## **SIEMENS**

Data sheet 3RT1055-6AB36

SIRIUS





power contactor, AC-3e/AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC Uc: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal



product designation product type designation 3RT1  General technical data size of contactor  product extension • function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical  type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of aixiliary circuit with degree of pollution 3 rated value • of aixiliary circuit vith degree of pollution 3 rated value • of aixiliary circuit rated value • a t AC • at DC • of contactor by pical • of the contactor with added electronically optimized • of the contactor with added electronically optimized • of the contactor with added electronically optimized	P	
Secontactor   Secontactor   Secontactor   Secontactor   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   27 W   At AC in hot operating state   27 W   At AC in hot operating state   Secondary   Seconda	product designation	Power contactor
size of contactor  product extension  • function module for communication  • auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state  • at AC in hot operating state per pole  • without load current share typical  type of calculation of power loss depending on pole  insulation voltage  • of main circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of main circuit rated value  • of auxiliary circuit rated value  • of auxiliary circuit rated value  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at DC  • at DC  shock resistance with sine pulse  • at AC  shock resis	product type designation	3RT1
product extension  • function module for communication • auxiliary switch  Power loss [W] for rated value of the current • at AC in hot operating state	General technical data	
• function module for communication     • auxiliary switch     Power loss [W] for rated value of the current     • at AC in hot operating state     • at AC in hot operating state per pole     • without load current share typical     type of calculation of power loss depending on pole     insulation voltage     • of main circuit with degree of pollution 3 rated value     • of auxiliary circuit with degree of pollution 3 rated value     • of auxiliary circuit with degree of pollution 3 rated value     • of auxiliary circuit rated value     • of suxiliary circuit rated value     • of auxiliary circuit rated value     • of auxiliary circuit rated value     • of suxiliary circuit rated value     • of suxiliary circuit rated value     • of auxiliary circuit rated value     • of auxiliary circuit rated value     • of suxiliary	size of contactor	S6
auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state  at AC in hot operating state per pole  without load current share typical  type of calculation of power loss depending on pole insulation voltage  of main circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  of auxiliary circuit rated	product extension	
power loss [W] for rated value of the current  • at AC in hot operating state 27 W  • at AC in hot operating state per pole 9 W  • without load current share typical 5.2 W  type of calculation of power loss depending on pole insulation voltage  • of main 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  shock resistance at rectangular impulse  • at AC 8,5g / 5 ms, 4,2g / 10 ms  shock resistance with sine pulse  • at AC 13,4g / 5 ms, 6,5g / 10 ms  shock resistance with sine pulse  • at AC 13,4g / 5 ms, 6,5g / 10 ms  shock resistance with sine pulse  • at DC 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 5 000 000	<ul> <li>function module for communication</li> </ul>	No
at AC in hot operating state at AC in hot operating state per pole without load current share typical  type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit rated value o	auxiliary switch	Yes
at AC in hot operating state per pole  without load current share typical  type of calculation of power loss depending on pole  insulation voltage  of main circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  of auxiliary circuit rated value  surge voltage resistance  of main circuit rated value  of auxiliary circuit rate	power loss [W] for rated value of the current	
without load current share typical      type of calculation of power loss depending on pole     insulation voltage         of main circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of main circuit rated value         of main circuit rated value         of auxiliary circuit rated value         of waxiliary circuit rated value         of waxi	<ul> <li>at AC in hot operating state</li> </ul>	27 W
type of calculation of power loss depending on pole insulation voltage  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value of avximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse of at AC of at DC shock resistance with sine pulse of AC of Contactor with sine pulse of contactor typical of the contactor with added electronically optimized of the contactor with added electronically optimized	<ul> <li>at AC in hot operating state per pole</li> </ul>	9 W
insulation voltage  • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance  • of main circuit rated value  • of auxiliary circuit rated value  6 kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 4,2g / 10 ms  shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 6,5g / 10 ms  • at DC  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized  5 000 000	without load current share typical	5.2 W
of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     oat AC     of auxiliary circuit rated value     of kV  690 V	type of calculation of power loss depending on pole	quadratic
