SIEMENS

Data sheet

3RT1075-6SF36



Power contactor, AC-3 400 A, 200 kW / 400 V Coil AC 50/60 Hz and DC 96-127 V x (0.8-1.1) F-PLC input 24 V DC 3-pole size S12 Auxiliary contacts 2 NO + 2 NC Main circuit: Busbar Control and auxiliary circuit: screw terminal

product designation Power contactor product type designation 3RT1 General technical data size of contactor size of contactor S12 product extension S12	
General technical data size of contactor S12	
size of contactor S12	
product extension	
present exterioren	
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 3.6 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 Soo V value	
surge voltage resistance	
of main circuit rated value 8 kV	
of auxiliary circuit rated value 6 kV	
maximum permissible voltage for safe isolation between 690 V coil and main contacts according to EN 60947-1	
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 / 1	I0 ms
• at DC 13,4g / 5 ms, 6,5g / 1	I0 ms
mechanical service life (switching cycles)	
of contactor typical 10 000 000	
of the contactor with added electronically optimized 5 000 000 auxiliary switch block typical	
of the contactor with added auxiliary switch block 10 000 000 typical	
reference code according to IEC 81346-2 Q	
Substance Prohibitance (Date) 03/01/2017	
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	

platty humidity at 55 °C according to IEC 60089-2-30 maximum 95 % Almo Feruit	relative humidity minimum	10 %
Malh circuit 3 number of ND Contacts for main contacts 3 operating voltage 4 • al AC-3 rated value maximum 1000 V • al AC-1 at 400 V at ambient temperature 40 °C 430 A - rated value 430 A - rated value 400 A - up to 509 V at ambient temperature 40 °C 200 A - rated value 400 A - rated value 400 A - at 400 V rated value </th <th></th> <th>95 %</th>		95 %
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value value minimum cross-section in main circuit at maximum AC-1 rated value 300 mm² operational current for approx. 200000 operating cycles at AC-4 150 A		
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operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 150 A		300 mm ²
• at 400 V rated value 150 A		
• at 400 V rated value 150 A		
	-	150 A
operational current		
• at 1 current path at DC-1		

— at 24 V rated value	400 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 	
— at 24 V rated value	400 A
— at 110 V rated value	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 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 110 V rated value	3 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 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 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	0.10 M
• at AC-2 at 400 V rated value	200 kW
• 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	
• 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	310 000 VA
value	
operating apparent power at AC-6a	

