## SIEMENS

## Data sheet

## 3RT1066-6AB36-0UA0



Power contactor, AC-3 300 A, 160 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V AC/DC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional screw terminal NEMA version

product designation         Power contactor           product type designation         SR11           concrat technical data         SI0           product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         66 W           • at AC in hot operating state per pole         22 W           • without load current share typical         7.4 W           insulation voitage         0 of main circuit with degree of pollution 3 rated value           • of auxiliary circuit with degree of pollution 3 rated value         500 V           • of main circuit rated value         8 kV           • of auxiliary circuit with degree of pollution 3 rated value         6 kV           • of auxiliary circuit with degree of pollution 3 rated value         8 kV           • of auxiliary circuit with degree of pollution 3 rated value         8 kV           • of auxiliary circuit with degree of pollution 3 rated value         8 kV           • of auxiliary circuit with degree of pollution 3 rated value         8 kV           • at AC         8 kV           • at AC         8 kV           • at AC         8 kg / 5 ms, 4.2g / 10 ms           • at AC         13.4g / 5 ms, 6.5g / 10 ms <tr< th=""><th>product brand name</th><th>SIRIUS</th></tr<>	product brand name	SIRIUS
General technical data     S10       size of contactor     S10       product extension     • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     66 W       • at AC in hot operating state     66 W       • of main circuit with degree of pollution 3 rated value     000 V       • of main circuit with degree of pollution 3 rated value     1 000 V       • of main circuit with degree of pollution 3 rated value     1 000 V       • of main circuit rated value     6 kV       surge voltage resistance     6 kV       • of main circuit rated value     6 kV       maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1     6 kV       shock resistance at rectangular impulse     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       • at DC     10,000 000       • at DC     10,000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10000 000       • of the contactor with added auxiliary switch block typical     10000 000       • of the contactor with added auxiliary switch block typical     10000 000       • of the contactor with added auxiliary switch block typical	product designation	Power contactor
size of contactor     S10       product extension     No       • d runction module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     66 W       • at AC in hot operating state per pole     22 W       • without load current share typical     7.4 W       insulation voltage     1 000 V       • of main circuit with degree of pollution 3 rated value     500 V       • surge voltage resistance     8 kV       • of main circuit rated value     6 kV       • of main concut rated value     6 kV       • of auxiliary circuit nated value     6 kV       • of auxiliary circuit rated value     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 the contactor with added electronically optimized auxiliary switch block 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	product type designation	3RT1
product extension     No       • function module for communication     Yes       • auxiliary switch     Yes       • auxiliary switch     Yes       • at AC in hot operating state     66 W       • at AC in hot operating state per pole     22 W       • without load current share typical     7.4 W       insulation voltage     1 000 V       • of main circuit with degree of pollution 3 rated value     1 000 V       • of auxiliary 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     13.4g / 5 ms, 6.5g / 10 ms       • at AC     10 000 000       • at AC     10 000 000       • of the contactor with added lectronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added lectronically optimized auxiliary switch block typical     00 000 000       • of the contactor with	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current66 W• at AC in hot operating state per pole22 W• without load current share typical7.4 Winsulation voltage1000 V• of main circuit with degree of pollution 3 rated value500 V• of main circuit with degree of pollution 3 rated value6 kV• 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 value8,5g / 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 DC13,4g / 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• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block10 000	size of contactor	S10
• auxiliary switchYespower loss [VI] for rated value of the current-• at AC in hot operating state66 W• at AC in hot operating state prole22 W• without load current share typical7.4 Winsuliation voltage1000 V• 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 rated value8 kV• of main circuit rated value6 kV• of main circuit rated value8 kV• of auxiliary circuit impulse690 V• 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 AC10000 000• of the contactor with added electronically optimized• of the contactor with added electronically optimized• of the contactor with added electronically optimized• of the contactor with added auxiliary switch block• of the contactor with added auxiliary switch block<	product extension	
power loss [W] for rated value of the current <ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>22 W</li> <li>without load current share typical</li> <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 value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>at AC</li> <li>of auxiliary circuit rated value</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>at AC</li> <li>brock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at AC</li> <li>brock resistance with sine pulse</li> <li>at AC</li> <li>bit DC</li> <li>bit DC</li></ul>	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state66 W• at AC in hot operating state per pole22 W• without load current share typical7.4 WInsulation voltage1000 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value500 V• of main circuit rated value8 kV• of main circuit rated value6 kV• of main circuit rated value6 kV• of main contacts according to BK 0947-1690 Vshock resistance at rectangular impulse8.5g / 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 AC10.00 000• at AC10.00 000• at AC10.00 000• at DC10.000 000• at DC5.000 100• at DC10.000 000• at DC	auxiliary switch	Yes
• at AC in hot operating state per pole22 W• without load current share typical7.4 Winsulation voltage1000 V• of main circuit with degree of pollution 3 rated value1000 V• of auxiliary circuit with degree of pollution 3 rated value1000 Vsurge voltage resistance6• 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 DC10 000 000• at DC5000 000• at DC10 000 000• at DC10 000 000• at DC5000 000• at DC05/01/2012Ambient conductor with added electronically optimized auxiliary switch block typical0• of the contactor with added electronically optimized auxiliary switch block typical0• of the contactor with added electronically optimized auxiliary switch block typical0• of the contactor with added electronically optimized	power loss [W] for rated value of the current	
• without load current share typical       7.4 W         insulation voltage       • of main circuit with degree of pollution 3 rated value         • of axilliary circuit with degree of pollution 3 rated value       1 000 V         • of axilliary circuit with degree of pollution 3 rated value       500 V         • of axilliary circuit rated value       8 kV         • of axilliary circuit rated value       6 kV         • of axilliary circuit rated value       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       • 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 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       2000 m         installat	<ul> <li>at AC in hot operating state</li> </ul>	66 W