of auxiliary circuit with degree of pollution 3 rated value      surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of kV      of auxiliary circuit rated value     of kV      of kV      of by V      of contact according to EN 60947-1      shock resistance at rectangular impulse     of contactor typical     of contactor typical     of the contactor with added electronically optimized      substituting the state of the contactor with added electronically optimized      substituting the state of the contactor with added electronically optimized      substituting the state of the contactor with added electronically optimized	insulation voltage	
surge voltage resistance  of main circuit rated value  of auxiliary circuit rated value  for kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  output at AC  at DC  shock resistance with sine pulse  output at AC	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>6 kV</li> <li>maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1</li> <li>shock resistance at rectangular impulse</li> <li>at AC</li> <li>at DC</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>at DC<td><ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul></td><td>500 V</td></li></ul>	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
<ul> <li>of auxiliary circuit rated value</li> <li>maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1</li> <li>shock resistance at rectangular impulse</li> <li>at AC</li> <li>at DC</li> <li>8,5g / 5 ms, 4,2g / 10 ms</li> <li>at DC</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at AG</li> <li>at DC</li> <li>at AG / 5 ms, 6,5g / 10 ms</li> <li>at DC</li> <li>at AG / 5 ms, 6,5g / 10 ms</li> <li>at DC</li> <li>at DC</li> <li>at AG / 5 ms, 6,5g / 10 ms</li> <li>at DC</li> <li>at DC<!--</td--><td>surge voltage resistance</td><td></td></li></ul>	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 6,5g / 10 ms  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized  690 V  690 V  690 V  8,5g / 5 ms, 4,2g / 10 ms  8,5g / 5 ms, 4,2g / 10 ms  13,4g / 5 ms, 6,5g / 10 ms  13,4g / 5 ms, 6,5g / 10 ms	of main circuit rated value	8 kV
coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  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  • of the contactor with added electronically optimized  5 000 000	of auxiliary circuit rated value	6 kV
<ul> <li>at AC</li> <li>at DC</li> <li>8,5g / 5 ms, 4,2g / 10 ms</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>13,4g / 5 ms, 6,5g / 10 ms</li> <li>at DC</li> <li>13,4g / 5 ms, 6,5g / 10 ms</li> <li>mechanical service life (operating cycles)</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized</li> <li>5 000 000</li> </ul>		690 V
<ul> <li>at DC</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>13,4g / 5 ms, 6,5g / 10 ms</li> <li>at DC</li> <li>13,4g / 5 ms, 6,5g / 10 ms</li> <li>mechanical service life (operating cycles)</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized</li> <li>5 000 000</li> </ul>	shock resistance at rectangular impulse	
shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 6,5g / 10 ms  13,4g / 5 ms, 6,5g / 10 ms  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized  5 000 000	• at AC	8,5g / 5 ms, 4,2g / 10 ms
<ul> <li>at AC</li> <li>at DC</li> <li>13,4g / 5 ms, 6,5g / 10 ms</li> <li>mechanical service life (operating cycles)</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized</li> <li>5 000 000</li> </ul>	• at DC	8,5g / 5 ms, 4,2g / 10 ms
<ul> <li>at DC</li> <li>mechanical service life (operating cycles)</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized</li> <li>5 000 000</li> </ul>	shock resistance with sine pulse	
mechanical service life (operating cycles)	• at AC	13,4g / 5 ms, 6,5g / 10 ms
<ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized</li> <li>5 000 000</li> </ul>	• at DC	13,4g / 5 ms, 6,5g / 10 ms
• of the contactor with added electronically optimized 5 000 000	mechanical service life (operating cycles)	
	of contactor typical	10 000 000
auxiliary switch block typical	<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
• of the contactor with added auxiliary switch block typical 10 000 000	of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2 Q	reference code according to IEC 81346-2	Q
Substance Prohibitance (Date) 05/01/2012	Substance Prohibitance (Date)	05/01/2012
SVHC substance name Lead - 7439-92-1	SVHC substance name	Lead - 7439-92-1
Weight 3.365 kg	Weight	3.365 kg
Ambient conditions	Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	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 %
Environmental footprint	
Global Warming Potential [CO2 eq] total	379 kg
Global Warming Potential [CO2 eq] during manufacturing	17 kg
global warming potential [CO2 eq] during sales	0.901 kg
Global Warming Potential [CO2 eq] during operation	363 kg
Global Warming Potential [CO2 eq] after end of life	-2.28 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	185 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	185 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	160 A
<ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	90 A
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul>	90 A
• at AC-3	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
• at AC-4 at 400 V rated value	132 A
at AC-5a up to 690 V rated value	162 A
at AC-5b up to 400 V rated value	124 A
• at AC-6a	450 A
— up to 230 V for current peak value n=20 rated value	150 A
— up to 400 V for current peak value n=20 rated value	150 A
— up to 500 V for current peak value n=20 rated value	150 A
— up to 690 V for current peak value n=20 rated value	150 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	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
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	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	
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul>	68 A 57 A

