 1000 V for current peak value n=30 rated value 	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	150 A
at 690 V rated value	135 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	330 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A

with 2 current paths in series at DC-1	400 A
— at 24 V rated value	400 A
— at 60 V rated value — at 110 V rated value	400 A 400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
with 3 current paths in series at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	400 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 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	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 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	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	85 kW
at 690 V rated value	133 kW
operating apparent power at AC-6a	100 1111
up to 230 V for current peak value n=20 rated value	150 000 kVA
 up to 400 V for current peak value n=20 rated value 	270 000 VA
up to 500 V for current peak value n=20 rated value	340 000 VA
• up to 690 V for current peak value n=20 rated value	470 000 VA
up to 1000 V for current peak value n=20 rated value	310 000 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	100 000 VA
 up to 400 V for current peak value n=30 rated value 	180 000 VA
• up to 500 V for current peak value n=30 rated value	220 000 VA
• up to 690 V for current peak value n=30 rated value	310 000 VA
up to 1000 V for current peak value n=30 rated	310 000 VA
value	

short-films withstand current in cold operating state up to 40 °C # limided to 1 is switching at zero current maximum # limided to 0 is switching at zero current maximum # l		
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no-load switching frequency		,
		2 000 A, OSE MINIMUM Cross-Section acc. to AC-1 rated value
		0.000.4/b
operating frequency		
		2 000 1/n
		700.4/L
type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value 240 277 V crated value control supply voltage at DC arted value operating range factor control supply voltage rated value of magnet coil at DC initial value bill-scale value of magnet coil at AC at 50 Hz at 50 Hz at 50 Hz bill-scale value 0.8 1.1 0.9 1.1 design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0		
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		AC/DC
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operational current at AC-15 • at 230 V rated value • at 400 V rated value 3 A		2
 at 230 V rated value at 400 V rated value 3 A 	operational current at AC-12 maximum	10 A
 at 230 V rated value at 400 V rated value 3 A 	operational current at AC-15	
		6 A
at 500 V rated value 2 A	 at 400 V rated value 	3 A
	at 500 V rated value	2 A

-4.000 \ /41	
 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	ridaily emissing per recriminer (iv 1, 1 may)
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	361 A
at 600 V rated value violed machanical performance [hp]	382 A
yielded mechanical performance [hp] • for 3-phase AC motor	
•	125 hn
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 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: 630 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 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
mounting position	surface +/- 22.5° tiltable to the front and back
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing
mounting position fastening method • side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes
mounting position fastening method • side-by-side mounting height	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm
mounting position fastening method • side-by-side mounting height width	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm
mounting position fastening method • side-by-side mounting height width depth	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm
mounting position fastening method • side-by-side mounting height width depth required spacing	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm 0 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm 0 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • for grounded parts — forwards — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 0 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 0 mm 10 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — upwards — upwards — upwards — downwards — at the side — downwards — at the side — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 0 mm
mounting position fastening method • side-by-side mounting height width 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 — downwards — at the side — downwards • for live parts	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 0 mm 10 mm 10 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side — downwards — at the side — downwards — at the side — downwards — for live parts — forwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side — downwards — upwards — upwards — upwards — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards • for low parts — forwards — upwards — downwards — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm
mounting position fastening method • side-by-side mounting height width 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 — downwards — at the side — downwards — for live parts — forwards — upwards — upwards — upwards — downwards — at the side Connections/ Terminals	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm

• for main current circuit

• for auxiliary and control circuit

• at contactor for auxiliary contacts

of magnet coil

width of connection bar

thickness of connection bar

diameter of holes

number of holes

connectable conductor cross-section for main contacts

stranded

connectable conductor cross-section for auxiliary contacts

- solid or stranded
- finely stranded with core end processing

type of connectable conductor cross-sections

- · for auxiliary contacts
 - solid
 - solid or stranded
 - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

• for auxiliary contacts

Connection bar

screw-type terminals

Screw-type terminals

Screw-type terminals

25 mm

6 mm

11 mm

1

70 ... 240 mm²

0.5 ... 4 mm²

0.5 ... 2.5 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)

 $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$

2x (20 ... 16), 2x (18 ... 14), 1x 12

18 ... 14

Safety related data

product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-

5-1

B10 value with high demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

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 No

1 000 000

20 a

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery



Confirmation



EAC



Type Examination Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other

PRS





Confirmation

Miscellaneous

Confirmation

Special Test Certific- Vibration and Shock

ate

Further information

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=3RT1075-6AU36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AU36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AU36

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

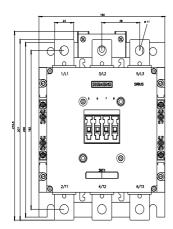
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6AU36&lang=en

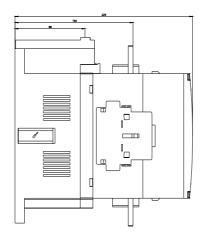
Characteristic: Tripping characteristics, I2t, Let-through current

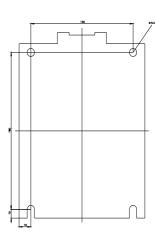
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AU36/char

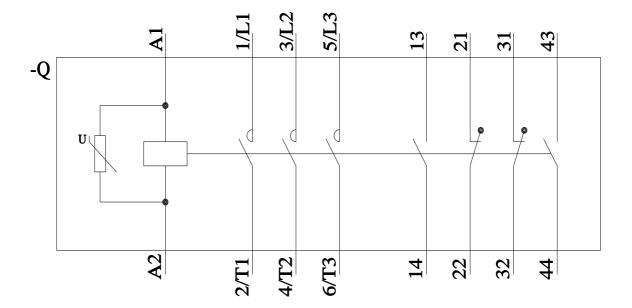
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AU36&objecttype=14&gridview=view1









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