## SIEMENS

## Data sheet

## 3RT1056-6AB36-3PA0



power contactor, AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V AC/DC auxiliary contacts 2 NO + 2 NC lateral, permanently mounted 3-pole, frame size S6 busbar connections drive: conventional

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	39 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	13 W
<ul> <li>without load current share typical</li> </ul>	5.2 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation 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 (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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-3 rated value maximum     at AC-3e rated value maximum	
operational current	1 000 V
•	04F A
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	215 A
rated value	213 A
— up to 690 V at ambient temperature 60 °C	185 A
rated value	
— up to 1000 V at ambient temperature 40 °C	100 A
rated value	
— up to 1000 V at ambient temperature 60 °C	100 A
rated value	
• at AC-3	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	160 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	189 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	153 A
• at AC-6a	100 /
<ul> <li>up to 230 V for current peak value n=20 rated</li> </ul>	157 A
value	157 A
— up to 400 V for current peak value n=20 rated	157 A
value	
<ul> <li>up to 500 V for current peak value n=20 rated</li> </ul>	157 A
value	
— up to 690 V for current peak value n=20 rated	157 A
value	
— up to 1000 V for current peak value n=20 rated	65 A
value	
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated</li> </ul>	105 A
value	105.4
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	105 A
— up to 500 V for current peak value n=30 rated	105 A
value	
— up to 690 V for current peak value n=30 rated	105 A
value	
— up to 1000 V for current peak value n=30 rated	65 A
value	
minimum cross-section in main circuit at maximum AC-1	95 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	04.4
• at 400 V rated value	81 A
at 690 V rated value	65 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	

— at 24 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	90 kW
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	45 kW
• at 690 V rated value	65 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	60 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	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>	180 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated</li> </ul>	110 000 VA
value	
operating apparent power at AC-6a	

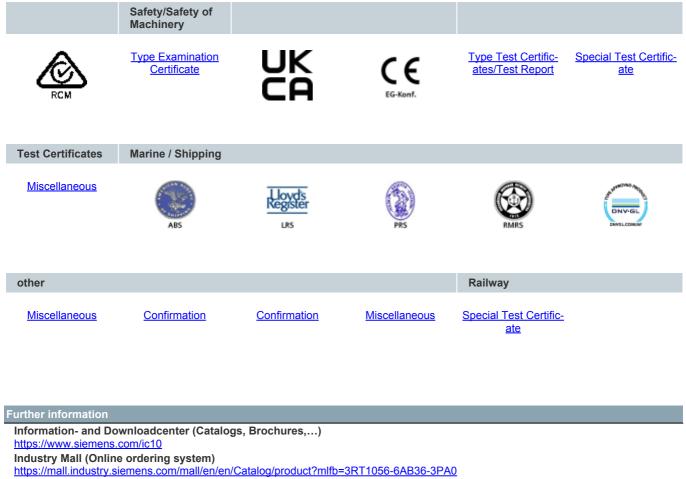
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	40 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	70 000 VA
• up to 500 V for current peak value n=30 rated value	90 000 VA
• up to 690 V for current peak value n=30 rated value	120 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	110 000 VA
value	
short-time withstand current in cold operating state	
up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	2 900 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	2 084 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 480 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	968 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	801 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
at DC	2 000 1/h
operating frequency	
● at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	23 26 V
<ul> <li>at 60 Hz rated value</li> </ul>	23 26 V
control supply voltage at DC	
rated value	23 26 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	300 VA
• at 50 Hz	300 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• 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	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 400 V rated value	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
• at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	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
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	180 A
• at 600 V rated value	192 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 230 V rated value	30 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 355 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415
	V, 50 kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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	screw fixing
side-by-side mounting	Yes
height	172 mm
width	120 mm
depth	170 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm

