## SIEMENS

## Data sheet

## 3RT2037-1NF30



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 83-155 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name         SIRUS           product bread esignation         Power contactor           or designation         SR12           Canneal technical data         S2           product oxtension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         +           • at AC in hot operating state         11.4 W           • at AC in hot operating state per pole         3.8 W           • without load current share typical         1W           type of calculation of power loss depending on pole         90 V           • of main circuit with degree of polition 3 rated value         690 V           • of main circuit rated value         640 V           • of auxilary dictuit with degree of polition 3 rated value         640 V           • of auxilary scient with 590 PO         90 V           • auxilary circuit rated value         640 V           • of auxilary circuit rated value         640 V           • of auxilary scient with sine pulse         7.7g / 5 ms, 4.5g / 10 ms	K/t3	
product type designation         3RT2           General technical data	product brand name	SIRIUS
General technical data         Size of contactor         S2           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         11.4 W           • at AC in hot operating state proble         3.8 W         •           • without load current share typical         1W         W           Yeps of calculation of power loss depending on pole         quadratic           • of main circul: with degree of pollution 3 rated value         690 V           • of main circul: rated value         690 V           • of main circul: rated value         690 V           • of main circul: rated value         64 V           • at AC         7.7g / 5 ms, 4.5g / 10 ms           • at AC         12g / 5 ms, 7g / 10 ms           • at AC         10 00 000           • at AC         10 00 000           • at AC         10 00 000           • of the contactor with added ausilary switch block typical         10 000 000           • of the contactor with added ausilary switch block typ	product designation	Power contactor
size of contactor     S2       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     11.4 W       • at AC in hot operating state per pole     3.8 W       • without load current share typical     1 W       type of calculation of power loss depending on pole     quadratic       • 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 main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     7.7g / 5 ms, 4.5g / 10 ms       • at AC     12g / 5 ms, 7g / 10 ms       • at AC     12g / 5 ms, 7g / 10 ms       • at AC     12g / 5 ms, 7g / 10 ms       • at AC     12g / 5 ms, 7g / 10 ms       • at AC     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor	product type designation	3RT2
product extension       No         • function module for communication       No         • auxiliary switch       Yes         • at AC in hot operating state       11.4 W         • at AC in hot operating state per pole       3.8 W         • without load current share typical       1 W         type of calculation of power loss depending on pole       quadratic         Insulation voltage       690 V         • 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 auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       6kV         • of auxiliary surface       7.7g / 5 ms, 4.5g / 10 ms         • at DC       12g / 5 ms, 7g / 10 ms         • at DC       12g / 5 ms, 7g / 10 ms         • at DC       <	General technical data	
• function module for communication         No           • auxiliary switch         Yes           power loss [V] for rated value of the current         -           • at AC in hot operating state         11.4 VV           • at AC in hot operating state per pole         3.8 VV           • without load current share typical         1W           (Pype of calculation of power loss depending on pole         quadratic           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         690 V           • of main circuit rated value         690 V           • of main circuit rated value         64V           • of main circuit rated value         64V           • of auxiliary circuit with degree of pollution 3 rated value         64V           • of main circuit rated value         64V           • of auxiliary circuit with degree of pollution stated value         64V           • of auxiliary circuit with degree of pollution stated value         64V           • of main circuit rated value         64V           • of main circuit rated value         64V           • of auxiliary circuit with degree of pollution 3 rated value         7.7 / 5 ms, 4.5g / 10 ms           • at AC <td< th=""><th>size of contactor</th><th>S2</th></td<>	size of contactor	S2