operational current	
at 1 current path at DC-1	400 A
— 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
with 2 current paths in series at DC-1  at 24 V rated value	400 A
— at 60 V rated value	160 A 160 A
— at 100 V rated value  — at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value  — 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	1.0 A
— 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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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	45.111
— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
— at 1000 V rated value	90 kW
• at AC-3e	AE DAM
— at 230 V rated value	45 kW
— at 400 V rated value — at 500 V rated value	75 kW 90 kW
— at 690 V rated value  — at 690 V rated value	132 kW
— at 1000 V rated value  — at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-	33 MI
4	
• at 400 V rated value	38 kW
at 690 V rated value	55 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
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	130 000 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	170 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	110 000 VA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	40 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	70 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	90 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	120 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	110 000 VA
short-time withstand current in cold operating state up to	
40 °C	2.727 A. Llas minimum gross section ago to AC 1 retad value
limited to 1 s switching at zero current maximum	2 727 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	1 831 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	1 300 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	850 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 60 s switching at zero current maximum  Polload switching frequency  Polload switching	703 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency  • at AC	2 000 1/h
• at AC • at DC	2 000 1/h 2 000 1/h
	2 000 1/11
operating frequency  • at AC-1 maximum	800 1/h
at AC-1 maximum     at AC-2 maximum	300 1/h
at AC-2 maximum     at AC-3 maximum	750 1/h
at AC-3 maximum     at AC-3e maximum	750 1/h
at AC-3e maximum     at AC-4 maximum	130 1/h
Control circuit/ Control	100 1/11
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	AOIDO
at 50 Hz rated value	23 26 V
at 60 Hz rated value	23 26 V
control supply voltage at DC rated value	23 26 V
operating range factor control supply voltage rated value of	20 20 V
magnet coil at DC	
initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated 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	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	250 VA
— at 60 Hz	250 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	300 VA
— at 50 Hz	300 VA
apparent pick-up power of magnet coil at AC	000.1/4
• at 50 Hz	300 VA
• at 60 Hz	300 VA
inductive power factor with closing power of the coil	0.0
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	4.2.1/0
at minimum rated control supply voltage at DC	4.3 VA
at maximum rated control supply voltage at DC	5.2 VA
apparent holding power	
at minimum rated control supply voltage at AC	40.1/4
— at 50 Hz	4.8 VA
— at 60 Hz  at maximum rated control supply voltage at AC	4.8 VA
<ul> <li>at maximum rated control supply voltage at ΔC</li> </ul>	