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- Covards     - Covards     - Covards     - Stands     - Covards		0 mm
		20 mm
- at the side       10 mm         - downwards       10 mm         - for log parts       20 mm         - upwards       10 mm         - downwards       Screw-type terminals         - downwards       9 mm         - downwards       9 mm         - downwards       1 mm         - downowards       1 mm		
	•	
<ul> <li>for live parts         <ul> <li>Orwards</li> <li>Owneards</li> <li>Owneards<!--</td--><td></td><td></td></li></ul></li></ul>		
- forwards       20 mm         - upwards       10 mm         - a the side       10 mm         - a the side       10 mm         - for auxiliary and control dicuti       scree-type ferminals         - of magnet coll       Connection bar         - intra auxiliary and control dicuti       scree-type ferminals         - of magnet coll       3 mm         - diameter of holes       9 mm         - unwards       1         - standed       9 mm         - onnectable conductor cross-section for main       - standed         - onder stranded       - standed         - solid or stranded       0.5 4 mm <sup>2</sup> - solid or stranded       0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> )         - olid       2x (0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> )         - solid or stranded       0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> )         - orid       2x (0.5 15 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> )         - orid       2x (0.5 15 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> )         - orid with core end processing       - the mail automation contexts         - orid with core end processing       - the mail automation contexts         - orid with core sections		TO THIT
- upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - ub e dob       10 mm         Connection I Terninals       Connection bar         - of magnet cell       Screw-type terminals         - of magnet cell       17 mm         witch of connection bar       3 mm         - of connection bar       3 mm         - of connection bar       3 mm         - of connectable conductor cross-sections       4250 kcmil         - connectable conductor cross-section for main      25 mm <sup>2</sup> - solid or stranded       0.5 4 mm <sup>2</sup> - of connectable conductor cross-section for auxiliary contacts       2 25 mm <sup>2</sup> - oradid stranded       0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ), max 2x (0.75 4 mm <sup>2</sup> )         - oradid or stranded       0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ), max 2x (0.75 4 mm <sup>2</sup> )         - oradid or stranded       0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ), max 2x (0.75 4 mm <sup>2</sup> )         - oradid or stranded       0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ), max 2x (0.75 4 mm <sup>2</sup> )         - oradid or stranded       0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ), max 2x (0.75 4 mm <sup>2</sup> )         - oradid or stranded       0.5 15 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> ) <td></td> <td>00</td>		00
- downwards - d the side       10 mm         - downwards - d the side       10 mm         - downwards - d the side       10 mm         Second Connection Evandation connection - drawdiary and control circuit - sid contactor for auxiliary contacts - of magnet coll       Connection bar - screw-type terminals - Screw-type terminals         width of connection bar - and connection bar       3 mm         diameter of holes - stranded       1         connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary connectable conductor cross-sections - standed       0.5 4 mm <sup>2</sup> . solid or stranded - sol		
eith aside       10 mm         Connections // Forminals         Ype of electricial connection       connection bar         of magnet coll       Screw-type terminals         of magnet coll       3 mm         diameter of holes       9 mm         number of holes       9 mm         number of holes       1         standed       4250 kcmill         connectable conductor cross-section for main contacts       4250 kcmill         connectable conductor cross-section for auxiliary contacts       4250 kcmill         connectable conductor cross-section for auxiliary contacts       4	•	
Connections/ Terminals         Screw-Uppe terminals         • for main current circuit       connection bar         • for main current circuit       screw-Uppe terminals         • of magnet coll       3 rmm         width of connection bar       3 rmm         diameter of holes       9 rmm         rumber of holes       9 rmm         type of connectable conductor cross-sections       1         • at AWO cables for main contacts       4 250 kcmil         connectable conductor cross-section for main       0.5 4 rmm <sup>3</sup> • stranded       25 120 rmm <sup>3</sup> • for auxiliary contacts       4 250 kcmil         • for auxiliary contacts       25 120 rmm <sup>3</sup> • for auxiliary contacts       25 120 rmm <sup>3</sup> • for auxiliary contacts       25 120 rmm <sup>3</sup> • for auxiliary contacts       25 15 rmm <sup>3</sup> ) 2x (0.75 25 rmm <sup>3</sup> ), rmm 2x (0.75 4 rmm <sup>3</sup> )         2x (0.5 1.5 rmm <sup>3</sup> ) 2x (0.75 25 rmm <sup>3</sup> )       2x (0.75 25 rmm <sup>3</sup> )         Yop of seconductor cross-sections       18 14         Safety rolated data       18 14         Safety rolated data       1000 000         product function       1000 000         • nimer contact according to IEC 60947-4-1 <t< td=""><td></td><td></td></t<>		