• auxiliary switch         Yes           power loss [W] for rated value of the current         II.4 W           • at AC in hot operating state         11.4 W           • at AC in hot operating state per pole         3.8 W           • without load current share typical         1W           type of calculation of power loss depending on pole         quadratic           • 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         680 V           • of main circuit with degree of pollution 3 rated value         680 V           • of main circuit with degree of pollution 3 rated value         640 V           • of auxiliary circuit rated value         6 kV           • of main circuit with degree of pollution 3 rated value         6 kV           • of auxiliary circuit rated value         6 kV           • of main 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         7.7g / 5 ms, 4.5g / 10 ms           • at AC         12g / 5 ms, 7g / 10 ms           • at DC         10000 000           • of the contactor	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>3.8 W</li> <li>at AC in hot operating state per pole</li> <li>3.8 W</li> <li>without load current share typical</li> <li>1 W</li> </ul> <li>type of calculation of power loss depending on pole</li> <li>quadratic</li> <li>insultation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>690 V</li> <li>surge voltage resistance</li> <li>of main circuit rated value</li> <li>6 kV</li> <li>of auxiliary circuit rated value</li> <li>6 kV</li> <li>of animic protective separation between coll and main contacts according to EN 60947-1</li> <li>shock resistance at rectangular impulse</li> <li>at AC</li> <li>at DC</li> <li>book resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>book resistance with added actinically optimized axiliary switch block typical</li> <li>at DC</li> <li>book resistance area</li> <li>at DC</li> <li>at DC</li> <li>book resistance area</li> <li>booo</li>	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state prote11.4 W• at AC in hot operating state prote3.8 W• without load current share typical1 W• type of calculation of power loss depending on polequadraticinsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value600 V• 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 value7.7g / 5 ms, 4.5g / 10 ms• of auxiliary circuit rated value7.7g / 5 ms, 4.5g / 10 ms• at AC7.7g / 5 ms, 4.5g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC1000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch b	auxiliary switch	Yes
• at AC in hot operating state per pole       3.8 W         • without load current share typical       1 W         type of calculation of power loss depending on pole       quadratic         insultation voltage       690 V         • 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 auxiliary circuit rated value       680 V         • of auxiliary circuit rated value       6 kV         • at AC       7.7g / 5 ms, 4.5g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at DC       12g / 5 ms, 7g / 10 ms         • at DC       10000 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	power loss [W] for rated value of the current	
• without load current share typical1 Wtype of calculation of power loss depending on polequadraticinsulation voltage90 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value690 V• of main circuit rated value600 V• of auxiliary circuit rated value64 KV• of auxiliary circuit rated value64 KV• of auxiliary circuit rated value600 V• of auxiliary circuit rated value600 V• of auxiliary circuit rated value64 KV• of auxiliary circuit rated value64 KV• of auxiliary circuit rated value600 V• of auxiliary circuit rated value7.7g / 5 ms, 4.5g / 10 ms• at AC7.7g / 5 ms, 4.5g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC10 000 000• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block 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	<ul> <li>at AC in hot operating state</li> </ul>	11.4 W
type of calculation of power loss depending on polequadraticinsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of main circuit rated value68 V• of main circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse7.7g / 5 ms, 4.5g / 10 ms• at AC7.7g / 5 ms, 4.5g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 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 EC 81346-2QSubstance Prohibitance (Date)10/01/2014SVHC substance name1.125 kgAmbient conditions1.125 kgAnbient conditions2 000 mambient temperature2 000 m	<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
Insulation voltage       690 V         • 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       7.7g / 5 ms, 4.5g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized       2000 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 0000 000	<ul> <li>without load current share typical</li> </ul>	1 W
• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value60 V• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 V• at AC7.7g / 5 ms, 4.5g / 10 ms• at AC7.7g / 5 ms, 4.5g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC100 000• at DC100 000• at AC100 000• at AC100 000• at AC1000 000• of the contactor with added electronically optimized auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10000 000• of the contactor with added auxiliary switch block typical10001/2014Svbctance normeLead 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8Weightta height above sea level maximum2	type of calculation of power loss depending on pole	quadratic
of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance	insulation voltage	
