## SIEMENS

## Data sheet

## 3RT1056-2AB36



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 3-pole, frame size S6 busbar connections drive: conventional spring-loaded terminal

size of contactor         S6           product extension         No           • function module for communication         No           • auxilary switch         Yes           power loss [W] for rated value of the current         39 W           • at AC in hot operating state per pole         13 W           • without load current share typical         5.2 W           insulation voltage         1 000 V           • of main circuit with degree of pollution 3 rated value         500 V           • of main circuit with degree of pollution 3 rated value         500 V           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         8 kV           • of auxiliary circuit rated value         6 kV           • at AC         8,5g / 5 ms, 4,2g / 10 ms           • at DC         8,5g / 5 ms, 4,2g / 10 ms           • at DC         10,4g / 5 ms, 6,5g / 10 ms           • at DC         10,4g / 5 ms, 6,5g / 10 ms           • at DC         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         0500 / 00 <t< th=""><th>product brand name</th><th>SIRIUS</th></t<>	product brand name	SIRIUS
Second Lechnical data           size of contactor         S6           product extension         •           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         •           • at AC in hot operating state per pole         13 W           • of main circuit with degree of pollution 3 rated value         000 V           • of main circuit with degree of pollution 3 rated value         1000 V           • of main circuit rated value         6 KV           surge voltage resistance         6 KV           • of main circuit rated value         8 kV           • of main circuit rated value         6 KV           maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1         680 V           shock resistance at rectangular impulse         4.5g / 5 ms, 4.2g / 10 ms           • at AC         8.5g / 5 ms, 4.2g / 10 ms           • at AC         13.4g / 5 ms, 6.5g / 10 ms           • at AC         13.4g / 5 ms, 6.5g / 10 ms           • at DC         10.000 000           • at DC         10.000 000           • at DC         10.000 000           • of the contactor with added auxiliary switch block typical         10 000 000	product designation	Power contactor
size of contactor         S6           product extension         No           • function module for communication         No           • auxilary switch         Yes           power loss [W] for rated value of the current         39 W           • at AC in hot operating state per pole         13 W           • without load current share typical         5.2 W           insulation voltage         1 000 V           • of main circuit with degree of pollution 3 rated value         500 V           • of main circuit with degree of pollution 3 rated value         500 V           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         8 kV           • of auxiliary circuit rated value         6 kV           • at AC         8,5g / 5 ms, 4,2g / 10 ms           • at DC         8,5g / 5 ms, 4,2g / 10 ms           • at DC         10,4g / 5 ms, 6,5g / 10 ms           • at DC         10,4g / 5 ms, 6,5g / 10 ms           • at DC         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         0500 / 00 <t< th=""><th>product type designation</th><th>3RT1</th></t<>	product type designation	3RT1
product extension       No         • function module for communication       Yes         • auxiliary switch       Yes         power loss [W] for rated value of the current       39 W         • at AC in hot operating state       39 W         • at AC in hot operating state exploit       13 W         • without load current share typical       5.2 W         insulation voltage       1 000 V         • of main circuit with degree of pollution 3 rated value       1 000 V         • of main circuit rated value       6 kV         • of main circuit rated value       8 kV         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       8.5g / 5 ms, 4.2g / 10 ms         • at AC       8.5g / 5 ms, 4.2g / 10 ms         • at AC       13.4g / 5 ms, 6.5g / 10 ms         • at AC       10 000 000         • of the contactor with a	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current39 W• at AC in hot operating state per pole13 W• at AC in hot operating state per pole13 W• of main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value6 kV• of main circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• at AC10 000 000• at AC10 000 000• at AC10 000 000• at DC10 000 000• of the contactor with added electronically optimized10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block ty	size of contactor	S6
• auxiliary switchYespower loss [W] for rated value of the current9 W• at AC in hot operating state9 W• at AC in hot operating state prope13 W• at AC in hot operating state prope13 W• at AC in hot operating state prope100 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit rated value1000 V• of main circuit rated value8 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8 kg / 5 ms, 4.2g / 10 ms• at AC8,5g / 5 ms, 4.2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• at AC05/01/2012• at AC05/01/2012• at AC05/01/2012• at AC10 000 000• at AC05/01/2012• at AC05/01/2012• at AC05/01/2012 <td>product extension</td> <td></td>	product extension	