type of electrical connection <ul> <li>for main current dreut!</li> <li>for auxiliary and contol dreut!</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coll</li> <li>width of connection bar</li> <li>final sequence of the sequence of</li></ul>		10 mm
• for main current circuit     • for auxiliary and control circuit     • for auxiliary contacts     • of magnet coil     • of auxiliary contacts	Connections/ Terminals	
• for auxiliary and control circuit         screw-type terminals           • of magnet coll         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           • at AWG cables for main contacts         25 120 mm²           • stranded         25 120 mm²           connectable conductor cross-section for auxiliary contacts         0.5 4 mm²           • solid or stranded         0.5 25 mm²), max. 2x (0.75 4 mm²)           connectable conductor cross-sections         • of auxiliary contacts           • solid or stranded         2x (0.5 15 mm²), 2x (0.75 25 mm²), max. 2x (0.75 4 mm²)           2x (0.5 15 mm²), 2x (0.75 25 mm²), max. 2x (0.75 4 mm²)         2x (0.5 15 mm²), 2x (0.75 25 mm²), max. 2x (0.75 4 mm²)           • adAWG cables for auxiliary contacts         18 14         Safety related dat           product function         18 14         Safety related dat           product function on the front according to IEC 60947-4.1         Yes           • oraticalize scording to IEC 60947-4.1         Yes           • solety-related swithing demand rate according to IEC 60947-5.1	type of electrical connection	
	<ul> <li>for main current circuit</li> </ul>	Connection bar
• of magnet coil       Screw-type terminals         width of connection bar       17 mm         diameter of holes       9 mm         number of holes       9 mm         itlextexs of connectable conductor cross-sections       1         • at AWG cables for main contacts       4 250 kcmil         connectable conductor cross-section for main contacts       25 120 mm <sup>3</sup> connectable conductor cross-section for auxiliary contacts       0.5 4 mm <sup>3</sup> • of auxiliary contacts       0.5 4 mm <sup>3</sup> • of auxiliary contacts       25 (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> )         2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> )       2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )         • of auxiliary contacts       2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> )         • a colid or stranded       5mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> )         • a colid or stranded       1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> )         • a colid or stranded	<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
width of connection bar       17 mm         thickness of connectable conductor cross-sections       9 mm         number of holes       1         type of connectable conductor cross-section for main contacts       4 250 kcmil         connectable conductor cross-section for main contacts       4 250 kcmil         connectable conductor cross-section for auxiliary contacts       9 120 mm²         e standed       0.5 4 mm²         connectable conductor cross-sections       0.5 4 mm²         e load or stranded       0.5 4 mm²         - solid       25 15 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         - solid or stranded       0.5 15 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         - solid or stranded       22 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         - or auxiliary contacts       18 14         Stately related data       18 14         Stately related data       1000 000         protection class IP on the front according to IEC 60529       1000 000         protection class IP on the front according to IEC 60529       1000 000         sately-related switching OFF       Yes         Certificatos/ approvals       Yes         Certificatos/ approvals       Confirmation         General Product Approval	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
thickness of connectable conductor cross-sections       3 mm         ummeter of holes       9 mm         type of connectable conductor cross-section for main contacts       4 250 kcmil         connectable conductor cross-section for auxiliary contacts       4 250 kcmil         e stranded       25 120 mm²         connectable conductor cross-section for auxiliary contacts       0.5 4 mm²         e solid or stranded       0.5 4 mm²         e finely stranded with core end processing       0.5 4 mm²         - solid	<ul> <li>of magnet coil</li> </ul>	Screw-type terminals
diameter of holes       9 mm         number of holes       1         type of connectable conductor cross-sections       4250 kcmil         • at AWG cables for main contacts       4250 kcmil         connectable conductor cross-section for auxiliary contacts       9	width of connection bar	17 mm
number of holes       1         type of connectable conductor cross-sections       4250 kcmil         connectable conductor cross-section for main contacts       25120 mm²         ornectable conductor cross-section for auxiliary contacts       0.54 mm²         o finally stranded with core end processing       0.52.5 mm²         vpo of connectable conductor cross-sections       0.52.5 mm²         o for auxiliary contacts       2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.515 mm²), 2x (0.752.5 mm²), max. 2x (0.754 mm²) 2x (0.516 mm²), 2x (0.752.5 mm²)         e atWG cables for auxiliary contacts       1814         Safety related data       1000 000         product function       10000 000         e both	thickness of connection bar	3 mm