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         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       7.7g / 5 ms, 4.5g / 10 ms         • at DC       7.7g / 5 ms, 7g / 10 ms         shock resistance with sine pulse       12g / 5 ms, 7g / 10 ms         • at DC       12g / 5 ms, 7g / 10 ms         • at DC       12g / 5 ms, 7g / 10 ms         • at DC       12g / 5 ms, 7g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized       5 000 000         auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to EC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Evad ~ 7439-92-1       Lead - 7439-92-1         Lead monoxide (lead oxide) - 1317-36-8       Weight         Anbient conditions       2 000 m	<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 protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse400 V• at AC7.7g / 5 ms, 4.5g / 10 ms• at AC7.7g / 5 ms, 4.5g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC10 000 000• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block 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 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	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse400 V• at AC7.7g / 5 ms, 4.5g / 10 ms• at DC7.7g / 5 ms, 4.5g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC10 000 000• of contactor typical5000 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 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 typical10 000 000• of the contactor with added auxiliary switch block typical200 m• of the contactor with addee determine2 000 m• of the contactor with addee determine2 000 m	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse • at AC • at DC7.7g / 5 ms, 4.5g / 10 msshock resistance with sine pulse • at AC • at DC7.7g / 5 ms, 4.5g / 10 msshock resistance with sine pulse • at AC • at DC7.7g / 5 ms, 7g / 10 msshock resistance with sine pulse • at AC • at DC12g / 5 ms, 7g / 10 msshock resistance vith added electronically optimized auxiliary switch block typical10 000 000of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical10 000 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QWeight1.125 kgAmbient conditions installation altitude at height above sea level maximum ambient temperature2 000 m	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse         • at AC       7.7g / 5 ms, 4.5g / 10 ms         • at DC       7.7g / 5 ms, 4.5g / 10 ms         • at DC       7.7g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at AC       10 000 000         • 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       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         velgent       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Weight       1.125 kg         Ambient conditions       2 000 m	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC7.7g / 5 ms, 4.5g / 10 ms• at DC7.7g / 5 ms, 4.5g / 10 msshock resistance with sine pulse12g / 5 ms, 7g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 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 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 typical10/01/2014SVHC substance nameLead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8Weight1.125 kgAmbient conditions2 000 minstallation altitude at height above sea level maximum2 000 m		400 V
• at DC7.7g / 5 ms, 4.5g / 10 msshock resistance with sine pulse7.7g / 5 ms, 4.5g / 10 ms• at AC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• 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 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 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 <t< th=""><th>shock resistance at rectangular impulse</th><th></th></t<>	shock resistance at rectangular impulse	
shock resistance with sine pulse       12g / 5 ms, 7g / 10 ms         • at AC       12g / 5 ms, 7g / 10 ms         • at DC       12g / 5 ms, 7g / 10 ms         mechanical service life (operating cycles)       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         • 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         SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Weight       1.125 kg         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m	• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at AC12g / 5 ms, 7g / 10 ms• at DC12g / 5 ms, 7g / 10 msmechanical service life (operating 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 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 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 typical10 000 000• of the contactor with added auxiliary switch block typical10 12014• of the contactor with added auxiliary switch block typical1125 kg• of the co	• at DC	7.7g / 5 ms, 4.5g / 10 ms
• at DC12g / 5 ms, 7g / 10 msmechanical service life (operating 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 typical000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0• of the contactor with added auxiliary switch block typical10 000 000• of the contactor block typical10 000 000• of the contactor block typical10 000 000• of the contactor block typical0• of the contactor block typical10 000 000• of the contactor block typical10 000 000• of the contactor block typical10 000 000• of the contactor block typical10/01/2014Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8• Weight1.125 kgAmbient conditions2 000 m• installation altitude at height above sea level maximum2 000 m• ambient temperature2 000 m	shock resistance with sine pulse	
mechanical service life (operating 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         SVHC substance name       Lead - 7439-92-1         Lead monoxide (lead oxide) - 1317-36-8         Weight       1.125 kg         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m	• at AC	12g / 5 ms, 7g / 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)10/01/2014SVHC substance nameLead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8Weight1.125 kgAmbient conditions2 000 m	• at DC	12g / 5 ms, 7g / 10 ms
