## SIEMENS

## Data sheet

## 3RT2035-1NB34



power contactor, AC-3 40 A, 18.5 kW / 400 V 2 NO + 2 NC, AC / DC 20-33 V, with varistor, 3-pole, Size S2, screw terminal

product brand name         SIRUS           product designation         Power contactor           product type designation         3RT2           General technical data         -           size of contactor         S2           product extension         No           • function module for communication         No           • auxiliary switch         No           • at AC in hot operating state prote         2.2 W           • without load current share typical         2W           insultation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit rated value         6 kV           • of auxiliary circuit with degree of pollution 3 rated value         6 kV           • of main circuit rated value         6 kV           • of auxiliary circuit with degree of pollution 3 rated value         6 kV           • of main circuit rated value         6 kV           • of auxiliary circuit with degree of pollution 3 rated value         6 kV           • of auxiliary circuit with degree of pollution 3 rated value         6 kV           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • at AC         9.6g / 5 ms, 3.7g / 10 ms		
product type designation         3RT2           General technical data         size of contactor           size of contactor         S2           product extension         No           • function module for communication         No           • auxiliary switch         No           power loss (W) for rated value of the current         6.6 W           • at AC in hot operating state         6.6 W           • without load current share typical         2 W           insulation voltage         6 of main circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         690 V         690 V           • of main circuit rated value         6 kV         690 V           • of auxiliary circuit rated value         6 kV         600 V           • of auxiliary circuit rated value         6 kV         600 V           • of auxiliary circuit rated value         6 kV         600 V           • of auxiliary circuit rated value         6 kV         600 V           • of auxiliary circuit rated value         6 kV         600 V           • of auxiliary circuit rated value         6 kV         6 kV           • of auxiliary circuit rated value         6 kV         000 V           • at AC         6.1g		
General technical data         size of contactor       S2         product extension       • function module for communication         • function module for communication       No         • auxiliary switch       No         power loss [W] for rated value of the current       6.6 W         • at AC in hot operating state per pole       2.2 W         • without load current share typical       2W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       64V         • of main circuit rated value       6 kV         • of auxiliary circuit with degree of pollution between coll and main contracts according to EN 60947-1       600 V         shock resistance at rectangular impulse       6.1g / 5 ms, 3.7g / 10 ms         • at AC       6.1g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC		
size of contactor     S2       product extension     No       • dunction module for communication     No       • auxiliary switch     No       power loss [W] for rated value of the current     6.6 W       • at AC in hot operating state per pole     2.2 W       • without load current share typical     2.2 W       • of main circuit with degree of pollution 3 rated value     680 V       • of main circuit with degree of pollution 3 rated value     680 V       • of main circuit vith degree of pollution 3 rated value     64V       • of main circuit vith degree of pollution 3 rated value     64V       • of main circuit vith degree of pollution 3 rated value     64V       • of main circuit vith degree of pollution 3 rated value     64V       • of auxiliary circuit rated value     64V       • at AC     6.1g / 5 ms, 3.7g / 10 ms       • at AC     9.6g / 5 ms, 5.8g / 10 ms       • at DC     9.6g / 5 ms, 5.8g / 10 ms       • at DC     9.6g / 5 ms, 5.8g / 10 ms       • at DC     9.6g / 5 ms, 5.8g / 10 ms       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch bl		3RT2
product extension     Product extension       • function module for communication     No       • auxiliary switch     No       power loss [W] for rated value of the current     6.6 W       • at AC in hot operating state per pole     2.2 W       • without load current share typical     2 W       insulation voltage     680 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     64 V       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated 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     6.1g / 5 ms, 3.7g / 10 ms       • at AC     9.6g / 5 ms, 5.8g / 10 ms       • at AC     9.6g / 5 ms, 5.8g / 10 ms       • at AC     9.6g / 5 ms, 5.8g / 10 ms       • at AC     9.6g / 5 ms, 5.8g / 10 ms       • at AC     9.6g / 5 ms, 5.8g / 10 ms       • at DC     5.000 000       • of the contactor with added lectronically optimiz	General technical data	