type of connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary connectable conductor cross-sections       4 250 kcmil         • stranded       25 120 mm <sup>3</sup> connectable conductor cross-sections       0.5 4 mm <sup>4</sup> • finely stranded with core end processing       0.5 4 mm <sup>3</sup> - solid       2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (20 16), 2x (18 14), 1x 12         AWG number as coded connectable conductor cross section       • for auxiliary contacts         Bate yrelated data       1000 000         product function       • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947       Yes         B10 value with high demand rate according to IEC 60947       1000 000         protect function       • safety-related switching OFF         • saf	diameter of holes	9 mm
type of connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary connectable conductor cross-sections       4 250 kcmil         • stranded       25 120 mm <sup>3</sup> connectable conductor cross-sections       0.5 4 mm <sup>4</sup> • finely stranded with core end processing       0.5 4 mm <sup>3</sup> - solid       2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), max. 2x (0.75 4 mm <sup>3</sup> ) 2x (20 16), 2x (18 14), 1x 12         AWG number as coded connectable conductor cross section       • for auxiliary contacts         Bate yrelated data       1000 000         product function       • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947       Yes         B10 value with high demand rate according to IEC 60947       1000 000         protect function       • safety-related switching OFF         • saf	number of holes	1
• at AWG cables for main contacts       4 250 kcmil         connectable conductor cross-section for auxiliary contacts       25 120 mm²         • solid or stranded       0.5 4 mm²         • solid or stranded       0.5 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       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       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       8x (2 (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         - otarikiney contacts       18 14         Safety related data       18 14         Safety related data       1900 100         protection class IP on the front according to IEC 60947		
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         - solid or stranded         - solid or stranded         - solid         - solid or stranded         - finely stranded with core end processing         • at AWG cables for auxiliary contacts         AWG number as coded connectable conductor cross section         • for auxiliary contacts         18 14         Safety related data         product function         • mirro contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         E10 value with high demand rate according to IEC 60529         suitability for use         • safety-related switching OFF         Cordificates/ approvals         General Product Approval         Confirmation         Confirmation		4 250 kcmil
e-stranded       25 120 mm²         connectable conductor cross-section for auxiliary contacts       0.5 4 mm²         e-solid or stranded       0.5 4 mm²        solid		
connectable conductor cross-section for auxiliary contacts       0.5 4 mm²         • solid or stranded       0.5 4 mm²         • for auxiliary contacts       0.5 2.5 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       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), max. 2x (0.75 4 mm²)         • at AWG cables for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         • for auxiliary contacts       18 14         Safety related data       18 14         solid or stranded       18 14         • product function       100 value with high demand rate according to IEC 60947-4-1         • positively driven operation according to IEC 60947-4-1       Yes         B10 value with high demand rate according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60529       1000 000         protection class IP on the front according to IEC 60529       1000 000         safety-related switching OFF       Yes         Confirmation       Yes         Confirmation		
contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li></ul>	stranded	25 120 mm²
• finely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       • for auxiliary contacts         - solid       - solid or stranded         - solid or stranded       - finely stranded with core end processing         • at AWG cables for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)         • AWG cables for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • at AWG cables for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • at AWG cables for auxiliary contacts       18 14         Safety related data       78 14         product function       18 14         Safety related data       78 14         protection class IP on the front according to IEC 60947-5-1       Yes         B10 value with high demand rate according to IEC 60947-5-1       1000 000         protection class IP on the front according to IEC 60529       finger-safe, for vertical contact from the front with box terminal/cover         sublability for use       • safety-related switching OFF       Yes         Certificates/ approvals       Confirmation       KC         General Product Approvals       Image: I		
