SIEMENS

Data sheet

3RT1075-6LA06



power contactor, AC-3e/AC-3 400 A, 200 kW / 400 V without operating mechanism 3-pole, auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power 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
type of calculation of power loss depending on pole	quadratic
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
SVHC substance name	Lead - 7439-92-1
Weight	9.114 kg
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 %
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	1000 V
at AC-1 at 400 V at ambient temperature 40 °C rated	430 A
value	100 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	430 A
value	
— up to 690 V at ambient temperature 60 °C rated	400 A
value	200 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
— up to 1000 V at ambient temperature 60 °C rated	200 A
value	
• 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	
 — 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	180 A
value	
● 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	180 A
value	200 mm ²
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm²
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 	
— 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	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	
 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 value 	310 000 VA
short-time withstand current in cold operating state up to	

• Indicide of servicing at zoro current maximum0000 A: Use minimum cross-section acc. to AC-1 rated value• Indica to Se structing at zoro current maximum2513 A: Use minimum cross-section acc. to AC-1 rated value• Indica to Se structing at zoro current maximum2533 A: Use minimum cross-section acc. to AC-1 rated value• Indica to Se structing at zoro current maximum2638 A: Use minimum cross-section acc. to AC-1 rated value• Indica de value2000 1h• Indica de value2000 1h• Indica de value2001 1h• Indica de value2001 1h• Indica de value2001 1h• Indica rated walue2001 1h•	40 °C	
• • • • • • • • • • • • • • • • • • •		6 600 A; Use minimum cross-section acc. to AC-1 rated value
• Initial to 0.5 soluting at zero current maximum 4 433.4 Use minimum coss-section acc. to AC-1 rated value • Initial to 80 soluting at zero current maximum 2 635.4 Use minimum coss-section acc. to AC-1 rated value • InAC 2 000 1/h • InAC 2 000 1/h • InAC 2 000 1/h • InAC-1 maximum 200 1/h • InAC-1 maximum 200 1/h • InAC-1 maximum 200 1/h • InAC-2 maximum 200 1/h • InAC-3 maximum 200 1/h • InAC-4 maximum 200 1/h • InAC-4 maximum 200 1/h • InAC 45	-	
• Finded b 03 e witching at zero current maximum 2003 A, Use minimum coss-section act. to AC-1 nated value • IAC 2000 1A • e IAC-I maximum 200 1A • e IAC-I maximum 500 1A • e IAC 45	-	
• elimide to 03 e subliming at zero current maximum208 A Use minimum cross-section acc. to AC-1 naled value• el AC2000 1h• el AC2000 1h• el AC2000 1h• el AC-1 maximum2001 h• el AC-2 maximum200 th• el AC-3 maximum200 th• el AC-3 maximum500 th• el AC-4 maximum500 th• el AC-3 maximum500 th• el AC-4 maximum500 th• el AC45 100 ms• el AC60 100 ms• el AC7• el AC60 100 ms• el AC60 100 ms• el AC7• el AC 10 maximum10 AOperational current at AC-12 maximum10 A• operational current at AC-137• el AC 10 maximum10 A• operational current at AC-146A• el AC 14 wabe6A• el AC 14 wabe6A<	-	
no-lack witching frequency 2000 1/n e IAC 2000 1/n operating frequency 2000 1/n e IAC-1 maximum 200 1/n e IAC-1 maximum 200 1/n e IAC-1 maximum 200 1/n e IAC-1 maximum 500 m e IAC 45100 ms e IAC 60100 ms e I	-	
• AAC2 2000 1hoperating frequency2000 1h• (AAC-1 maximum700 1h• (AAC-1 maximum200 1h• (AAC-1 maximum200 1h• (AAC-3 maximum200 1h• (AAC-3 maximum200 1h• (AAC-3 maximum200 1h• (AAC-4 maximum2• (AAC-4 maximum2• (AAC-4 maximum2• (AAC-4 maximum2• (AAC-4 maximum2A• (AAC-4 ma	0	
• + II C.2000 1%operating frequency•• + II AC-1 maximum200 1%• + II AC-2 maximum200 1%• + II AC-3 maximum500 1%• + II AC-3 maximum500 1%• + II AC-4 maximum500 1%• + II AC45 100 ms• + II AC60 100 ms• + II AC700 1%• + II AC + II AC + II700 1%• + II AC + II AC +		2 000 1 <i>/</i> b
operating frequency A AC-1 maximum A AC-1 maximum A AC-3 maximum B AC-3 maximum B AC-3 maximum B AC-4 maximum		
i Al AC-1 maximum700 thi Al AC-2 maximum200 thi Al AC-3e maximum500 thi Al AC-3e maximumACIDCclosing dataget Control supply voltageACIDCclosing dataget Control45 100 ms- et I AC-160 100 ms- et I AC-160 100 ms- et I AC-160 100 ms- et I AC-115 ms- control version of the switch operating mechanism2Arrillarg vierciti10 A- et I AD-110 Aoperational current at AC-12 maximum10 A- et I AD V rated value3 A- et I AD V rated value3 A- et I AD V rated value10 A- et I AD V rated value3 A-		2 000 1/11
• Al AC2 maximum200 fh• Al AC3 maximum500 fh• Al AC4 maximumACDCclosing delayACDC• al AC60 100 ms• al AC70 ms• al AC100 ms• al AC2• al AC100 ms• al AC		700.4/h
• a1 AC-3 maximum500 th• a1 AC-3 maximum500 th• a1 AC-3 maximum500 th• a1 AC-3 maximum500 th• a1 AC-3 maximumAC/IC CControl cearly ControlAC/IC Ccharacterit Control supply voltageAC/IC Copening delay-• • • • • • • • • • • • • • • • • • •		
at AC-3 maximum 500 1/h at AC-4 maximum 130 1/h cohral circuit Cohrol AC-100 type of voltage of the control supply voltage AC/100 colain gelany		