• function module for communication       No         • auxiliary switch       No         power loss [W] for rated value of the current       -         • at AC in hot operating state       6.6 W         • at AC in hot operating state per pole       2.2 W         • without load current share typical       2 W         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       64 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • of ontactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block       10 000 000 </td <td>size of contactor</td> <td>S2</td>	size of contactor	S2
• auxiliary switch       No         power loss [W] for rated value of the current       6.6 W         • at AC in hot operating state per pole       2.2 W         • without load current share typical       2 W         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6.1g / 5 ms, 3.7g / 10 ms         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 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 electronically optimized profile       10 000 000         • of the contacto	product extension	
power loss [W] for rated value of the current       6.6 W         • at AC in hot operating state per pole       2.2 W         • without load current share typical       2 W         insulation voltage       0 finain circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       6 kV         • auxiliary circuit rated value       6 kV         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 0	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state per pole       2.2 W         • without load current share typical       2 W         insulation voltage       6 main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.00 000         • 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 <td><ul> <li>auxiliary switch</li> </ul></td> <td>No</td>	<ul> <li>auxiliary switch</li> </ul>	No
• at AC in hot operating state per pole       2.2 W         • without load current share typical       2 W         insulation voltage       600 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       690 V         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • of 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 electronically optimized auxiliary switch block typical       10 000 000	power loss [W] for rated value of the current	
• without load current share typical       2 W         insulation voltage       • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 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       400 V         shock resistance at rectangular impulse       6.1g / 5 ms, 3.7g / 10 ms         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 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       10 000 000 <td><ul> <li>at AC in hot operating state</li> </ul></td> <td>6.6 W</td>	<ul> <li>at AC in hot operating state</li> </ul>	6.6 W
insulation voltage       6         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with	<ul> <li>at AC in hot operating state per pole</li> </ul>	2.2 W
• of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6         • 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         maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6.1g / 5 ms, 3.7g / 10 ms         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.0g / 5 ms, 5.8g / 10 ms         • 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       2000	<ul> <li>without load current share typical</li> </ul>	2 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • 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       400 V         shock resistance at rectangular impulse       6.1g / 5 ms, 3.7g / 10 ms         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • 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       00/10/1/2014         Ambient conditions       2000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C </td <td>insulation voltage</td> <td></td>	insulation voltage	
value       value         surge voltage resistance       6 kV         • 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       400 V         shock resistance at rectangular impulse       6.1g / 5 ms, 3.7g / 10 ms         • at AC       6.1g / 5 ms, 3.7g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • 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         • of the	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of main circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse6.1g / 5 ms, 3.7g / 10 ms• at AC6.1g / 5 ms, 3.7g / 10 ms• at DC6.1g / 5 ms, 3.7g / 10 ms• at AC9.6g / 5 ms, 5.8g / 10 ms• at AC9.6g / 5 ms, 5.8g / 10 ms• at AC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.00 000• at DC9.6g / 5 ms, 5.00 000• at DC10 000 000• of the contactor with added electronically optimized auxiliary switch block typical• 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 block typical10/01/2014Ambient conditions2000 minstallation altitude at height above sea level maximum e during operation2 000 m	, , , , , , , , , , , , , , , , , , , ,	690 V
• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse6.1g / 5 ms, 3.7g / 10 ms• at AC6.1g / 5 ms, 3.7g / 10 ms• at DC6.1g / 5 ms, 3.7g / 10 msshock resistance with sine pulse9.6g / 5 ms, 5.8g / 10 ms• at AC9.6g / 5 ms, 5.8g / 10 ms• at AC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• 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 81346-2 Substance Prohibitance (Date)QAmbient conditions installation 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 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at AC</li> <li>b. (1g / 5 ms, 3.7g / 10 ms)</li> <li>b. (1g / 5 ms, 3.7g / 10 ms)</li> <li>b. (1g / 5 ms, 3.7g / 10 ms)</li> </ul> shock resistance with sine pulse <ul> <li>at AC</li> <li>b. (1g / 5 ms, 3.7g / 10 ms)</li> <li>b. (1g / 5 ms, 3.7g / 10 ms)</li> </ul> shock resistance with sine pulse <ul> <li>at AC</li> <li>b. (1g / 5 ms, 5.8g / 10 ms)</li> <li>b. (1g / 5 ms, 5.8g / 10 ms)</li> <li>b. (1g / 5 ms, 5.8g / 10 ms)</li> </ul> mechanical service life (switching cycles) <ul> <li>of contactor typical</li> <li>10 000 000</li> <li>for 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>foreference code according to IEC 81346-2</li> <li>Q</li> </ul> Q           Substance Prohibitance (Date)         10/01/2014           Ambient conditions         2 000 m               installation altitude at height above sea level maximum <li>2 000 m</li>	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1shock resistance at rectangular impulse• at AC6.1g / 5 ms, 3.7g / 10 ms• at DC6.1g / 5 ms, 3.7g / 10 msshock resistance with sine pulse• at AC9.6g / 5 ms, 5.8g / 10 ms• at AC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• of contactor life (switching cycles)10 000 000• 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 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 typical2 QSubstance Prohibitance (Date)10/01/2014Ambient conditions installation altitude at height above sea level maximum • during operation2 000 m	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC6.1g / 5 ms, 3.7g / 10 ms• at DC6.1g / 5 ms, 3.7g / 10 msshock resistance with sine pulse9.6g / 5 ms, 5.8g / 10 ms• at AC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 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 typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 000• of the contactor with addee auxiliary switch block typical2 000 mambient conditions2 000 m• during operation-25 +60 °C		400 V
• at DC       6.1g / 5 ms, 3.7g / 10 ms         shock resistance with sine pulse       9.6g / 5 ms, 5.8g / 10 ms         • at AC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         mechanical service life (switching cycles)       10 000 000         • of the 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         ference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	shock resistance at rectangular impulse	
shock resistance with sine pulse       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         mechanical service life (switching cycles)       9.6g / 5 ms, 5.8g / 10 ms         • 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         feference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	• at AC	6.1g / 5 ms, 3.7g / 10 ms
• at AC9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 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 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 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions10/01/2014installation altitude at height above sea level maximum • during operation2 000 mambient temperature • during operation-25 +60 °C	● at DC	6.1g / 5 ms, 3.7g / 10 ms
• at DC         9.6g / 5 ms, 5.8g / 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         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           feference code according to IEC 81346-2         Q           Substance Prohibitance (Date)         10/01/2014           Ambient conditions         2 000 m           installation altitude at height above sea level maximum         2 000 m           ambient temperature         -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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C	• at AC	9.6g / 5 ms, 5.8g / 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)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	• at DC	9.6g / 5 ms, 5.8g / 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>10 000 000</li> <li>10 000 000</li> <li>reference code according to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2014</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>2 000 m</li> <li>ambient temperature</li> <li>of uring operation</li> <li>-25 +60 °C</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)       10/01/2014         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C	<ul> <li>of contactor typical</li> </ul>	10 000 000
typical       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     10/01/2014       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)       10/01/2014         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 <ul> <li>during operation</li> <li>-25 +60 °C</li> </ul>	Substance Prohibitance (Date)	10/01/2014