— at 50 Hz	5.8 VA
— at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.8
● at 60 Hz	0.8
closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	
• at AC	40 60 ms
• at DC	40 60 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous 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	1071
at 230 V rated value	6 A
at 400 V rated value	3 A
at 400 V rated value      at 500 V rated value	2 A
	1 A
at 690 V rated value	I A
operational current at DC-12	40.4
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 60 V rated value</li> </ul>	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	156 A
• at 600 V rated value	144 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	50 hp
— at 220/230 V rated value	60 hp
— at 460/480 V rated value	125 hp
— at 575/600 V rated value	150 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 (415 V, 50
575 or addigitations 2 roquired	32.2.3.7.(000 -, .00 to .), same 2007 (000 -, 00 to .), book. 0107 (410 - v, 00

• for short-circuit protection of the auxiliary switch required		kA)
International mounting dimensions   With vertical mounting surface + 400" rotatable, with vertical mounting surface   400" rotatable, with vertical mounting   400 mm   400" rotatable, with vertical purposes   400 mm   400" rotatable, with vertical mounting   400 mm   400" rotatable, with vertical purposes   400 mm   400" rotatable, with vertical mounting   400 mm   400" rotatable, vertical purposes   400" r	- for about aircuit protection of the auxilian availab required	•
Mounting position		gG: 10 A (500 V, 1 kA)
1.00   1.00	Installation/ mounting/ dimensions	
Mesight	mounting position	
belght         172 mm           with depth         120 mm           required spacing         70 mm           required spacing         with side by-side mounting           - with side by-side mounting         20 mm           - phywards         10 mm           - phywards         10 mm           - all the side         00 mm           - for grounded parts         10 mm           - phywards         10 mm           - phywards         10 mm           - phywards         10 mm           - downwards         10 mm           - downwards         10 mm           - for live parts         20 mm           - for main current circuit         Connection bar           - for main current circuit         Sorew-type terminals           + for main current circuit         Sorew-type terminals           + for main current circuit         Sorew-type terminals           - for auxiliary contacts         Srew-type terminals           a contacting for auxiliary c	fastening method side-by-side mounting	Yes
width         120 mm           depth         770 mm           required spacing         ****           * with side-by-side mounting         20 mm           — forwards         20 mm           — opwards         10 mm           — forwards         20 mm           — forwards         20 mm           — forwards         20 mm           — at the side         10 mm           — at the side         10 mm           — at the side         10 mm           — forwards         20 mm           — forwards         10 mm           — forwards         20 mm	fastening method	screw fixing
depth         170 mm           required spacing         with side-by-side mounting           — Forwards         20 mm           — Upwards         10 mm           — Gownwards         10 mm           — It he side         0 mm           — Forwards         20 mm           — Upwards         10 mm           — Upwards         10 mm           — Gownwards         20 mm           — For live parts         10 mm           — Lowards         20 mm           — Upwards         10 mm           — It he side         0 mm           — Upwards         10 mm           — Upwards         10 mm           — It he side         20 mm           — It he side         10 mm           — It he side         1	height	172 mm
Property	width	120 mm
	depth	170 mm
	•	
- forwards		
- upwards - downwards - at the side of grounded parts		20 mm
downwards		
■ at the side	·	
• for grounded parts		
forwards		0 mm
- upwards	<ul> <li>for grounded parts</li> </ul>	
- at the side	— forwards	20 mm
Online   O	— upwards	10 mm
• for live parts  - forwards - upwards - downwards - downwards - downwards - at the side - downwards - at the side - downwards - downwards - downwards - at the side - downwards - downwards - at the side - downwards - downwards - at the side - downwards - downwards - downwards - downwards - downwards - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil - downwards - of magnet coil - downwards - downwa	— at the side	10 mm
forwards upwards upwards downwards at the side	— downwards	10 mm
forwards upwards upwards downwards at the side	• for live parts	
— upwards	·	20 mm
- downwards — at the side 10 mm  Connections/ Terminals  type of electrical connection  • for main current circuit contactor for auxiliary and control circuit score-type terminals  • at contactor for auxiliary contacts screw-type terminals  • of magnet coil screw-type terminals  • scr		
Connections / Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • of auxiliary contacts • of magnet coil  width of connection bar  thickness of connection bar  diameter of holes  • for AWG cables for main contacts • stranded  connectable conductor cross-sections • for AWG cables for main contacts • stranded  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for AWG contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded wi	•	
type of electrical connection  • for main current circuit • at contactor for auxiliary contacts • at contactor for auxiliary contacts • of magnet coil  width of connection bar  thickness of connectable conductor cross-sections • for AWG cables for main contacts • solid or stranded • sinely stranded with core end processing • for auxiliary contacts • solid or stranded • sinely stranded with core end processing • for auxiliary contacts • solid or stranded • solid or stranded • sinely stranded with core end processing • for auxiliary contacts • solid or stranded • solid or stranded • sinely stranded with core end processing • for auxiliary contacts • solid or stranded		