• up to 230 Vfr current peak value m-30 roled value 19 0000 VA 10 000 VA 10 po 500 Vfr current peak value m-30 roled value 20 000 VA 20 000 VF 10 po 500 Vfr current peak value m-30 roled value 20 000 VA 20 000 VA 20 000 VF		
• up to 500 V for current peak value n=30 rated value 20 000 VA 310	 up to 230 V for current peak value n=30 rated value 	100 000 VA
• up to 1000 V for current peak value m-30 rated 310 000 VA • up to 400 V for current peak value m-30 rated 310 000 VA • united to 1 s witching at zero current maximum 6 500 A. Use minimum cross-section acc. to AC-1 rated value • limited to 1 s witching at zero current maximum 6 500 A. Use minimum cross-section acc. to AC-1 rated value • limited to 1 s witching at zero current maximum 6 500 A. Use minimum cross-section acc. to AC-1 rated value • limited to 1 s witching at zero current maximum 2 835 A. Use minimum cross-section acc. to AC-1 rated value • limited to 5 s witching at zero current maximum 2 835 A. Use minimum cross-section acc. to AC-1 rated value • at AC 500 1/h 500 1/h • at AC 500 1/h 500 1/h • at AC-3 maximum 200 1/h 200 1/h • at AC-3 maximum 200 1/h 200 1/h • at AC-3 maximum 500 1/h 500 1/h<	 up to 400 V for current peak value n=30 rated value 	180 000 VA
• up to 1000 V for current peak value n=30 rated value 310 000 VA • Initiated to 1 s witching at zero current maximum 6 600 A. Use minimum cross-section acc to AC-1 rated value • Imited to 1 s switching at zero current maximum 5 761 A. Use minimum cross-section acc to AC-1 rated value • Imited to 3 s switching at zero current maximum 5 761 A. Use minimum cross-section acc to AC-1 rated value • Imited to 3 s switching at zero current maximum 2 835 A. Use minimum cross-section acc to AC-1 rated value • Imited to 3 s switching at zero current maximum 2 835 A. Use minimum cross-section acc to AC-1 rated value • Imited to 3 s switching at zero current maximum 2 835 A. Use minimum cross-section acc to AC-1 rated value • Imited to 3 s switching at zero current maximum 2 835 A. Use minimum cross-section acc to AC-1 rated value • Imited to 3 s switching at zero current maximum 2 800 fh. • Imited to 3 switching at zero current maximum 2 800 fh. • Imited to 3 switching at zero current maximum 2 800 fh. • Imited to 3 switching at zero current maximum 2 800 fh. • Imited to 3 switching at zero current maximum 2 800 fh. • Imited to 3 switching at zero current maximum 2 800 fh. • Imited to 3 switching at zero curent maximum 2 800 fh.	 up to 500 V for current peak value n=30 rated value 	220 000 VA
voice voice short-time withstand current in cold operating state up to 41°C 6 600 A; Use minimum cross-section acc. to AC-1 rated value • Imited to 1 s switching at zero current maximum 5 650 A; Use minimum cross-section acc. to AC-1 rated value • Imited to 0 s switching at zero current maximum 4 143 A; Use minimum cross-section acc. to AC-1 rated value • Imited to 0 s switching at zero current maximum 2 635 A; Use minimum cross-section acc. to AC-1 rated value • Imited to 0 s switching at zero current maximum 2 635 A; Use minimum cross-section acc. to AC-1 rated value • I AC-1 maximum 2 600 1h • at AC 500 1h • at AC 500 1h • at AC-3 maximum 200 1h • at AC-3 maximum 200 1h • at AC-3 maximum 200 1h • at AC-4 rated value 96 127 V • at 00 1/2 rated value 96 127 V • at 00 1/2 rated value 96 127 V • ype of PLC-control input according to IE 6 9947.1 Control supply voltage at AC<	 up to 690 V for current peak value n=30 rated value 	310 000 VA
inductive withstand current in cold operating state jup 64 0°C 600 A; Use minimum cross-section acc to AC-1 rated value 600 A; Use minimum cross-section acc to AC-1 rated value 263 A; Use minimum cross-section acc to AC-1 rated value 263 A; Use minimum cross-section acc to AC-1 rated value 263 A; Use minimum cross-section acc to AC-1 rated value 263 A; Use minimum cross-section acc to AC-1 rated value 263 A; Use minimum cross-section acc to AC-1 rated value 263 A; Use minimum cross-section acc to AC-1 rated value 263 A; Use minimum cross-section acc to AC-1 rated value 263 A; Use minimum cross-section acc to AC-1 rated value 260 th et AC-1 maximum et AC-2 maximum et AC-1 maximum et AC-1 maximum et AC-2 maximum	 up to 1000 V for current peak value n=30 rated 	310 000 VA
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 at 50 Hz at 60 Hz 7 VA 7 VA 7 VA 7 VA 7 VA 9 at 50 Hz 9 at 50 Hz 9 at 60 Hz 0.8 9 at 60 Hz 0.8 0.9 0.9 0.9 0.9 0		0.8
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• at 60 Hz0.8closing power of magnet coil at DC800 Wholding power of magnet coil at DC3.6 Wclosing delay60 75 ms		
closing power of magnet coil at DC 800 W holding power of magnet coil at DC 3.6 W closing delay 60 75 ms	• at 50 Hz	0.8
holding power of magnet coil at DC 3.6 W closing delay 60 75 ms	• at 60 Hz	0.8
holding power of magnet coil at DC 3.6 W closing delay 60 75 ms	closing power of magnet coil at DC	800 W
• at AC 60 75 ms	holding power of magnet coil at DC	3.6 W
	closing delay	
e at DC 60 75 ms	• at AC	60 75 ms
	• at DC	60 75 ms