type of connectable conductor cross-sections         • for auxiliary contacts         - solid         - solid         - solid with core end processing         • at 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         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 SN 31920         product function         • protection class IP on the front according to IEC 60947-4-1         • positively driven operation according to IEC 60529         suitability for use         • a safety-related switching OFF         Yes         Confirmation         Confirmation         Confirmation         Confirmation         Confirmation	<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
type of connectable conductor cross-sections         • for auxiliary contacts         - solid         - solid and the product of the processing of the product of the p	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>solid core and processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for auxiliary contacts</li> <li>at at 4</li> </ul> </li> <li>Safety related data         <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li> <li>B10 value with high demand rate according to IEC 60947-5-1</li> <li>B10 value with high demand rate according to IEC 60529</li> <li>suitability for use         <ul> <li>safety-related switching OFF</li> <li>yes</li> <li>cortificates/ approvals</li> </ul> </li> <li>Confirmation         <ul> <li>Confirmation</li> <li>Confirmation</li> <li>ccc</li> <li>with bus terminal/cover</li> <li>safety-related switching OFF</li> <li>Yes</li> </ul> </li> </ul>		
<ul> <li> solid         <ul> <li> solid solid or stranded</li> <li> finely stranded with core end processing</li> <li> at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li> for auxiliary contacts</li> <li> for auxiliary contacts</li></ul></li></ul>		
<ul> <li>- solid or stranded</li> <li>- finely stranded with core end processing</li> <li>• at AVVG cables for auxiliary contacts</li> <li>• AWG number as coded connectable conductor cross section</li> <li>• for auxiliary contacts</li> <li>• for auxiliary contacts</li> <li>• for auxiliary contact</li> <li>• for auxiliary to text and the fort according to IEC 60947-4.1</li> <li>• for auxiliary for use</li> <li>• safety-related switching OFF</li> <li>• for auxiliary for auxiliary for auxiliary for auxiliary for auxilia</li></ul>		$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2) \text{ max} 2x (0.75 \pm 4 \text{ mm}^2)$
<ul> <li>- finely stranded with core end processing         <ul> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section                 <ul></ul></li></ul></li></ul>		
• 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         • 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       1 000 000         B10 value with high demand rate according to IEC 60529       1 000 000         protection class IP on the front according to IEC 60529       IP00; IP20 with box terminal/cover         subtability for use       • safety-related switching OFF       Yes         • safety-related switching OFF       Yes       Yes         Cortificates/ approvals       Confirmation       KC         General Product Approval       Image: Sec Confirmation       Image: Sec Confirmation		
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       Yes       No         B10 value with high demand rate according to SN 31920       1 000 000       IP00; IP20 with box terminal/cover         forgersafe, for vertical contact from the front according to IEC 60529       finger-safe, for vertical contact from the front with box terminal/cover         suitability for use       • safety-related switching OFF       Yes         Certificates/ approvals       Yes         General Product Approval       If confirmation       KC         Effect       Confirmation       KC		
section       • for auxiliary contacts       18 14         Safety related data       product function       Yes         • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947-5-1       No         B10 value with high demand rate according to SN 31920       1 000 000         protection class IP on the front according to IEC 60529       IP00; IP20 with box terminal/cover         suitability for use       • safety-related switching OFF         • safety-related switching OFF       Yes         Certificates/ approvals       General Product Approval         Confirmation		2x (20 10), 2x (10 14), 1x 12
• for auxiliary contacts       18 14         Safety related data <ul> <li>product function</li> <li>• mirror contact according to IEC 60947-4-1</li> <li>• positively driven operation according to IEC 60947- 5-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>protection class IP on the front according to IEC 60529</li> <li>suitability for use</li> <li>• safety-related switching OFF</li> <li>Yes</li> <li>Certificates/ approvals</li> <li>General Product Approval</li> <li>Confirmation</li> <li>Confirmation</li> <li>Certificates/ approvals</li> <li>Confirmation</li> <li>Certificates/ approvals</li> <li>Confirmation</li> <li>Certificates/ approvals</li> <li>Certificates/ approvals</li> <li>Certificates/ approvals</li> <li>Confirmation</li> <li>Certificates/ approvals</li> <li>Cer</li></ul>		