• at AC-4 maximum130 l/hControl supply voltageAC/ICCclosing delay45 100 ms• at AC45 100 ms• at AC45 100 ms• at AC60 100 ms• at AC70 100 ms• at 300 V rated value70 100 100 A• at 300 V rated value70 A• at 300 V rated val		
Control circuit/ Control AC/DC (closing delay 45 100 ms • at AC 45 100 ms • at AC 60 100 ms • at AC 60 100 ms • at AC 60 100 ms • at CC 60 100 ms • at Contracts for auxiliary contacts instantaneous 2 • at 230 V rated value 6A • at 200 V rated value 6A • at 600 V rated value <td< td=""><td></td><td></td></td<>		
Type of voltage of the control supply voltage AC/DC closing delay 43 100 ms • at DC 45 100 ms • at DC 65 100 ms • at DC 60 100 ms contact 7 ourser of NC contacts for auxiliary contacts instantaneous contact 2 ourser of NC contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A ot 200 Vrated value 2 A • at 200 Vrated value 2 A • at 20 Vrated value 2 A<		130 1/h
closing delay 4.7.0 • at AC 45 100 ms • at CC 45 100 ms • at AC 60 100 ms • at CC 60 100 ms • at DC 60 100 ms • at CC 7 contract 7 control version of the switch operating mechanism 2 number of NC contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A opperational current at AC-12 maximum 10 A opperational current at AC-12 maximum 10 A • at 230 V rated value 6 A • at 230 V rated value 10 A • at 240 V rated value 6 A • at 250 V rated value 10 A • at 260 V rated value 10 A • at 800 V rated value 10		
• at AC 45 100 ms • at DC 45 100 ms • at DC 60 100 ms • at AC 60 100 ms • at DC 60 100 ms • at DC 60 100 ms arcing time 10 15 ms control version of the switch operating mechanism Without operating mechanism Auxiliary criterion 2 number of NC contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A ot 100 V rated value 2 A <td></td> <td>AC/DC</td>		AC/DC
• at DC45 100 msoparing delay60 100 ms• at DC60 100 ms• at DC100 ms• arcing time10 100 ms• arcing time10 100 ms• arcing time10 100 ms• arcing time2• arcing time2• arcing time2• arcing time10 A• operational current at AC-12 maximum10 A• operational current at AC-12 maximum3 A• at 200 V rated value6 A• at 200 V rated value2 A• at 600 V rated value3 A• at 600 V rated value6 A• at 600 V rated value7 A• at 600 V rated value7 A• at 600 V rated value7 A• at 600 V rated value10 A• at 600 V rated value2 A• at 600 V rated value3 A• at 600 V rated value		
opening delay et AC 60 100 ms et AC 60 100 ms arcing time 10 15 ms control version of the switch operating mechanism Without operating mechanism Auxiliary circuit 2 number of NC contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 6 A et 230 V rated value 3 A et 300 V rated value 3 A et 690 V rated value 10 A operational current at AC-15 6 A et 690 V rated value 3 A et 690 V rated value 2 A et 690 V rated value 4 A et 690 V rated value 10 A et 42 V rated value 2 A et 60 V rated value 2 A et 60 V rated value 3 A et 60 V rated value 3 A et 60 V rated value 3 A et 60 V rated value 2 A et 60 V rated value 3 A et 60 V rated value 3 A et 60 V rated value 3 A <td></td> <td></td>		
• et AC 60 100 ms • at DC 60 100 ms arcing time 10 15 ms control version of the switch operating mechanism Without operating mechanism Auxiliary oricuit 2 number of KC contacts for auxiliary contacts instantaneous 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 600 V rated value 2 A • at 600 V rated value 6 A • at 600 V rated value 10 A operational current at DC-12 - • at 600 V rated value 3 A • at 600 V rated value 6 A • at 60 V rated value 6 A • at 60 V rated value 6 A • at 100 V rated value 10 A • at 80 V rated value 6 A • at 100 V rated value 6 A • at 20 V rated value 0 A • at 40 V rated value 0 A • at 40 V rated value 0 A		45 100 ms
• et DC60 100 msarcing time10 15 mscontrol version of the switch operating mechanismWithout operating mechanismAuxiliary circuit2number of NC contacts for auxiliary contacts instantaneous contact2operational current at AC-12 maximum10 Aoperational current at AC-12 maximum10 Aoperational current at AC-12 maximum6 A• at 200 V rated value3 A• at 200 V rated value10 Aoperational current at AC-15•• at 200 V rated value3 A• at 200 V rated value10 Aoperational current at DC-12•• at 24 V rated value6 A• at 24 V rated value6 A• at 25 V rated value10 A• at 24 V rated value6 A• at 25 V rated value10 A• at 260 V rated value2 A• at 27 V rated value2 A• at 28 V rated value2 A• at 29 V rated value3 A• at 20 V rated value2 A• at 20 V rated value2 A• at 20 V rated value3 A• at 20 V rated value2 A• at 20 V rated value3 A• at 20 V rated value3 A• at 20 V rated value3 A<		
arcing time 10 15 ms control version of the switch operating mechanism Without operating mechanism Auxiliary circuit 1 number of NC contacts for auxiliary contacts instantaneous 2 contact 2 contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 6 e at 200 V rated value 2 A e at 600 V rated value 2 A e at 600 V rated value 10 A operational current at DC-12 • e at 600 V rated value 2 A e at 60 V rated value 10 A operational current at DC-12 • e at 23 V rated value 10 A operational current at DC-12 • e at 60 V rated value 6 A e at 60 V rated value 10 A e at 220 V rated value 10 A e at 220 V rated value 10 A e at 60 V rated value 2 A e at 220 V rated value 2 A e at 220 V rated value 2 A e at 220 V rated value 2 A e at 24 V rated value 2 A <	● at AC	60 100 ms