opening delay	445 400
• at AC	115 130 ms
• at DC	115 130 ms
recovery time after power failure typical	2 s
arcing time	10 15 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	-
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 200 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1A
operational current at DC-12	_ 18
at 24 V rated value	10 A
at 48 V rated value	6 A
at 48 V rated value at 60 V rated value	6 A
at 50 V rated value at 110 V rated value	3A
at 110 V rated value at 125 V rated value	3 A 2 A
at 125 V rated value at 220 V rated value	2 A 1 A
at 600 V rated value	0.15 A
operational current at DC-13	40.4
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	1A
• 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	361 A
at 600 V rated value	382 A
yielded mechanical performance [hp]	
 for 3-phase AC motor 	
— 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 / P600
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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
· · ·	
Installation/ mounting/ dimensions mounting position fastening method	screw fixing
Installation/ mounting/ dimensions mounting position	screw fixing Yes
Installation/ mounting/ dimensions mounting position fastening method	screw fixing
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	screw fixing Yes

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
at contactor for auxiliary contacts of magnet coil	
width of connection bar	Screw-type terminals 25 mm
thickness of connection bar	
	6 mm
diameter of holes	11 mm
number of holes	1
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 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at 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
safety device type according to IEC 61508-2	Туре В
B10 value with high demand rate according to SN 31920	1 000 000
Safety Integrity Level (SIL) according to IEC 61508	2
SIL Claim Limit (subsystem) according to EN 62061	2
performance level (PL) according to EN ISO 13849-1	C
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	93 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
PFHD with high demand rate according to EN 62061	0.0000045 1/h
PFDavg with low demand rate according to IEC 61508	0.007

MTBF			75 y				
hardware fault tolerance according to IEC 61508		0	•				
T1 value for proof test interval or service life according to IEC 61508			20 y				
protection class IP 60529	on the front according	to IEC	IP00; IP20 with box terminal/cover				
touch protection on	the front according to	IEC 60529	finge	r-safe, for vertical conta	ct from the front with b	oox terminal/cover	
suitability for use							
 safety-related s 	-		No				
 safety-related s 	switching OFF		Yes				
Certificates/ approva	ls						
General Product A	pproval					EMC	
() E	CCC	<u>Confirmatio</u>	<u>on</u>		EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certifica	ates		other		
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re		Special Test Certific- ate	<u>Confirmation</u>	<u>Miscellaneous</u>	
other	Railway						
<u>Miscellaneous</u>	Special Test Certific- ate						
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=3RT1075-6SF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6SF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6SF36

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

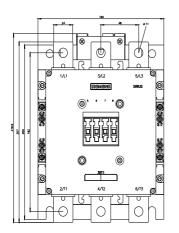
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6SF36&lang=en

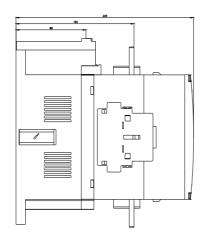
Characteristic: Tripping characteristics, I²t, Let-through current

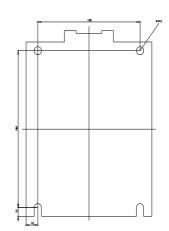
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6SF36/char

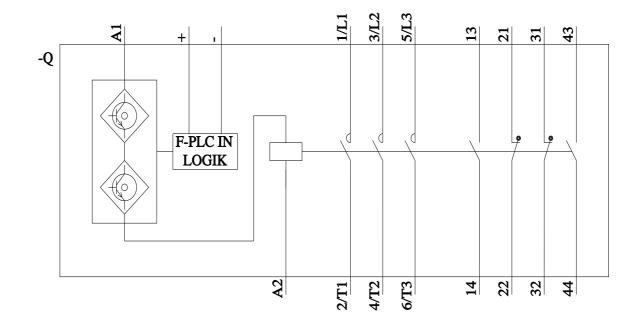
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6SF36&objecttype=14&gridview=view1









3/24/2022 🖸