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	95 %
maximum	
Main 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>	690 V
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	60 A
• at AC-1	
- up to 690 V at ambient temperature 40 °C	60 A
rated value	
— up to 690 V at ambient temperature 60 °C	55 A
rated value	
● at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	41.0
— at 400 V rated value	41 A 41 A
- at 500 V rated value	
<ul> <li>— at 690 V rated value</li> <li>at AC-4 at 400 V rated value</li> </ul>	24 A 35 A
<ul> <li>at AC-4 at 400 V fated value</li> <li>at AC-5a up to 690 V rated value</li> </ul>	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	55.2 A
— up to 230 V for current peak value n=20 rated	36.5 A
value	
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	24 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	24.2 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	24.2 A
— up to 500 V for current peak value n=30 rated value	24.2 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	22 A
• at 690 V rated value	18.5 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A

	<i>· · ·</i>
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	14.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	25.2 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	31.6 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	9.6 kVA
• up to 400 V for current peak value n=30 rated value	16.8 kVA
• up to 500 V for current peak value n=30 rated value	21 kVA
• up to 690 V for current peak value n=30 rated value	28.6 kVA
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>	843 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	596 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	400 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	241 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 500 1/h

• at DC	1 500 1/h
operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-3e maximum	300 1/h
	300 1/11
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	20 33 V
at 60 Hz rated value	20 33 V
control supply voltage at DC	
rated value	20 33 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
e at 60 m2 design of the surge suppressor	with varistor
inrush current peak	3 A
duration of inrush current peak	50 µs
locked-rotor current mean value	1 A
	2.6 A
locked-rotor current peak duration of locked-rotor current	230 ms
holding current mean value	40 mA
apparent pick-up power of magnet coil at AC • at 50 Hz	40.1/4
	40 VA
• at 60 Hz	40 VA
apparent holding power of magnet coil at AC	0.1/4
• at 50 Hz	2 VA
• at 60 Hz	2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
arcing time	10 20 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	3A
at 500 V rated value	2 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	2 A 1 A
operational current at DC-12	10.4
at 24 V rated value	10 A
• at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A

e at 125 V rated value     2 A       • at 220 V rated value     1 A       operational current at DC-13     0.15 A       • at 24 V rated value     6 A       • at 60 V rated value     2 A       • at 60 V rated value     2 A       • at 10 V rated value     0.9 A       • at 220 V rated value     0.1 A       • at 60 V rated value     0.1 A       • at 600 V rated value     40 A       • at 480 V rated value     41 A       • at 600 V rated value     41 A       • at 230 V rated value     40 A       • at 230 V rated value     40 A       • at 460 V rated value     40 A       • at 230 V rated value     5 hp       • at 10/120 V rated value     10 hp       • at 20/208 V rated value     15 hp       • at 460/480 V rated value     30 hp       • at 600/2008 V rated value     15 hp       • at 600/2008 V rated value     16 hp       • at 220/200 V rated value     16 hp       • at 60/480 V rated value     10 hp       • at 60/480 V rated value     10 hp       • at 60/480 V rated value     10 hp       • at 60/480 V rated value     16 hp
• at 600 V rated value     0.15 A       operational current at DC-13     6 A       • at 24 V rated value     6 A       • at 48 V rated value     2 A       • at 60 V rated value     2 A       • at 10 V rated value     1 A       • at 220 V rated value     0.9 A       • at 60 V rated value     0.1 A       contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UL/CSA ratings     1       full-oad current (FLA) for 3-phase AC motor     41 A       • at 600 V rated value     40 A       • at 600 V rated value     41 A       yielded mechanical performance [hp]     •       • for 3-phase AC motor     -       - at 10/120 V rated value     3 hp       at 200/208 V rated value     7.5 hp       • for 3-phase AC motor     -       - at 200/208 V rated value     10 hp       - at 480/480 V rated value     30 hp       - at 480/480 V rated value     40 hp       - at 575/600 V rated value     30 hp       - at 575/600 V rated value     40 hp       contact rating of auxiliary contacts according to UL     A600 / Q600       Short-circuit protection     40 hp       - with type of coordination 1 required     gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