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  width of connection bar  thickness of connection bar  diameter of holes  of connectable conductor cross-sections  • for AWG cables for main contacts  • siranded  connectable conductor cross-section for auxiliary contacts  • siranded  connectable conductor cross-sections  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid — solid or stranded — finely stranded with core end processing  • for AWG cables for nauxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  • for auxiliary co		10 mm
for main current circuit     for auxiliary and control circuit     strew-type terminals     of magnet coil     screw-type terminals     of magnet coil     screw-type terminals     of magnet coil     screw-type terminals     indicates of connection bar     thickness of connection bar     thickness of connection bar     thickness of connection bar     thickness of connectable conductor cross-sections     of raw Gables for main contacts     of raw Gables for main contacts     of raw Gables for main contacts     ostranded     connectable conductor cross-section for auxiliary contacts     oslid or stranded     of connectable conductor cross-sections     of raw will any contacts     oslid or stranded     oslid or stra	Connections/ Terminals	
of or auxiliary and control circuit     ot a contactor for auxiliary contacts     of magnet coil      width of connection bar     thickness of connection bar     thickness of connection bar  diameter of holes     number of holes     type of connectable conductor cross-sections     of a AWG cables for main contacts     stranded     connectable conductor cross-section for main contacts     stranded     connectable conductor cross-section for auxiliary contacts     solid or stranded     inely stranded with core end processing     of or auxiliary contacts	type of electrical connection	
• at contactor for auxiliary contacts • of magnet coil  vidth of connection bar  thickness of connection bar  diameter of holes  diameter of holes  type of connectable conductor cross-sections • of AWG cables for main contacts • stranded  connectable conductor cross-section for auxiliary contacts • stranded  connectable conductor cross-section for auxiliary contacts • sidi or stranded • finely stranded with core end processing • for auxiliary contacts  - solid or stranded  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for fawG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing - for fawG cables for auxiliary contacts  - for fawG cables for auxiliary contacts  - for fawG cables for auxiliary contacts  - for auxiliary contacts  - for fawG cables for auxiliary contacts  - for fawG cables for auxiliary contacts  - for fawG cables for auxiliary contacts  - for auxiliary con	for main current circuit	Connection bar
• 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           type of connectable conductor cross-sections         4 250 kcmil           of a AWG cables for main contacts         4 250 kcmil           connectable conductor cross-section for main contacts         5 stranded         25 120 mm²           connectable conductor cross-section for auxillary contacts         5 solid or stranded         0.5 4 mm²         4 250 kcmil           connectable conductor cross-section for auxillary contacts         5 solid or stranded         0.5 4 mm²         4 250 kcmil           type of connectable conductor cross-sections         6 for auxillary contacts         2 x (0.5 1.5 mm²)         2 x (0.75 2.5 mm²)         4 mm²           - solid or stranded         2 x (0.5 1.5 mm²), 2 x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         2 x (0.5 1.5 mm²), 2 x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         2 x (0.5 1.5 mm²), 2 x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         3 mm²           - for auxiliary contacts         2 x (20 16), 2 x (18 14), 1 x 12         3 x (20 14 mm²)	<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
width of connection bar     17 mm       thickness of connectation bar     3 mm       diameter of holes     9 mm       number of holes     1       type of connectable conductor cross-sections <ul> <li>for AWG cables for main contacts</li> <li>stranded</li> <li>connectable conductor cross-section for main contacts</li> <li>stranded</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> </ul> 0.5 4 mm²           for auxiliary contacts         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)           - 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)           - solid or stranded with core end processing             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), max. 2x (0.75 4 mm²)           - for AWG cables for auxiliary contacts             2x (20 1.5 mm²), 2x (0.75 2.5 mm²)           - for auxiliary contacts             18 14           Sefety related data           product function         Yes               - positively driven operation according to IEC 60947-	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
thickness of connection bar  diameter of holes  number of holes  1  type of connectable conductor cross-sections  • for AWG cables for main contacts  • stranded  connectable conductor cross-section for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  • for auxiliary cont	of magnet coil	Screw-type terminals
diameter of holes  number of holes  1  type of connectable conductor cross-sections  of ra AWG cables for main contacts  of rawliary contacts  of rawliar	width of connection bar	17 mm
diameter of holes  number of holes  1  type of connectable conductor cross-sections  of ra AWG cables for main contacts  of rawliary contacts  of rawliar	thickness of connection bar	3 mm
type of connectable conductor cross-sections		
type of connectable conductor cross-sections		
• for AWG cables for main contacts  connectable conductor cross-section for main contacts • stranded  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts  - solid - solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing  • for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing - for auxiliary contacts  - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - sol		•
connectable conductor cross-section for main contacts		4 250 komil
stranded 25 120 mm²      connectable conductor cross-section for auxiliary contacts         • solid or stranded • finely stranded with core end processing 0.5 4 mm²		4 250 KCMIII
