## **SIEMENS**

**Data sheet** 3RT1056-6AF36



Power contactor, AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 Busbar connections Drive: conventional screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	39 W
• per pole	13 W
power loss [W] for rated value of the current without load current share typical	5.2 W
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-25 +60 °C
ambient temperature during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3

<ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	215 A
— up to 690 V at ambient temperature 60 °C rated value	185 A
<ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	100 A
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul>	100 A
• at AC-3	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	160 A
• at AC-5a up to 690 V rated value	189 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	153 A
up to 230 V for current peak value n=20 rated value	157 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	157 A
— up to 500 V for current peak value n=20 rated value	157 A
<ul><li>up to 690 V for current peak value n=20 rated value</li></ul>	157 A
— up to 1000 V for current peak value n=20 rated value	65 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	105 A
— up to 400 V for current peak value n=30 rated value	105 A
— up to 500 V for current peak value n=30 rated value	105 A
— up to 690 V for current peak value n=30 rated value	105 A
— up to 1000 V for current peak value n=30 rated value	65 A
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating cycles at AC-4	04.4
at 400 V rated value     at 600 V rated value	81 A
at 690 V rated value	65 A
operational current	
at 1 current path at DC-1     at 24 V roted value.	160 A
— at 24 V rated value — at 110 V rated value	160 A 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	400.4
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A



<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
operational current	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
<ul><li>— at 110 V rated value</li></ul>	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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 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	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles	O NI
at AC-4	
• at 400 V rated value	45 kW
at 690 V rated value	65 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	60 000 kV·A
• up to 400 V for current peak value n=20 rated value	100 000 V·A
• up to 500 V for current peak value n=20 rated value	130 000 V·A
• up to 690 V for current peak value n=20 rated value	180 000 V·A
up to 1000 V for current peak value n=20 rated	110 000 V·A
value	
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	40 000 V·A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	70 000 V·A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	90 000 V·A
• up to 690 V for current peak value n=30 rated value	120 000 V·A
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	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	2 900 A; Use minimum cross-section acc. to AC-1 rated value
_	
limited to 5 s switching at zero current maximum     limited to 10 s switching at zero current maximum	2 084 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum     limited to 20 a switching at zero current maximum	1 480 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	968 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	801 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency  • at AC	2 000 1/h
→ at no	Z 000 1/11



• at DC	2 000 1/h
operating frequency	2 000 1/11
	900 4 /b
• at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 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	
<ul> <li>at 50 Hz rated value</li> </ul>	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	1.1
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	300 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	5.8 V·A
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.8
- 5.00112	0.0
closing power of magnet coil at DC	360 W
closing power of magnet coil at DC	360 W
closing power of magnet coil at DC holding power of magnet coil at DC	360 W 5.2 W 20 95 ms
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	360 W 5.2 W
closing power of magnet coil at DC holding power of magnet coil at DC closing delay  • at AC • at DC opening delay	360 W 5.2 W 20 95 ms
closing power of magnet coil at DC holding power of magnet coil at DC closing delay  • at AC • at DC	360 W 5.2 W 20 95 ms
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	360 W 5.2 W 20 95 ms 20 95 ms 40 60 ms 40 60 ms
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	360 W 5.2 W 20 95 ms 20 95 ms 40 60 ms
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W 20 95 ms 20 95 ms 40 60 ms 40 60 ms
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W 20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W 20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W  20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W  20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	360 W 5.2 W  20 95 ms 20 95 ms  40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W  20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
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closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W  20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W  20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W  20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W  20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	360 W 5.2 W 20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC  closing delay	360 W 5.2 W  20 95 ms 20 95 ms 40 60 ms 40 60 ms 10 15 ms Standard A1 - A2



a at 600 V rated value	0.15 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     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	180 A
• at 600 V rated value	192 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 230 V rated value	30 hp
• for 3-phase AC motor	201
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
<ul> <li>— at 460/480 V rated value</li> </ul>	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	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 355 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 kA), BS88: 315 A (415 V, 50 kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
required Installation/ mounting/ dimensions	gG: 10 A (500 V, 1 kA)
required Installation/ mounting/ dimensions mounting position	
required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting
required Installation/ mounting/ dimensions mounting position	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm
required Installation/ mounting/ dimensions mounting position  fastening method • side-by-side mounting	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards — upwards	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards — upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm  10 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm  10 mm
required  Installation/ mounting/ dimensions  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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 10 mm 0 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 10 mm 0 mm 0 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 0 mm 0 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 0 mm 10 mm 10 mm 10 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 0 mm 10 mm 10 mm 10 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm  20 mm  10 mm  10 mm  10 mm  10 mm  10 mm  10 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  10 mm  0 mm  10 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm  20 mm  10 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  Yes  172 mm  120 mm  170 mm  20 mm  10 mm
required  Installation/ mounting/ dimensions  mounting position  fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm



diameter of holes	9 mm
number of holes	1
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	Connection bar
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>at AWG cables for main contacts</li> </ul>	4 250 kcmil
connectable conductor cross-section for main contacts	
stranded	25 120 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
<ul><li>— solid or stranded</li></ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
<ul> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul>	18 14
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000
product function	
<ul> <li>mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation acc. to IEC 60947-5-1</li> </ul>	No
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
suitability for use safety-related switching OFF	Yes
Certificates/ approvals	

Certificates/ approvals

**General Product Approval** 















**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

Miscellaneous



Type Test
Certificates/Test
Report

Special Test Certificate Miscellaneous



Marine / Shipping

other





Miscellaneous

Confirmation

Confirmation

Miscellaneous

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=3RT1056-6AF36

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1056-6AF36}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AF36

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

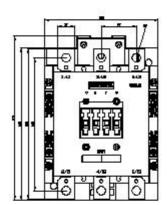
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1056-6AF36&lang=en

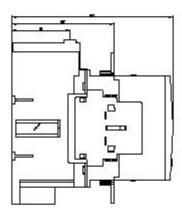
Characteristic: Tripping characteristics, I2t, Let-through current

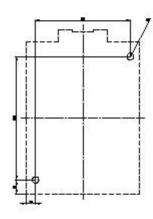
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AF36/char

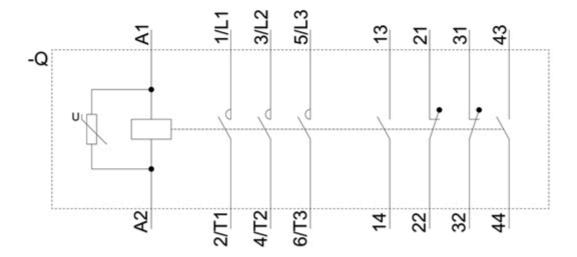
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6AF36&objecttype=14&gridview=view1









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