power loss [W] for rated value of the current     at AC in hot operating state     39 W       • at AC in hot operating state per pole     13 W       • without load current share typical     5.2 W       insulation voltage     • of main circuit with degree of pollution 3 rated value     1000 V       • of auxiliary circuit with degree of pollution 3 rated value     500 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1     8,5g / 5 ms, 4,2g / 10 ms       shock resistance at rectangular impulse     • at AC       • at AC     8,5g / 5 ms, 4,2g / 10 ms       • at AC     13,4g / 5 ms, 6,5g / 10 ms       • at AC     13,4g / 5 ms, 6,5g / 10 ms       • at AC     1000 000       • at AC     10 000 000       • at AC     10 000 000       • at AC     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     05/01/2012       Ambient conditions     2 000 m	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state per pole       39 W         • at AC in hot operating state per pole       13 W         • without load current share typical       5.2 W         Insulation voltage       5.2 W         • of main circuit with degree of pollution 3 rated value       1000 V         • of auxiliary circuit with degree of pollution 3 rated value       500 V         • of main circuit rated value       8 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       8 kV         • at AC       8.5g / 5 ms, 4.2g / 10 ms         • at AC       13.4g / 5 ms, 6.5g / 10 ms         • at DC       13.4g / 5 ms, 6.5g / 10 ms         • at DC       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block t	auxiliary switch	Yes
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insulation voltage <ul> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated</li> <li>surge voltage resistance</li> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>bkV</li> <li>of auxiliary circuit rated value</li> <li>bkV</li> <li>of auxiliary circuit rated value</li> <li>bkV</li> <li>blow cortage</li> <li>blow cortage</li> <li>blow cortage</li> <li>blow cortage</li> <li>at AC</li> <li>at DC</li> <li>block resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>blow cortage</li> <li>blow cortag</li></ul>	<ul> <li>at AC in hot operating state per pole</li> </ul>	13 W
of main circuit with degree of pollution 3 rated value1 000 Vsurge voltage resistance500 Vof main circuit rated value8 kVof main circuit rated value8 kVof auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• at DC10 000 000• of contactor typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 QSubstance Prohibitance (Date)QAmbient conditions2 000 mambient temperature • during operation2 000 m	<ul> <li>without load current share typical</li> </ul>	5.2 W
• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance6 kV• of main circuit rated value6 kVof auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kg / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0voltage reside (fe (switching cycles)0• of the contactor with added auxiliary switch block typical0• of the contactor with added auxiliary switch block typical0• of the contactor with added auxiliary switch block typical0• of substance Prohibitance (Date)0Installation altitude at height above sea level maximum e ulting operation2 000 mambient temperature e during operation-25 +60 °C	insulation voltage	
value         value           surge voltage resistance         8 kV           • of main circuit rated value         8 kV           • of auxiliary circuit rated value         6 kV           maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1         600 V           shock resistance at rectangular impulse         630 V           • at AC         8.5g / 5 ms, 4.2g / 10 ms           • at AC         8.5g / 5 ms, 6.5g / 10 ms           • at AC         13.4g / 5 ms, 6.5g / 10 ms           • at AC         13.4g / 5 ms, 6.5g / 10 ms           • at AC         10 000 000           • at AC         10 000 000           • of contactor typical         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
of main circuit rated value8 kVof auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse5• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• at DC5000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0• of the contactor with added auxiliary switch block typical2 000 mmeterner code according to IEC 81346-2QSubstance Prohibitance (Date)0501/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	, , , , , , , , , , , , , , , , , , , ,	500 V
• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kV• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC3,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical05/01/2012reference code according to IEC 81346-2QSubstance Prohibitance (Date)2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	surge voltage resistance	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse • at AC • at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse • at AC • at DC13,4g / 5 ms, 6,5g / 10 msshock resistance with sine pulse • at AC • at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles) • of contactor typical10 000 000of the contactor with added electronically optimized auxiliary switch block typical10 000 000of the contactor with added auxiliary switch block typical05/01/2012reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	<ul> <li>of main circuit rated value</li> </ul>	8 kV