connectable conductor cross-section for auxiliary contacts  • solid or stranded • finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing  - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for auxiliary contacts  18 14  Safety related data  product function • mirror contact according to IEC 60947-5-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function  suitability for use safety-related switching OFF  service life maximum  20 a  Yes		
* solid or stranded     * finely stranded with core end processing  type of connectable conductor cross-sections     * for auxiliary contacts     * — solid     * — solid or stranded     * — solid or stranded     * — finely stranded with core end processing     * — finely stranded with core end processing     * — finely stranded with core end processing     * — for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     * — for auxiliary contacts  AWG number as coded connectable conductor cross section     * — for auxiliary contacts  Product function     * — mirror contact according to IEC 60947-4-1     * — positively driven operation according to IEC 60947-5-1     * — suitable for safety function     * suitable for safety function     * — suitable for safety function     * — service life maximum     * — Service life maximum     * — Solid		25 120 mm²
• finely stranded with core end processing      type of connectable conductor cross-sections         • for auxiliary contacts	connectable conductor cross-section for auxiliary contacts	
type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  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  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  • suitable for safety related switching OFF  yes  service life maximum  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (20 16), 2x (18 14), 1x 12  18 14  Yes  No  Yes  service life maximum  20 a  test wear-related service life necessary  Yes	solid or stranded	0.5 4 mm²
• for auxiliary contacts     — solid     — solid	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
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 suitable for safety function Yes  suitability for use safety-related switching OFF Yes  service life maximum 20 a  test wear-related service life necessary Yes	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing of for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section of rauxiliary contacts  18 14  Safety related data  product function of mirror contact according to IEC 60947-4-1 of positively driven operation according to IEC 60947-5-1 of suitable for safety function suitability for use safety-related switching OFF suitable for safety related service life necessary  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12  4x (20	for auxiliary contacts	
- solid or stranded - finely stranded with core end processing of for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section of rauxiliary contacts  18 14  Safety related data  product function of mirror contact according to IEC 60947-4-1 of positively driven operation according to IEC 60947-5-1 of suitable for safety function suitability for use safety-related switching OFF suitable for safety related service life necessary  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12  4x (20	— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— finely stranded with core end processing  • for AWG cables for auxiliary contacts  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  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  suitablity for use safety-related switching OFF  service life maximum  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14), 1x 12  Yes  18 14  Yes  Yes  20 a  test wear-related service life necessary  Yes	— solid or stranded	
For AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     For auxiliary contacts  Is 14  Safety related data  product function     For auxiliary contact according to IEC 60947-4-1     Fositively driven operation according to IEC 60947-5-1     Suitable for safety function  suitability for use safety-related switching OFF  service life maximum  20 a  test wear-related service life necessary  Yes		
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  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  suitability for use safety-related switching OFF  yes  service life maximum  20 a  test wear-related service life necessary  Yes		
section	·	21 (20 10); 21 (10 17); 11 12
for auxiliary contacts  It is 14  Safety related data  product function     mirror contact according to IEC 60947-4-1     positively driven operation according to IEC 60947-5-1     suitable for safety function     suitability for use safety-related switching OFF     service life maximum     20 a  test wear-related service life necessary  Yes		
product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  suitability for use safety-related switching OFF  service life maximum  20 a  test wear-related service life necessary  Yes		18 14
product function  • mirror contact according to IEC 60947-4-1 Yes  • positively driven operation according to IEC 60947-5-1 No  • suitable for safety function Yes  suitability for use safety-related switching OFF Yes  service life maximum 20 a  test wear-related service life necessary Yes	·	
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>20 a</li> <li>test wear-related service life necessary</li> <li>Yes</li> </ul>		
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>20 a</li> <li>test wear-related service life necessary</li> <li>Yes</li> </ul>	•	V
• suitable for safety function Yes suitability for use safety-related switching OFF Yes service life maximum 20 a test wear-related service life necessary Yes	-	
suitability for use safety-related switching OFF  service life maximum  20 a  test wear-related service life necessary  Yes		
service life maximum 20 a test wear-related service life necessary Yes	suitable for safety function	Yes
test wear-related service life necessary  Yes	suitability for use safety-related switching OFF	Yes
·	service life maximum	20 a
proportion of dangerous failures	test wear-related service life necessary	Yes
	proportion of dangerous failures	