operational current at DC-13       6 A         • at 24 V rated value       6 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       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings       1         full-load current (FLA) for 3-phase AC motor       40 A         • at 800 V rated value       40 A         • at 600 V rated value       40 A         • at 600 V rated value       40 A         • at 230 V rated value       40 A         • at 200 V rated value       7.5 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       7.5 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       10 hp         - at 200/208 V rated value       15 hp         - at 480/480 V rated value       30 hp         - at 575/600 V rated value       30 hp         - at 575/600 V rated value       40 A         - at 575/600 V rated value       40 A         - at 575/600 V rated value       40 hp
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 100 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>0.9 A</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 220 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>40 A</li> <li>at 600 V rated value</li> <li>41 A</li> </ul> </li> <li>yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>bp</li> <li>at 200/208 V rated value</li> <li>at 600 V rated value</li> <li>bp</li> <li>at 600/480 V rated value</li> <li>bp</li> <li>at 600/480 V rated value</li> <li>bp</li> <li>at 600/480 V rated value</li> <li>bp</li> <li>at 60/480 V rated value</li> <li>bp</li> <li>at 60/480 V rated value</li> <li>bp</li> <li>at 60/480 V rated value</li> <li>bp</li> <li>at 60/0480 V rated value</li> <li>bp</li> <li>at 60/480 V rated value</li> <li>bp</li> <li>at 60/480 V rated value</li> <li>bp</li> <li>at 60/480 V rated value</li> <li>bp</li> <li>at 60/0480 V rated value</li> <li>bp</li> <li>at 60/480 V rated value</li> <li>bp</li> <li>bp</li> <li>at 60/0480 V rated value</li> <li>bp</li> <li>bp</li> <li>at 60/0480 V rated value</li> <li>bp</li> <li>bp</li> <li>bp</li> <li>bp</li> <li>bp</li> <li>bp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>bp</li> <li>bp</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> <li>A600 / Q600</li> </ul>
• 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       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings       40 A         • at 600 V rated value       41 A         vielded mechanical performance [hp]       • for single-phase AC motor         • at 110/120 V rated value       3 hp         - at 110/120 V rated value       7.5 hp         • for 3-phase AC motor       - at 200/208 V rated value         - at 200/208 V rated value       10 hp         - at 200/208 V rated value       10 hp         - at 200/208 V rated value       10 hp         - at 460/480 V rated value       10 hp         - at 460/480 V rated value       30 hp         - at 460/480 V rated value       40 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
• 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       40 A         • at 600 V rated value       40 A         • at 600 V rated value       41 A         yielded mechanical performance [hp]       • for single-phase AC motor         • at 110/120 V rated value       3 hp         - at 110/120 V rated value       7.5 hp         • for 3-phase AC motor       - at 220/230 V rated value         - at 200/208 V rated value       10 hp         - at 220/230 V rated value       10 hp         - at 460/480 V rated value       30 hp         - at 460/480 V rated value       40 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
• 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       40 A         full-load current (FLA) for 3-phase AC motor       41 A         • at 480 V rated value       40 A         • at 600 V rated value       41 A         yielded mechanical performance [hp]       • for single-phase AC motor         - at 101/120 V rated value       3 hp         - at 230 V rated value       7.5 hp         • for 3-phase AC motor       - at 220/230 V rated value         - at 200/208 V rated value       10 hp         - at 575/600 V rated value       30 hp         - at 575/600 V rated value       40 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
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 800 V rated value</li> <li>at 800 V rated value</li> <li>at 600 V rated value</li> <li>at 100 V rated value</li> <li>at 100 V rated value</li> <li>be for single-phase AC motor</li> <li>at 230 V rated value</li> <li>at 100 V rated value</li> <li>be for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 200/208 V rated value</li> <li>be for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>be for 3-phase AC motor</li> <li>at 460/480 V rated value</li> <li>be for 3-phase AC motor</li> <li>at 460/480 V rated value</li> <li>be for 3-phase AC motor</li> <li>at 460/480 V rated value</li> <li>be for 575/600 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul>
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor         <ul> <li>at 480 V rated value</li> <li>40 A</li> <li>at 600 V rated value</li> <li>41 A</li> </ul> </li> <li>yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 575/600 V rated value</li> <li>for bard-circuit protection</li> </ul> <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul> </li> </ul>
