SIEMENS

Data sheet 3RT1056-6PF35

0101110



power contactor, AC-3e/AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 1 NO + 1 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal with remaining lifetime indicator

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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 	39 W
 at AC in hot operating state per pole 	13 W
 without load current share typical 	2.8 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 protective separation 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 maximum	95 %

lain 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 value	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	215 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	185 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	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
• at AC-3e	
— 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
• at AC-4 at 400 V rated value	160 A
• at AC-5a up to 690 V rated value	189 A
• at AC-5b up to 400 V rated value	153 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	157 A
— up to 400 V for current peak value n=20 rated value	157 A
— up to 500 V for current peak value n=20 rated value	157 A
— up to 690 V for current peak value n=20 rated value	157 A
— up to 1000 V for current peak value n=20 rated	65 A
value	
• 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	
at 400 V rated value	81 A
at 690 V rated value	65 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	160 A
— at 60 V rated value	160 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
a with 2 aureant noths in social at DC 4	
with 2 current paths in series at DC-1	
— at 24 V rated value	160 A
	160 A 160 A

1000.77	00.4
— 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	160 A
— at 60 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
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	160 A
— at 60 V rated value	7.5 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	160 A
— at 60 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
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 60 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
• at AC-3e	
— 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 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 kVA
 up to 400 V for current peak value n=20 rated value 	100 000 VA
 up to 500 V for current peak value n=20 rated value 	130 000 VA
 up to 690 V for current peak value n=20 rated value 	180 000 VA
• up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	40 000 VA
• up to 400 V for current peak value n=30 rated value	70 000 VA
• up to 500 V for current peak value n=30 rated value	90 000 VA
• up to 690 V for current peak value n=30 rated value	120 000 VA
• up to 1000 V for current peak value n=30 rated value	110 000 VA
short-time withstand current in cold operating state up to	
40 °C	

Finded to 1 s anothering at zero current maximum 2.908 A; User minimum cross section acc. to AC-1 rated value 2.908 A; User minimum cross section acc. to AC-1 rated value 4.00 A;				
Finded to 10 a switching at zero current maximum 480 & User minimum cross-section acc. to AC-1 rated value 100	 limited to 1 s switching at zero current maximum 	2 900 A; Use minimum cross-section acc. to AC-1 rated value		
Filmidad to 30 soutching at zero current maximum S01 At Use minimum cross-section acc. to AC-1 rated value No1 to 1	 limited to 5 s switching at zero current maximum 	2 084 A; Use minimum cross-section acc. to AC-1 rated value		
* Imitiate to 00 a switching at zero current maximum	 limited to 10 s switching at zero current maximum 	1 480 A; Use minimum cross-section acc. to AC-1 rated value		
1	 limited to 30 s switching at zero current maximum 	968 A; Use minimum cross-section acc. to AC-1 rated value		
* alt AC	 limited to 60 s switching at zero current maximum 	801 A; Use minimum cross-section acc. to AC-1 rated value		
## AC 1000 th	no-load switching frequency			
operating frequency	• at AC	1 000 1/h		
* At AC-1 maximum	• at DC	1 000 1/h		
	operating frequency			
• al AC-3 maximum • al AC-4 maximum • al AC-3 maximu	at AC-1 maximum	800 1/h		
* at AC-2s maximum	• at AC-2 maximum	300 1/h		
** ALC-4 maximum	• at AC-3 maximum	750 1/h		
Control circuit/ Control AC/DC control supply voltage at AC 96 127 V • at 50 Hz rated value 96 127 V • at 60 Hz rated value 96 127 V • control supply voltage at DC • 1 rated value • rated value 96 127 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • infield value 0.8	at AC-3e maximum	750 1/h		
type of voltage of the control supply voltage at AC * at 50 Hz rated value * at 60 Hz rated value * at 60 Hz rated value * operating range factor control supply voltage rated value of magnet coil at DC * initial value * operating range factor control supply voltage rated value of magnet coil at AC * initial value * operating range factor control supply voltage rated value of magnet coil at AC * initial value * out 60 Hz * at 60 Hz * out 60 Hz	• at AC-4 maximum	130 1/h		
control supply voltage at AC at 00 Hz rated value 50 127 V saled Value 95 127 V operating range factor control supply voltage rated value of magnet coil at DC at 100 Hz at 10	Control circuit/ Control			
control supply voltage at AC at 00 Hz rated value 50 127 V saled Value 95 127 V operating range factor control supply voltage rated value of magnet coil at DC at 100 Hz at 10	type of voltage of the control supply voltage	AC/DC		
• at 50 Hz rated value 96 127 V • at 60 Hz rated value 99 127 V • araid value 96 127 V • araid value 98 127 V • araid value 08 • initial value 10 • initial value 11 • initial value 12				
• at 80 Hz rated value 96 127 V control supply voltage at DC - rated value 96 127 V operating range factor control supply voltage rated value of magnet coil at DC - initial value -		96 127 V		
control supply voltage at DC				
operating range factor control supply voltage rated value of magnet coil at DC initial value 0.8 1.1 0.8 0.8 1.1 0.8 0.8 1.1 0.8 0.8 1.1 0.8 0.8 1.1 0.8 0.8 1.1 0.8 0.8 1.1 0.8 0.8 1.1 0.8 0		96 127 V		
• Initial value • full-scale value • operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • Type 2 20 mA Voltage at PLC-control input according to IEC 69947-1 • Type 2 20 mA Voltage at PLC-control input rated value • 24 V voltage at PLC-control input rated value • 24 V operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power of the voltage at PLC-control input design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz at 60 Hz closing power of magnet coil at DC losing power of magnet coil at DC closing power of magnet coil at DC closing delay • at AC • at DC at D	operating range factor control supply voltage rated value of			
		0.8		
operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz bat 60 Hz consumed current at PLC-control input according to IEC 60947-1 Type 2 Type 4 Type 2 Type 3 Type 2 Type 3 Type 4 Type 2 Type 2 Type 2 Type 4 Type 2 Type 2 Type 4 Type 2 Type 4 Type 2 Type 4 Type 2 Typ				
• at 60 Hz Type of PLC-control input according to IEC 60947-1 Type 2	operating range factor control supply voltage rated value of			
type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 voltage at PLC-control input rated value voltage at PLC-control input according to IEC 60947-1 voltage at P	• at 50 Hz	0.8 1.1		
type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 voltage at PLC-control input rated value voltage at PLC-control input according to IEC 60947-1 voltage at P				
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	design of the surge suppressor	with varistor		
at 50 Hz binductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC closing power of magnet coil at DC closing delay at AC a	apparent pick-up power of magnet coil at AC			
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at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz but for Hz at 60 Hz closing power of magnet coil at DC bolding power of magnet coil at DC closing delay at AC at	• at 60 Hz	280 VA		
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inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC • at AC • at DC • at D	● at 50 Hz	4.8 VA		
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oto Hz closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W closing delay ot AC ot DC otening delay ot AC otening delay otening delay otening time to 90 ms arcing time to 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 1	inductive power factor with the holding power of the coil			
closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W closing delay • at AC • at DC opening delay • at AC • at DC 80 90 ms arcing time 10 15 ms control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 1	● at 50 Hz	0.6		
holding power of magnet coil at DC closing delay at AC at DC 35 75 ms opening delay at AC at DC 80 90 ms at DC 80 90 ms arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 1	• at 60 Hz	0.6		
closing delay	closing power of magnet coil at DC	320 W		
 at AC at DC 35 75 ms opening delay at AC at DC at DC at DC at DC at DC at DC arcing time to 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 1 	holding power of magnet coil at DC	2.8 W		
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number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 1	control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)		
contact number of NO contacts for auxiliary contacts instantaneous 1	Auxiliary circuit			
	number of NC contacts for auxiliary contacts instantaneous	1		
		1		

operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 8 V rated value • at 8 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 8 V rated value • at 24 V rated value • at 8 V rated value • at 48 V rated value • at 48 V rated value • at 45 V rated value • at 25 V rated value • at 20 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value	
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operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value	
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at 60 V rated value at 110 V rated value 1 A at 125 V rated value at 220 V rated value at 600 V rated value 3.3 A at 600 V rated value 3.1 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	
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at 125 V rated value at 220 V rated value at 600 V rated value bull-load current (FLA) for 3-phase AC motor 0.9 A 0.3 A 0.1 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings	
at 220 V rated value at 600 V rated value ontact reliability of auxiliary contacts uL/CSA ratings full-load current (FLA) for 3-phase AC motor 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)	
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	
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	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
full-load current (FLA) for 3-phase AC motor	
at 400 V retail value	
• 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	
— 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: 355 A (690 V, 100 kA)	
— with type of assignment 2 required gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A kA)	(415 V, 50
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	
• for short-circuit protection of the RLT relay output miniature fuse: 4 A FF (230 V, Ik= 400 A)	
required	
Installation/ mounting/ dimensions	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting +/- 22.5° tiltable to the front and back	ng surface
fastening method screw fixing	
• side-by-side mounting Yes	
height 172 mm	
width 140 mm	
depth 170 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			
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		
width of connection bar	17 mm		
thickness of connection bar	3 mm		
diameter of holes	9 mm		
number of holes	1		
connectable conductor cross-section for main contacts			
• stranded	25 120 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)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12		
AWG number as coded connectable conductor cross section			
for auxiliary contacts	18 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		
B10 value with high demand rate according to SN 31920	1 000 000		
T1 value for proof test interval or service life according to IEC 61508	20 a		
·	20 a IP00; IP20 with box terminal/cover		
61508			
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover		
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	IP00; IP20 with box terminal/cover		



Confirmation





<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity
Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping other













other			Railway	
<u>Miscellaneous</u>	Confirmation	<u>Miscellaneous</u>	Vibration and Shock	Special Test Certific-

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=3RT1056-6PF35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6PF35

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6PF35

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

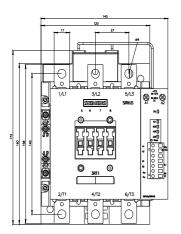
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6PF35&lang=en

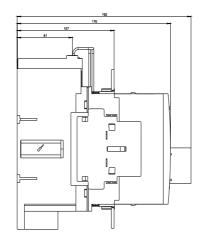
Characteristic: Tripping characteristics, I2t, Let-through current

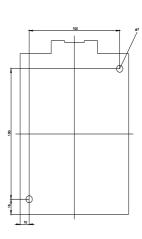
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6PF35/char

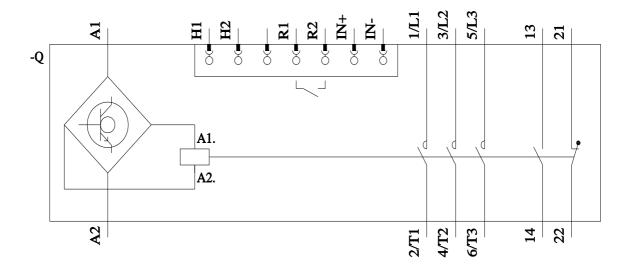
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6PF35&objecttype=14&gridview=view1









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