coil and main contacts according to EN 60947-1       shock resistance at rectangular impulse         • at AC       8,5g / 5 ms, 4,2g / 10 ms         • at DC       8,5g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       -         • at AC       13,4g / 5 ms, 6,5g / 10 ms         • at DC       13,4g / 5 ms, 6,5g / 10 ms         • at DC       13,4g / 5 ms, 6,5g / 10 ms         • at DC       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block       10 000 000         • of the contactor with added auxiliary switch block       05/01/2012         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C     <	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical2 000 000• of the contactor with added auxiliary switch block typical2 000 m• during operation2 000 m		690 V
• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse-• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)-• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor block typical10 000 000• of the contactor block typical000 000• of the contactor block typical0200 000• of the contactor block typical0200 m• ference code according to IEC 81346-2QQ000 mAmbient conditions2 000 m• fully operation2 000 m	shock resistance at rectangular impulse	
shock resistance with sine pulse       is growthing regretation         • 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)       i         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       000 000         • of the contactor with added auxiliary switch block typical       0000 000         • of the contactor with added auxiliary switch block       0000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/01/2012         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical05/01/2012• of the contactor with added auxiliary switch typical000 m• of the contactor with added auxiliary switch typical	● at DC	8,5g / 5 ms, 4,2g / 10 ms
• at DC       13,4g / 5 ms, 6,5g / 10 ms         mechanical service life (switching cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor typical       05/01/2012         Ambient conditions       2 000 m         ambient temperature       2 000 m         • during operation       -25 +60 °C	shock resistance with sine pulse	
mechanical service life (switching cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • 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         Substance Prohibitance (Date)       05/01/2012         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	• at AC	13,4g / 5 ms, 6,5g / 10 ms
• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	• at DC	13,4g / 5 ms, 6,5g / 10 ms
• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	mechanical service life (switching cycles)	
auxiliary switch block typical       I0 000 000         • of the contactor with added auxiliary switch block typical       I0 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/01/2012         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	<ul> <li>of contactor typical</li> </ul>	10 000 000
typical     Image: constraint of the second se		5 000 000
Substance Prohibitance (Date)       05/01/2012         Ambient conditions       105/01/2012         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C		10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature         • during operation       -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	Substance Prohibitance (Date)	05/01/2012
ambient temperature       • during operation       -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during storage -55 +80 °C	<ul> <li>during operation</li> </ul>	-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 %
maximum Nain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
	5
operating voltage         • at AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum     at AC-3e rated value maximum	1 000 V
	1000 V
operational current	215 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	
— 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 rated value	100 A
at AC-3	
<ul> <li>at AC-3</li> <li>— at 400 V rated value</li> </ul>	185 /
	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	405.4
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-4 at 400 V rated value	160 A
• at AC-5a up to 690 V rated value	189 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	153 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated</li> </ul>	157 A
value	167 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	157 A
— up to 500 V for current peak value n=20 rated	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 value</li> </ul>	105 A
	105 A
<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	
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	65 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating	
cycles at AC-4	
at 400 V rated value	81 A
at 400 V rated value	65 A
operational current	
• · · · · · · · · · · · · · · · · · · ·	