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947- 5-1         B10 value with high demand rate according to SN 31920         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         suitability for use         • safety-related switching OFF         Certificates/ approvals         General Product Approval         Confirmation         Confirmation         Confirmation		18 14
product function       • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947- 5-1       Yes       No         B10 value with high demand rate according to SN 31920       1 000 000       IP00; IP20 with box terminal/cover         g6529       touch protection on the front according to IEC 60529       IP00; IP20 with box terminal/cover         suitability for use       • safety-related switching OFF       Yes         Certificates/ approvals       Yes       Yes         General Product Approval       Confirmation       KC         Confirmation       Confirmation       KC       Confirmation		
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947- 5-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>suitability for use</li> <li>safety-related switching OFF</li> <li>Yes</li> <li>Certificates/ approvals</li> </ul>		
		Vee
5-1       1         B10 value with high demand rate according to SN 31920       1         protection class IP on the front according to IEC       IP00; IP20 with box terminal/cover         60529       finger-safe, for vertical contact from the front with box terminal/cover         suitability for use       • safety-related switching OFF         • safety-related switching OFF       Yes         Certificates/ approvals       General Product Approval         Confirmation	<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	YAC
B10 value with high demand rate according to SN 31920       1 000 000         protection class IP on the front according to IEC       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         suitability for use       • safety-related switching OFF       Yes         Certificates/ approvals       General Product Approval       KC         Confirmation       Confirmation       KC         Certificates/ confirmation       Confirmation       KC	-	
protection class IP on the front according to IEC       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         suitability for use       • safety-related switching OFF       Yes         Certificates/ approvals       General Product Approval       KC         Confirmation       Confirmation       KC	<ul> <li>positively driven operation according to IEC 60947-</li> </ul>	
60529       finger-safe, for vertical contact from the front with box terminal/cover         suitability for use       Yes         • safety-related switching OFF       Yes         Certificates/ approvals         General Product Approval       Image: Confirmation         Confirmation       Image: Confirmation         Cccc       Image: Confirmation	<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>	No
touch protection on the front according to IEC 60529         suitability for use         • safety-related switching OFF         Yes         Certificates/ approvals         Certificates/ approvals         Confirmation         KC         Certificates/ approvals	positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920	No 1 000 000
suitability for use • safety-related switching OFF     Yes       Certificates/ approvals       General Product Approval       Confirmation       Confirmation       Cccc       KC       EFFE	positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC	No 1 000 000
• safety-related switching OFF Yes Certificates/ approvals General Product Approval Confirmation Confirmation Cccc KC KC KC KC	positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529	No 1 000 000 IP00; IP20 with box terminal/cover
Certificates/ approvals General Product Approval Confirmation Confirm	positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	No 1 000 000 IP00; IP20 with box terminal/cover
General Product Approval	positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use	No 1 000 000 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
Confirmation Confi	positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use     safety-related switching OFF	No 1 000 000 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
	positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use     safety-related switching OFF Certificates/ approvals	No 1 000 000 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
EMC         Functional         Declaration of Conformity         Test Certificates	positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use     safety-related switching OFF Certificates/ approvals	No 1 000 000 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
	• positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use     • safety-related switching OFF Certificates/ approvals General Product Approval	No 1 000 000 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover Yes

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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6AB36-3PA0

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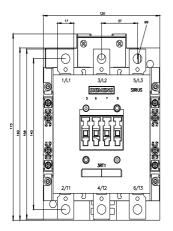
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1056-6AB36-3PA0&lang=en

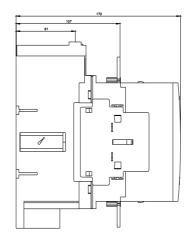
Characteristic: Tripping characteristics, I2t, Let-through current

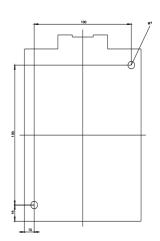
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Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6AB36-3PA0&objecttype=14&gridview=view1







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