insulation voltage       • of main circuit with degree of pollution 3 rated value       1 000 V         • of auxiliary circuit with degree of pollution 3 rated value       500 V         surge voltage resistance       6 kV         • of main circuit rated value       8 kV         • of auxiliary circuit value value       8 kV         • of auxiliary 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       690 V         shock resistance at rectangular impulse       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 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/01/2012         Ambient conditions       2 000 m         installation atitude at height above sea level maximum       2 000 m         ambient te	<ul> <li>at AC in hot operating state per pole</li> </ul>	22 W
• of main circuit with degree of pollution 3 rated value1 000 V• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance500 V• of main circuit rated value8 kV• 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 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• 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 typical10 000 000• freference code according to EE 81346-2QSubstance Prohibitance (Date)2 000 mambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	<ul> <li>without load current share typical</li> </ul>	7.4 W
• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance500 V• of main circuit rated value8 kV• 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 kJ• 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 DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5000 000• of the contactor with added auxiliary switch block typical10 000 000• 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 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 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 the contactor with addee auxiliary switch block typical0• of the contactor with addee auxiliary switch block ty	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       690 V         coil and main contacts according to EN 60947-1       690 V         shock resistance at rectangular impulse       65g / 5 ms, 4,2g / 10 ms         • 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         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5000 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       10 000 000         • of the contactor with added auxiliary switch block       10 000 000         subiation altitude at height above sea level	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
• of main circuit rated value8 kV• 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 impulse690 V• 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 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 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 addee auxiliary switch block typical0 000 000• of the contactor with addee auxiliary switch block typical0 000 000• of the contactor with addee auxiliary switch block typical<	, , , , , , , , , , , , , , , , , , , ,	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 kJ / 0 ms• at AC8,5g / 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 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 typical05/01/2012reference code according to IEC 81346-2 Substance Prohibitance (Date)Qfullation altitude at height above sea level maximum ambient temperature • during operation2 000 m	surge voltage resistance	
maximum pernissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse690 V• 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 DC13,4g / 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 typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical05/01/2012Ambient 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 60947-1shock resistance at rectangular impulse• 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 typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient 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 typical000 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 block10 000 000• of the contactor with added auxiliary switch block2 000 mmistallation altitude at height above sea level maximum2 000 mambient temperature • during operation-25 +60 °C		690 V
• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse8,5g / 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 typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical0000000• of the contactor with added auxiliary switch block typical0000000• of the contactor with added auxiliary switch block typical00000000• of the contactor with added auxiliary switch block typical000000000000000000000000000000000	shock resistance at rectangular impulse	
shock resistance with sine pulse       istight of my fught of	• 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)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 000 000• 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 block typical0000 000• of the contactor block typical0000 000• of the contactor block typical05/01/2012• dubit conditions2 000 m• during operation-25 +60 °C	• at DC	8,5g / 5 ms, 4,2g / 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 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 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 wit	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         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
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> <li>10 000 000</li> <li>Installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>of uring operation</li> <li>-25 +60 °C</li> </ul>	mechanical service life (switching cycles)	
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 • during operation2 000 m	<ul> <li>of contactor typical</li> </ul>	10 000 000
typical     Image: constraint of 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		5 000 000
Substance Prohibitance (Date)       05/01/2012         Ambient conditions       installation altitude at height above sea level maximum         ambient temperature       2 000 m         • during operation       -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	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	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	4 000 \/
at AC-3 rated value maximum	1 000 V
operational current	1 000 V
• at AC-1 at 400 V at ambient temperature 40 °C	330 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 $^\circ C$ rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 °C rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	
— at 400 V rated value	270 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 1000 V rated value	95 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	280 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	290 A
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	249 A
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	292 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	292 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	292 A
— up to 690 V for current peak value n=20 rated value	280 A
— up to 1000 V for current peak value n=20 rated value	95 A
• at AC-6a	105 A
— up to 230 V for current peak value n=30 rated value	195 A
— up to 400 V for current peak value n=30 rated value	195 A
— up to 500 V for current peak value n=30 rated value	195 A
— up to 690 V for current peak value n=30 rated value	195 A
— up to 1000 V for current peak value n=30 rated value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	125 A
at 690 V rated value	115 A
operational current	
<ul> <li>at 1 current path at DC-1</li> <li>— at 24 V rated value</li> </ul>	300 A

— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 A
— at 110 V rated value	300 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	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 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>	160 kW
• at AC-3	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	001111
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	71 kW
• at 690 V rated value	112 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	110 000 kVA
• up to 400 V for current peak value n=20 rated value	200 000 VA
• up to 500 V for current peak value n=20 rated value	250 000 VA
• up to 690 V for current peak value n=20 rated value	330 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	160 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
up to 400 V for current peak value n=30 rated value	130 000 VA

<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	160 000 VA		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	230 000 VA		
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	160 000 VA		
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>	5 524 A; Use minimum cross-section acc. to AC-1 rated value		
-	4 579 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> </ul>	3 153 A; Use minimum cross-section acc. to AC-1 rated value 1 883 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>			
Imited to 60 s switching at zero current maximum	1 445 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency	0.000.4//-		
• at AC	2 000 1/h		
• at DC	2 000 1/h		
operating frequency	750.44		
• at AC-1 maximum	750 1/h		
• at AC-2 maximum	250 1/h		
• at AC-3 maximum	500 1/h		
• at AC-3e maximum	500 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			
• 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 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	590 VA		
• at 60 Hz	590 VA		
inductive power factor with closing power of the coil	390 VA		
at 50 Hz	0.9		
• at 50 Hz	0.9		
	0.0		
apparent holding power of magnet coil at AC • at 50 Hz	6.7 VA		
• at 50 Hz	6.7 VA 6.7 VA		
• at 60 HZ inductive power factor with the holding power of the			
coil			
• at 50 Hz	0.9		
• at 60 Hz	0.9		
closing power of magnet coil at DC	650 W		
holding power of magnet coil at DC	7.4 W		
closing delay			
• at AC	30 95 ms		
• at DC	30 95 ms		
opening delay			
• at AC	40 80 ms		
• at DC	40 80 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			
at 500 V rated value	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			
<ul> <li>at 48 V rated value</li> </ul>	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				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
• at 48 V rated value	2 A			
• at 60 V rated value	2 A			
• at 110 V rated value	1 A			
<ul> <li>at 125 V rated value</li> </ul>	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	302 A			
• at 600 V rated value	289 A			
yielded mechanical performance [hp]				
<ul> <li>for 3-phase AC motor</li> </ul>				
— at 200/208 V rated value	75 hp			
— at 220/230 V rated value	100 hp			
— at 460/480 V rated value	200 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: 500 A (690 V, 100 kA)			
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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	210 mm			
width	145 mm			
depth	202 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			

upworde	10 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
• for live parts			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	Connection bar		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals		
of magnet coil	Screw-type terminals		
width of connection bar	25 mm		
thickness of connection bar	6 mm		
diameter of holes	11 mm		
number of holes	1		
type of connectable conductor cross-sections			
<ul> <li>at AWG cables for main contacts</li> </ul>	2/0 500 kcmil		
connectable conductor cross-section for main			
contacts	70 - 240 mm²		
stranded	70 240 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
— solid or stranded	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), max. 2x (0,75 4 mm <sup>2</sup> )		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12		
AWG number as coded connectable conductor cross			
section			
<ul> <li>for auxiliary contacts</li> </ul>	18 14		
Safety related data			
product function			
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes		
<ul> <li>positively driven operation according to IEC 60947-</li> </ul>	No		
5-1 P10 volve with high demand rate according to CN 21020	1 000 000		
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	finger-safe, for vertical contact from the front with box terminal/cover		
suitability for use			
<ul> <li>safety-related switching on</li> </ul>	Yes		
<ul> <li>safety-related switching OFF</li> </ul>	Yes		
Certificates/ approvals			
General Product Approval			
Central in the water light of the			
Confirmation			
C2M CCC	UL		
Functional			
EMC Safety/Safety of Declaration of Machinery	of Conformity Test Certificates		
Wathinty			

RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report
Test Certificates	Marine / Shipping				
<u>Miscellaneous</u>	ABS	Llovdis Register uts	PRS	RMRS	DNV-GL
other			Railway		
<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	Special Test Certific- ate		

## Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1066-6AB36-0UA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AB36-0UA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AB36-0UA0

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

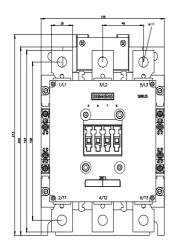
 $\underline{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1066-6AB36-0UA0\&lang=enderseteenderse$ 

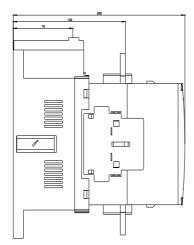
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

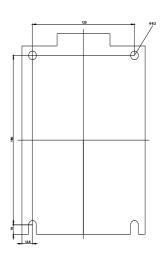
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AB36-0UA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AB36-0UA0&objecttype=14&gridview=view1







last modified:

3/24/2022 🖸