• 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       40 A         • at 480 V rated value       40 A         • at 600 V rated value       41 A         yielded mechanical performance [hp]       • for single-phase AC motor         - at 110/120 V rated value       3 hp         - at 230 V rated value       7.5 hp         • for 3-phase AC motor       10 hp         - at 220/208 V rated value       10 hp         - at 220/230 V rated value       10 hp         - at 55/600 V rated value       40 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       G: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
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       40 A         • at 600 V rated value       41 A         yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value       3 hp         - at 230 V rated value       7.5 hp         • for 3-phase AC motor         - at 200/208 V rated value       10 hp         - at 220/230 V rated value       15 hp         - at 460/480 V rated value       30 hp         - at 575/600 V rated value       40 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>40 A</li> <li>at 600 V rated value</li> <li>41 A</li> </ul> <li>yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>3 hp</li> <li>at 230 V rated value</li> <li>7.5 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 675/600 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>bp</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> <li>A600 / Q600</li> <li>Short-circuit protection</li> <li>design of the fuse link         <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul></li>
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>40 A</li> <li>at 600 V rated value</li> <li>41 A</li> </ul> <li>yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>3 hp</li> <li>at 230 V rated value</li> <li>7.5 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 675/600 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>bp</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> <li>A600 / Q600</li> <li>Short-circuit protection</li> <li>design of the fuse link         <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul></li>
full-load current (FLA) for 3-phase AC motor       40 A         • at 480 V rated value       41 A         yielded mechanical performance [hp]       41 A         • for single-phase AC motor       3 hp         - at 230 V rated value       3 hp         - at 230 V rated value       7.5 hp         • for 3-phase AC motor       10 hp         - at 200/208 V rated value       10 hp         - at 220/230 V rated value       10 hp         - at 460/480 V rated value       30 hp         - at 575/600 V rated value       40 A         Short-circuit protection       A600 / Q600         Short-circuit protection of the main circuit       GG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
<ul> <li>e at 480 V rated value</li> <li>e at 600 V rated value</li> <li>40 A</li> <li>e at 600 V rated value</li> <li>41 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>a at 110/120 V rated value</li> <li>3 hp</li> <li>at 230 V rated value</li> <li>7.5 hp</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>10 hp</li> <li>at 220/230 V rated value</li> <li>5 hp</li> <li>at 460/480 V rated value</li> <li>40 hp</li> <li>at 575/600 V rated value</li> <li>40 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul>
• at 600 V rated value       41 A         yielded mechanical performance [hp]       • for single-phase AC motor         - at 110/120 V rated value       3 hp         - at 230 V rated value       7.5 hp         • for 3-phase AC motor       10 hp         - at 200/208 V rated value       10 hp         - at 220/230 V rated value       15 hp         - at 460/480 V rated value       30 hp         - at 575/600 V rated value       40 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       gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value       3 hp         - at 230 V rated value       7.5 hp         • for 3-phase AC motor         - at 200/208 V rated value       10 hp         - at 220/230 V rated value       15 hp         - at 460/480 V rated value       30 hp         - at 575/600 V rated value       40 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       460 kg V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>bp</li> <li>at 230 V rated value</li> <li>cat 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> </li> <li>Short-circuit protection</li> <li>design of the fuse link         <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul> </li> </ul>
<ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>10 hp</li> <li>at 220/230 V rated value</li> <li>15 hp</li> <li>at 460/480 V rated value</li> <li>30 hp</li> <li>at 575/600 V rated value</li> <li>40 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul>
