## SIEMENS

## Data sheet

## 3RT1075-6AM36



power contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 200-220 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional screw terminal

product designation         Power contactor           product type designation         3R11           General technical data         S12           size of contactor         S12           product extension         Ves           • function module for communication         No           • auxiliary switch         Yes           out AC in hot operating state per pole         35 W           • at AC in hot operating state per pole         35 W           • of main circuit with degree of pollution 3 rated value         100 V           • of auxiliary circuit rated value         8 KV           • of main circuit rated value         8 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 AC         13.4g / 5 ms, 6.5g / 10 ms           • at AC         10 0000 000     <	product brand name	SIRIUS
General technical data     size of contactor     S12       product extension     • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     • at AC in hot operating state per pole     35 W       • of main circuit with degree of pollution 3 rated value     100 W       • 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 maxinup cortul rated value     6 kV       maximum permissible voltage for safe isolation between coil 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 AC     10,000 000       • at DC     10,000 000       • at DC     10,000 000       • 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     10000 000       • of the contactor with added auxiliary switch block typical     10000 000 <td>product designation</td> <td>Power contactor</td>	product designation	Power contactor
size of contactor     S12       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     105 W       • at AC in hot operating state prole     35 W       • without load current share typical     10 W       insulation voltage     1 00 V       • of main circuit with degree of pollution 3 rated value     1 000 V       surge voltage resistance     8 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 kV       shock resistance at rectangular impulse     4 AC       • at AC     8,5g / 5 ms, 4,2g / 10 ms       • at DC     13,4g / 5 ms, 6,5g / 10 ms       • at DC     13,4g / 5 ms, 6,5g / 10 ms       • at DC     10,00000       • 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	product type designation	3RT1
product extension     No       • function module for communication     Yes       • auxiliary switch     Yes       • at AC in hot operating state     105 W       • at AC in hot operating state per pole     35 W       • without load current share typical     10 W       insulation voltage     100 V       • of main circuit with degree of pollution 3 rated value     1000 V       • of auxiliary circuit rated value     1000 V       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of main circuit gate value     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary 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     000 000	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current105 W• at AC in hot operating state105 W• at AC in hot operating state per pole35 W• without load current share typical100 Vinsulation voltage100 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 rated value6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8 style• of auxiliary circuit rated value8 style• 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 DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of the contactor with added electronically optimized• 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 typical10 000 000• of the contactor with added auxiliary switch block typical<	size of contactor	S12
• auxiliary switchYespower loss [W] for rated value of the current105 W• at AC in hot operating state105 W• at AC in hot operating state prople35 W• at AC in hot operating state prople35 W• without load current share typical10 Winsultation voltage1000 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit rated value6 kV• of main circuit rated value6 kV• of main 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• of contactor typical10 000 000• of the contactor with added electronically optimized10 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 000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block10 000 000	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>at AC in hot operating state datue</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>brock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>bolow (by circuit)</li> <li>bit bit added electronically optimized</li> <li>auxiliary switch block typical</li> <li>bit bit contactor typical</li> <li>bit bit contactor with added auxiliary switch block typical</li> <li>bit bit bit bit bit bit bit bit bit bit</li></ul>	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state105 W• at AC in hot operating state per pole35 W• of main circuit with degree of pollution 3 rated value100 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 value8 kV• of main circuit rated value6 kV• of main circuit rated value6 kV• of main contacts according to EN 60947-1680 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 000 000• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• at DC10 000 000• at DC500 000• at DC10 000 000• at DC10 000 000• at DC10 000 000• at DC10 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• of the contactor with added auxiliary switch block typical05/01/2012Ambient conditions2000 minstallation altitude at height above sea level maximum2000 mambient temperature-25 +60 °C <td>auxiliary switch</td> <td>Yes</td>	auxiliary switch	Yes
• at AC in hot operating state per pole35 W• without load current share typical10 Winsulation voltage1 000 V• of main circuit with degree of pollution 3 rated value1 000 V• of auxiliary circuit with degree of pollution 3 rated value500 V• 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 DC13.4g / 5 ms, 6.5g / 10 ms• at DC10 000 000• at DC10 000 000• at DC5 000 000• at DC10 000 000• at DC10 000 000• at DC5 000 000• at DC10 000 000• at DC10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 solor 000• of the contactor with added auxiliary switch block typical0 solor 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 solor 000• of the contactor with added auxiliary switch block typical	power loss [W] for rated value of the current	
• without load current share typical10 Winsulation voltage1000 V• of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value1000 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 60947-1600 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, 4,2g / 10 ms• at AC10,000 000• at AC5000 000• at AC10,000 000• at BC5000 000• at AC6,5g / 10 ms• at C6,5g / 10 ms• at C6,5g / 10 ms• at C7,5g / 10 ms• at C7,5g / 10 ms• at C6,5g / 10 ms• at BC7,5g / 10 ms• at BC6,5g / 10 ms• at BC6,7g / 10 0	<ul> <li>at AC in hot operating state</li> </ul>	105 W
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>500 V</li> </ul> surge voltage resistance              500 V           • of main circuit rated value              8 kV             • of auxiliary circuit rated value              8 kV <ul> <li>of auxiliary circuit rated value</li> <li>6 kV</li> </ul> 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              13,4g / 5 ms, 6,5g / 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 typica	<ul> <li>at AC in hot operating state per pole</li> </ul>	35 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 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 AC8.5g / 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 AC10 000 000• at AC10 000 000• at AC10 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 typical2 000 mmerference code according to EC 81346-2QMobient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C	<ul> <li>without load current share typical</li> </ul>	10 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 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 typical0• of the contactor block typical0• of the contactor block typical0• of the contactor with added auxiliary switch block typical0• of the contactor with added auxiliary switch block typical0• of the contactor block typical0• of the contactor 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 typical0• of the contactor with	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 coil and main contacts according to EN 60947-1         600 V           shock resistance at rectangular impulse         650 V           • at AC         8.5g / 5 ms, 4.2g / 10 ms           • at DC         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 DC         10 000 000           • at DC         5000 000           • 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         Q           substance Prohibitance (Date)         Q           Substance Prohibitance (Date)         2000 m           ambient temperature • during operation         2000 m	<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 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 the contactor with added electronically optimized 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 typicalQSubstance Prohibitance (Date)05/01/2012Ambient 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 kJ / 0 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 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 typicalQreference 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 auxilary switch block typical10 000 000of the contactor with added auxiliary switch block typical05/01/2012meterene code according to IEC 81346-2 Substance Prohibitance (Date)QMethem temperature • 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 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 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 mambient temperature • during operation2 000 m	<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 addee auxiliary switch block typical2 000 m• auxiliary suitch block sea level maximum • during operation2 000 m		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 ms• mechanical service life (switching cycles)0000000• 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 typical000000000000000000000000000000000	shock resistance at rectangular impulse	
shock resistance with sine pulse       istore 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)       in 000000         • 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 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 typical2 000 m• of the contactor with added auxiliary switch typical <t< td=""><td>● at DC</td><td>8,5g / 5 ms, 4,2g / 10 ms</td></t<>	● 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         • of the contactor with added auxiliary switch block typical       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 • 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         <ul> <li>during operation</li> <li>-25 +60 °C</li> </ul> </li> </ul>	mechanical service life (switching cycles)	
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		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       -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 %
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	430 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	430 A
— up to 690 V at ambient temperature 60 °C rated value	400 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
at AC-4 at 400 V rated value	350 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	378 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	332 A
• at AC-6a	552 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	395 A
— up to 400 V for current peak value n=20 rated value	395 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	395 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	395 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	180 A
<ul> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated</li> </ul>	264 A
value — up to 400 V for current peak value n=30 rated value	264 A
— up to 500 V for current peak value n=30 rated value	264 A
— up to 690 V for current peak value n=30 rated value	264 A
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	150 A
at 690 V rated value	135 A
operational current	