— 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
• with 3 current paths in series at DC-3 at DC-5	
— 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	
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
• at AC-3e	
- at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	45 kW
• at 690 V rated value	65 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	60 000 kVA
• up to 400 V for current peak value n=20 rated value	100 000 VA
• up to 500 V for current peak value n=20 rated value	130 000 VA
• up to 690 V for current peak value n=20 rated value	180 000 VA
• up to 1000 V for current peak value n=20 rated	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

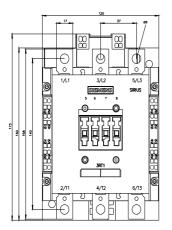
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	70 000 VA			
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	90 000 VA			
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	120 000 VA			
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	110 000 VA			
value				
short-time withstand current in cold operating state up to 40 °C				
•	2,000 At Los minimum grass sostion ago to AC 1 roted value			
Imited to 1 s switching at zero current maximum	2 900 A; Use minimum cross-section acc. to AC-1 rated value 2 084 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>				
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 480 A; Use minimum cross-section acc. to AC-1 rated value			
-	968 A; Use minimum cross-section acc. to AC-1 rated value 801 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 60 s switching at zero current maximum	SOT 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	2 000 1/11			
• at AC-1 maximum	800 1/h			
• at AC-2 maximum	300 1/h			
• at AC-3 maximum	750 1/h			
• at AC-3 maximum	750 1/h			
• at AC-4 maximum	130 1/h			
Control circuit/ Control				
	AC/DC			
type of voltage of the control supply voltage control supply voltage at AC				
• at 50 Hz rated value	23 26 V			
at 60 Hz rated value	23 26 V			
control supply voltage at DC	2520 V			
• rated value	23 26 V			
operating range factor control supply voltage rated	2020 V			
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 60 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	5.0.14			
• 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				

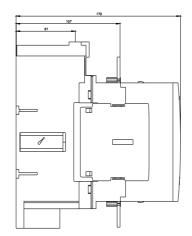
number of NC contacts for auxiliary contacts instantaneous contact	2		
number of NO contacts for auxiliary contacts instantaneous contact	2		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
<ul> <li>at 230 V rated value</li> </ul>	6 A		
• at 400 V rated value	3 A		
• at 500 V rated value	2 A		
• at 690 V rated value	1 A		
operational current at DC-12			
• 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		
• 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		
<ul> <li>at 600 V rated value</li> </ul>	192 A		
yielded mechanical performance [hp]			
<ul> <li>for single-phase AC motor</li> </ul>			
— 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			
<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 355 A (690 V, 100 kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	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		
— downwards	10 mm		

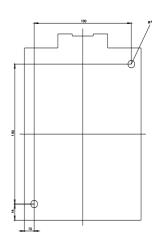
— at the side	0 mm			
<ul> <li>for grounded parts</li> </ul>				
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
<ul> <li>for live parts</li> </ul>				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	Connection bar			
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals			
of magnet coil	Spring-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 • at AWG cables for main contacts	4 250 kcmil			
	4 250 KCITIII			
connectable conductor cross-section for main contacts				
stranded	25 120 mm²			
connectable conductor cross-section for auxiliary contacts				
<ul> <li>solid or stranded</li> </ul>	0.25 2.5 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²			
<ul> <li>finely stranded without core end processing</li> </ul>	0.25 2.5 mm²			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid	2x (0.25 2.5 mm²)			
— solid or stranded	2x (0,25 2,5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 2.5 mm²)			
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (24 14)			
AWG number as coded connectable conductor cross section				
<ul> <li>for auxiliary contacts</li> </ul>	24 14			
Safety related data				
product function				
mirror contact according to IEC 60947-4-1	Yes			
<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>	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			
touch protection on the front according to IEC 60529				
suitability for use				
Suitability for use	Yes			
<ul> <li>safety_related switching OEE</li> </ul>	100			
safety-related switching OFF				
safety-related switching OFF Certificates/ approvals General Product Approval				

EMC	Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping					other	
ABS	Lloyd's Register uis	PRS	RMRS RMRS	DNV-GL DNV-GL	<u>Miscellaneous</u>	
other			Railway			
Confirmation <u>Special Test Certific-</u> <u>ate</u>						
Further information						
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10						
Industry Mall (Onlin	Industry Mall (Online ordering system)					
	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1056-2AB36 Cax online generator					
		CAXorder/default.aspx	?lang=en&mlfb=3RT10	56-2AB36		
https://support.indust	lanuals, Certificates, C ry.siemens.com/cs/ww/	en/ps/3RT1056-2AB36				
Image database (pro	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)					

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1056-2AB36&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-2AB36/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-2AB36&objecttype=14&gridview=view1







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