control version of the switch operating mechanism Without operating mechanism Auxiliary circuit Import of NC contacts for auxiliary contacts instantaneous contact 2 number of NO contacts for auxiliary contacts instantaneous contacts contacts for auxiliary contacts instantaneous contact instantaneous contacts instantaneous contacts instantaneous contacts instantaneous contacts instantaneous contact instantaneous contacts instantaneous contacts instantaneous contaneous contacts instantaneous contact instantaneous contacts insta	● at DC	60 100 ms
Auxiliary circuit 2 number of NC contacts for auxiliary contacts instantaneous contacts 2 operational current at AC-12 maximum 10 A operational current at AC-15 6 A • at 230 V rated value 6 A • at 600 V rated value 10 A operational current at AC-12 maximum 10 A operational current at AC-15 6 A • at 400 V rated value 2 A • at 600 V rated value 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A • at 800 V rated value 2 A • at 800 V rated value 10 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 1 A • at 80 V rated value 1 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 3 A • at 80 V ra	arcing time	10 15 ms
number of NC contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 6 A • at 230 V rated value 6 A • at 600 V rated value 2 A • at 600 V rated value 10 A operational current at DC-12 10 A • at 24 V rated value 2 A • at 24 V rated value 1 A operational current at DC-12 10 A • at 48 V rated value 6 A • at 24 V rated value 6 A • at 24 V rated value 6 A • at 25 V rated value 6 A • at 10 V rated value 2 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 20 V rated value 2 A • at 20 V rated value 10 A • at 20 V rated value 2 A • at 20 V rated value 10 A • at 20 V rated value 2 A • at 60 V rated value 2 A • at 10 V rated value 3 A • at 20 V rated value 3 A • at 20 V rated value 3 A <t< td=""><td>control version of the switch operating mechanism</td><td>Without operating mechanism</td></t<>	control version of the switch operating mechanism	Without operating mechanism
contact 2 number of NO contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 6 A • at 200 V rated value 6 A • at 600 V rated value 2 A • at 600 V rated value 1 A operational current at DC-12	Auxiliary circuit	
contact Image: contact of the second se		2
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		2
• at 230 V rated value6 A• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12-• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value3 A• at 60 V rated value3 A• at 110 V rated value2 A• at 22 V rated value1 A• at 60 V rated value2 A• at 125 V rated value2 A• at 220 V rated value1 A• at 220 V rated value0.15 Aoperational current at DC-13-• at 24 V rated value10 A• at 48 V rated value2 A• at 20 V rated value0.15 Aoperational current at DC-13-• at 24 V rated value0.1 A• at 25 V rated value0.3 A• at 110 V rated value0.3 A• at 125 V rated value0.3 A• at 20 V rated value0.3 A• at 20 V rated value0.3 A• at 480 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)ULCSA ratings-full-load current (FLA) for 3-phase AC motor-• at 480 V rated value361 A• at 480 V rated value382 Ayielded mechanical performance [hp]-• of 3-phase AC motor at 200208 V rated value125 hp	operational current at AC-12 maximum	10 A
• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12-• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 10 V rated value1 A• at 220 V rated value0.15 A• at 60 V rated value2 A• at 60 V rated value2 A• at 220 V rated value0.15 A• at 60 V rated value0.15 A• at 60 V rated value2 A• at 60 V rated value0.4• at 220 V rated value0.4• at 220 V rated value0.4• at 220 V rated value0.4• at 60 V rated value10 A• at 60 V rated value10 A• at 60 V rated value2 A• at 60 V rated value10 A• at 40 V rated value10 A• at 40 V rated value1 A• at 40 V rated value0.9 A• at 10 V rated value0.3 A• at 60 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value361 A• at 600 V rated value3	operational current at AC-15	
• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12.• at 24 V rated value6 A• at 44 V rated value6 A• at 45 V rated value6 A• at 60 V rated value3 A• at 10 V rated value1 A• at 25 V rated value1 A• at 200 V rated value0.15 Aoperational current at DC-13.• at 24 V rated value2 A• at 24 V rated value10 A• at 60 V rated value2 A• at 24 V rated value2 A• at 24 V rated value2 A• at 24 V rated value0.15 Aoperational current at DC-13.• at 24 V rated value0 A• at 60 V rated value0 A• at 24 V rated value0.10 A• at 60 V rated value0.9 A• at 60 V rated value0.3 A• at 60 V rated value0.14 A• at 40 V rated value0.14 A• at 60 V rated value0.15 A• at 60 V rated value0.14 A• at 60 V rated value0.14 A• at 60 V rated value361 A• at 60 V rated value361 A• at 60 V rated value362 A• at 60 V rated value362 A• at 60 V rated value362 A• at 60 V rated valu	• at 230 V rated value	6 A
• at 690 V rated value1 Aoperational current at DC-12	• at 400 V rated value	3 A
operational current at DC-12 • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 20 V rated value • at 24 V rated value • at 48 V rated value • at 49 V rated value • at 40 V rated value • at 60 V rated value • at 40 V rated value <t< td=""><td>• at 500 V rated value</td><td>2 A</td></t<>	• at 500 V rated value	2 A
• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 110 V rated value2 A• at 25 V rated value0.15 A• operational current at DC-13•• at 24 V rated value10 A• at 24 V rated value2 A• at 24 V rated value0.15 A• operational current at DC-13•• at 24 V rated value10 A• at 24 V rated value2 A• at 24 V rated value0.9 A• at 25 V rated value0.9 A• at 20 V rated value0.1 A• at 220 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value361 A• at 600 V rated value362 A• at 600 V rated value362 A• at 600 V rated value361 A• at 600 V rated value362 A	• at 690 V rated value	1 A
• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A• operational current at DC-130• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value0.9 A• at 220 V rated value0.3 A• at 220 V rated value0.1 A• at 600 V rated value361 A• at 600 V rated value361 A• at 480 V rated value382 A• yielded mechanical performance [np]125 hp	operational current at DC-12	
• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-130• at 42 V rated value10 A• at 43 V rated value2 A• at 60 V rated value0.9 A• at 10 V rated value0.3 A• at 220 V rated value0.1 A• at 600 V rated value3 A• at 600 V rated value361 A• at 480 V rated value382 A• yielded mechanical performance [hp]382 A• for 3-phase AC motor125 hp	• at 24 V rated value	10 A
• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-13•• at 24 V rated value10 A• at 24 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 110 V rated value0.9 A• at 220 V rated value0.1 A• at 60 V rated value0.1 A• at 60 V rated value0.1 A• at 60 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value361 A• at 80 V rated value361 A• at 600 V rated value362 A• yielded mechanical performance [hp]125 hp	• at 48 V rated value	6 A
e at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-13•• at 24 V rated value10 A• at 24 V rated value2 A• at 80 V rated value2 A• at 60 V rated value2 A• at 10 V rated value0.9 A• at 220 V rated value0.3 A• at 220 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsfull-load current (FLA) for 3-phase AC motor361 A• at 600 V rated value361 A• at 600 V rated value362 Ayielded mechanical performance [hp]125 hp	• at 60 V rated value	6 A
• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-13I• at 24 V rated value10 A• at 24 V rated value2 A• at 80 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 600 V rated value361 A• at 600 V rated value382 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value125 hp	• at 110 V rated value	3 A
• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-13I• at 24 V rated value10 A• at 24 V rated value2 A• at 80 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 600 V rated value361 A• at 600 V rated value382 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value125 hp	• at 125 V rated value	2 A
e at 600 V rated value0.15 Aoperational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value361 A• at 600 V rated value382 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value125 hp		
operational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 60 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 600 V rated value361 A• at 600 V rated value382 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value125 hp		
• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratings361 A• at 600 V rated value382 A• yielded mechanical performance [hp]125 hp		
 at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value 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 600 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 	-	10 A
• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A• contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratings1full-load current (FLA) for 3-phase AC motor361 A• at 600 V rated value362 A• at 600 V rated value382 Ajelded mechanical performance [hp]125 hp		
• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value361 A• at 600 V rated value382 Ayielded mechanical performance [hp]		
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value361 A• at 600 V rated value382 Ayielded mechanical performance [hp]382 A• for 3-phase AC motor125 hp		
• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value361 A• at 600 V rated value382 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value125 hp		
• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratings301 Afull-load current (FLA) for 3-phase AC motor361 A• at 480 V rated value362 A• at 600 V rated value382 Ayielded mechanical performance [hp]125 hp		
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		
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		
full-load current (FLA) for 3-phase AC motor 361 A • 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		r rauity switching per 100 million (17 V, 1 mA)
• 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 600 V rated value 382 A yielded mechanical performance [hp] - at 200/208 V rated value - at 200/208 V rated value 125 hp		
yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value 125 hp		
for 3-phase AC motor		382 A
— at 200/208 V rated value 125 hp	yielded mechanical performance [hp]	
	 for 3-phase AC motor 	
— at 220/230 V rated value 150 hp	— at 200/208 V rated value	125 hp
	— at 220/230 V rated value	150 hp