— at 24 V rated value	400 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	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 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
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	85 kW
• at 690 V rated value	133 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	150 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	270 000 VA
• up to 500 V for current peak value n=20 rated value	340 000 VA
• up to 690 V for current peak value n=20 rated value	470 000 VA
• up to 1000 V for current peak value n=20 rated	310 000 VA
value	
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	100 000 VA

<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	180 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	220 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	310 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	310 000 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>	6 600 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	5 761 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	4 143 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	2 635 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	2 088 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	
<ul> <li>at AC-1 maximum</li> </ul>	700 1/h
<ul> <li>at AC-2 maximum</li> </ul>	200 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	
<ul> <li>at 50 Hz rated value</li> </ul>	200 220 V
at 60 Hz rated value	200 220 V
control supply voltage at DC	
rated value	200 220 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	830 VA
• at 60 Hz	830 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	9.2 VA
• at 60 Hz	9.2 VA
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	920 W
holding power of magnet coil at DC	10 W
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 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	
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	
• at 24 V rated value	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
<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	361 A
• at 600 V rated value	382 A
yielded mechanical performance [hp]	
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 630 A (690 V, 100 kA)
- with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	V, 50 kA) 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	214 mm
width	160 mm
depth	225 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	

— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
<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				
<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				
• stranded	70 240 mm²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 4 mm²			
	0.5 2.5 mm <sup>2</sup>			
finely stranded with core end processing	0.5 2.5 mm			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>	$2x (0.5 + 1.5 mm^2) 2x (0.7)$	$= 2 E mm^2 may 2y$	$(0.75 (1.20)^2)$	
— solid	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75			
— 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> )			
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross	2x (20 16), 2x (18 14),	IX IZ		
section				
for auxiliary contacts	18 14			
Safety related data				
product function				
mirror contact according to IEC 60947-4-1	Yes			
<ul> <li>positively driven operation according to IEC 60947-</li> </ul>	No			
5-1				
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	l/cover		
60529				
touch protection on the front according to IEC 60529	finger-safe, for vertical conta	act from the front with b	ox terminal/cover	
suitability for use				
<ul> <li>safety-related switching OFF</li> </ul>	Yes			
Certificates/ approvals				
			Functional	
General Product Approval		EMC	Safety/Safety of	
			Machinery	
Confirmation		~	Tuno Examination	
	יחר	kλ	<u>Type Examination</u> <u>Certificate</u>	
	101	<u></u>		
CSA UL	<b>B11B</b>	RCM		
Declaration of Conformity Test Certifica				
	ates	Marine / Shipping		
	ates	Marine / Shipping		

UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	Llovd's Register uis
Marine / Shipping			other		
PRS	RMRS	DNV-GL	<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Miscellaneous</u>
other	Railway				
<u>Confirmation</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=3RT1075-6AM36 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AM36 Campart (Menuels, Cartificates, Characteristics, FAOs, D)					

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AM36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1075-6AM36&lang=en

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AM36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AM36&objecttype=14&gridview=view1

last modified:

3/24/2022 🖸