<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	

## General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

**Functional Saftey** 

**Test Certificates** 





Type Examination Certificate Type Test Certificates/Test Report

Special Test Certificate

Miscellaneous

Marine / Shipping







LRS





Miscellaneous

other

other Railway Environment

Confirmation

**Miscellaneous** 

Confirmation

Special Test Certificate







## **Environment**

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1055-6AB36

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1055-6AB36}$ 

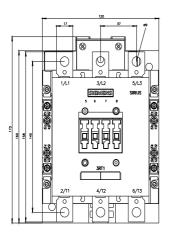
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AB36

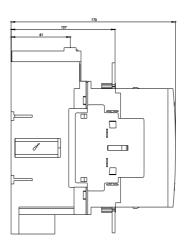
https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AB36

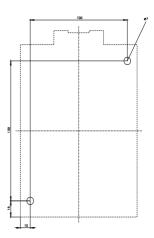
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

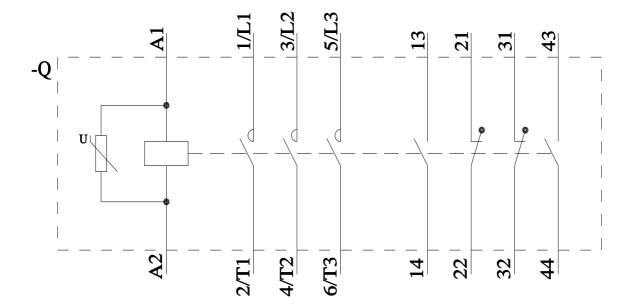
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1055-6AB36&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6AB36&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6AB36&objecttype=14&gridview=view1</a>









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