at 460/400 V/ rated value	200 hr
- 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 surface
	+/- 22.5° tiltable to the front and back
fastening method side-by-side mounting	Yes
fastening method	screw fixing
height	214 mm
width	160 mm
depth	225 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	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of connectable conductor cross-sections	
 for 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 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)
— 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 mm ²), 2x (0.75 2.5 mm ²)
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 ad 	ccording to IEC 60947-4-1	Yes			
 positively driven 	operation according to IEC	60947-5-1 No			
 suitable for safet 	ty function	Yes			
uitability for use safety	y-related switching OFF	Yes			
service life maximum		20 a	3		
est wear-related serv	vice life necessary	Yes			
proportion of danger	ous failures				
 with low demand 	d rate according to SN 3192	40 9	%		
 with high deman 	d rate according to SN 319	20 73 9	%		
310 value with high d	lemand rate according to	SN 31920 1 00	000 000		
ailure rate [FIT] with 31920	low demand rate accordi	ng to SN 100	FIT		
SO 13849					
device type according	a to ISO 13849-1	3			
	cording to ISO 13849-2 ne				
EC 61508	U				
	cording to IEC 61508-2	Тур	e A		
Electrical Safety		51			
protection class IP or	n the front according to IE	EC 60529 IP00	0; IP20 with box terminal/co	ver	
ouch protection on t	he front according to IEC	60529 fing	er-safe, for vertical contact	from the front with box ter	minal/cover
oprovals Certificates General Product App	oroval	UK	Confirmation	س	c 0 r
	oroval CE EG-Konf.	UK CA	Confirmation	(UL)	EAC
General Product App	CE EG-Konf.		Confirmation	UL UL	EAC
	CE	UK CA Test Certificates	Confirmation	UL UL	EAC
General Product App	CE EG-Konf.		Confirmation Special Test Certific- ate	Warine / Shipping	EHC Div
General Product App	EG-Konf. Functional Saftey	Test Certificates	Special Test Certific-		ERC Div
General Product App CCC EMV	EG-Konf. Functional Saftey	Test Certificates	Special Test Certific- ate		Effic Effic
General Product App	EG-Konf. Functional Saftey	Test Certificates	Special Test Certific- ate	ABS	EFFC