at 230 V rated value       7.5 hp         • for 3-phase AC motor       10 hp         at 200/208 V rated value       10 hp         at 220/230 V rated value       15 hp         at 460/480 V rated value       30 hp         at 575/600 V rated value       40 hp         Contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       4600 / Q600         Gesign of the fuse link       • for short-circuit protection of the main circuit         with type of coordination 1 required       gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
<ul> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>do hp</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul>
<ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 4200/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>30 hp</li> <li>at 575/600 V rated value</li> <li>40 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul>
<ul> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>30 hp</li> <li>at 575/600 V rated value</li> <li>40 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul> Short-circuit protection design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul>
— at 575/600 V rated value       40 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       40 hp         design of the fuse link       • for short-circuit protection of the main circuit         — with type of coordination 1 required       gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
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
Short-circuit protection         design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (41)</li> </ul>
• for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) required
Installation/ mounting/ dimensions
mounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method         screw and snap-on mounting onto 35 mm standard mounting rail           according to DIN EN 60715         Screw and snap-on mounting onto 35 mm standard mounting rail
• side-by-side mounting Yes
height 114 mm
width 55 mm
depth 174 mm
required spacing
with side-by-side mounting
— forwards 10 mm
— upwards 10 mm
— downwards 10 mm
- at the side 0 mm
for grounded parts
— forwards 10 mm
— upwards 10 mm
- upwards form
— downwards 10 mm
• for live parts
— forwards 10 mm
— upwards 10 mm
— downwards 10 mm
— at the side 6 mm
Connections/ Terminals

type of electrical	connection					
<ul> <li>for main curi</li> </ul>			screw-type termina	als		
<ul> <li>for auxiliary</li> </ul>	and control circuit		screw-type termina	als		
<ul> <li>at contactor</li> </ul>	for auxiliary contacts		Screw-type terminals			
<ul> <li>of magnet co</li> </ul>	-		Screw-type terminals			
type of connectal	ble conductor cross-sect	tions				
<ul> <li>for main con</li> </ul>	itacts					
— solid or	stranded		2x (1 35 mm²),	1x (1 50 mm²)		
- finely st	tranded with core end proc	essing	2x (1 25 mm²), 1x (1 35 mm²)			
<ul> <li>at AWG cab</li> </ul>	les for main contacts		2x (18 2), 1x (18	3 1)		
connectable cond contacts	ductor cross-section for	main				
<ul> <li>finely strand</li> </ul>	ed with core end processir	ng	1 35 mm²			
connectable cond contacts	ductor cross-section for	auxiliary				
<ul> <li>solid or strar</li> </ul>			0.5 2.5 mm²			
,	ed with core end processir	0	0.5 2.5 mm²			
	ble conductor cross-sect	tions				
<ul> <li>for auxiliary</li> </ul>						
— solid or				), 2x (0.75 2.5 mn	,	
-	tranded with core end proc	cessing		), 2x (0.75 2.5 mn	1 <sup>2</sup> )	
	les for auxiliary contacts		2x (20 16), 2x (7	18 14)		
AWG number as section	coded connectable cond	uctor cross				
<ul> <li>for main con</li> </ul>			18 1			
<ul> <li>for auxiliary</li> </ul>	contacts		20 14			
Safety related data	1					
product function						
<ul> <li>mirror contact</li> </ul>	ct 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			
proportion of dan	-					
<ul> <li>with low demand rate according to SN 31920</li> </ul>			40 %			
	mand rate according to SN		73 %			
failure rate [FIT] with low demand rate according to SN 31920			100 FIT			
T1 value for proof test interval or service life according to IEC 61508			20 у			
protection class IP on the front according to IEC 60529			IP20			
touch protection suitability for use	on the front according to	DIEC 60529	finger-safe, for ver	tical contact from the	e front	
safety-related switching OFF			Yes			
Certificates/ appro	vals					
General Product						
Constart roudet	, which are					
	<b>Confirmation</b>	(m)	<u>(</u>	)	<u>KC</u>	103
CSA CSA						CUL
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Ce	ertificates	
	<u>Type Examination</u> <u>Certificate</u>	UK			<u>est Certific-</u> ate	Type Test Certific- ates/Test Report
RCM		CA	EG-Kor			

Marine / Shipping							
ABS	BUREAU VERITAS		Lloyd's Register uts	PRS	RINA		
Marine / Shipping	other		Railway	Dangerous Good			
Confirmation Confirmation Vibration and Shock Transport Informa- tion							
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=3RT2035-1NB34							
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1NB34							
Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
	https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1NB34						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-1NB34&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1NB34/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1NB34&objecttype=14&gridview=view1

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