 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://support.automation.siemens.com/mall/en/catalog/product?mlfb=3RT1075-6LA06

 Cax online generator

 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6LA06

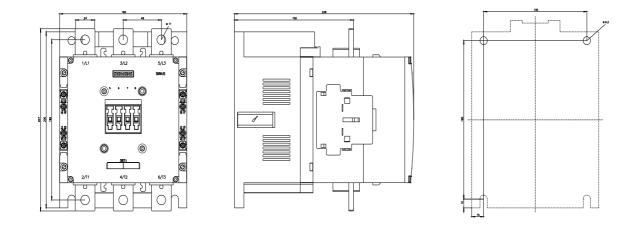
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

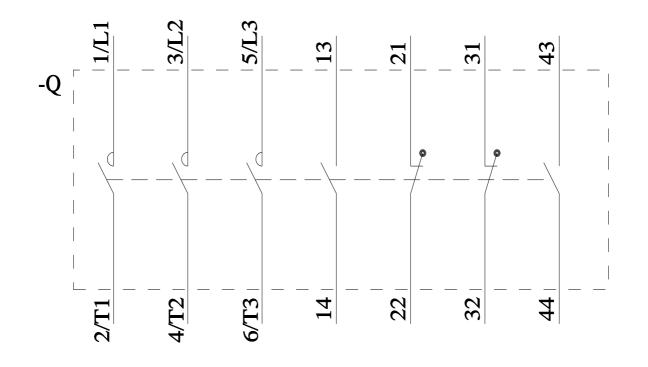
 https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6LA06

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

 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6LA06&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6LA06/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6LA06&objecttype=14&gridview=view1





last modified:

7/19/2024 🖸