• 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Weight       1.125 kg         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m	mechanical service life (operating cycles)	
auxiliary switch block typical       I0 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Weight       1.125 kg         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m	<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Weight       1.125 kg         Ambient conditions       2 000 m         ambient temperature       2 000 m		5 000 000
Substance Prohibitance (Date)       10/01/2014         SVHC substance name       Lead - 7439-92-1         Lead monoxide (lead oxide) - 1317-36-8         Weight       1.125 kg         Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       Image: Condition of the condition of t	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
SVHC substance name     Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8       Weight     1.125 kg       Ambient conditions     2 000 m       installation altitude at height above sea level maximum     2 000 m	reference code according to IEC 81346-2	Q
Lead monoxide (lead oxide) - 1317-36-8           Weight         1.125 kg           Ambient conditions         2 000 m           ambient temperature         2 000 m	Substance Prohibitance (Date)	10/01/2014
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       2 000 m	SVHC substance name	
installation altitude at height above sea level maximum     2 000 m       ambient temperature     2 000 m	Weight	1.125 kg
ambient temperature	Ambient conditions	
	installation altitude at height above sea level maximum	2 000 m
• during operation -25 +60 °C	ambient temperature	
	during operation	-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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	107 kg
Global Warming Potential [CO2 eq] during manufacturing	5.88 kg
Global Warming Potential [CO2 eq] during operation	102 kg
Global Warming Potential [CO2 eq] after end of life	-0.988 kg
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
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated value	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	CE A
— at 400 V rated value	65 A
— at 500 V rated value	65 A 47 A
<ul> <li>at 690 V rated value</li> <li>at AC-4 at 400 V rated value</li> </ul>	47 A 55 A
	70.4 A
<ul> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5b up to 400 V rated value</li> </ul>	53.9 A
• at AC-6a	00.0 A
— up to 230 V for current peak value n=20 rated value	56.9 A
— up to 400 V for current peak value n=20 rated value	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
• at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	45 A

— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
	0.0 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 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
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 60 V rated value	6 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 60 V rated value	45 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 60 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>	30 kW
● at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	14.7 kW
• at 690 V rated value	20 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	22.6 kVA
• up to 400 V for current peak value n=20 rated value	39.4 kVA
• up to 500 V for current peak value n=20 rated value	49.2 kVA
• up to 690 V for current peak value n=20 rated value	56.1 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	15.1 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	26.2 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	32.8 kVA
• up to 690 V for current peak value n=30 rated value	45.3 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>	1 055 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	730 A; Use minimum cross-section acc. to AC-1 rated value

<ul> <li>limited to 10 c switching at zero surrent maximum</li> </ul>	520 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	336 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	272 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	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	700 1/h
• at AC-3e maximum	700 1/h
• at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	83 155 V
• at 60 Hz rated value	83 155 V
control supply voltage at DC rated value	83 155 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
inrush current peak	1.5 A
duration of inrush current peak	50 µs
locked-rotor current mean value	0.45 A
locked-rotor current peak	0.8 A
duration of locked-rotor current	230 ms
holding current mean value	12 mA
apparent pick-up power of magnet coil at AC	
● at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power	
<ul> <li>at minimum rated control supply voltage at DC</li> </ul>	2 VA
<ul> <li>at maximum rated control supply voltage at DC</li> </ul>	2 VA
apparent holding power	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	2 VA
• at 60 Hz	2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.95
• at 60 Hz	0.95
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
	10 20 ms
arcing time	10 20 1113

Austance of cell         0.00000000000000000000000000000000000	control version of the switch operating mechanism	Standard A1 - A2
number of NC contacts for auxiliary contacts instantaneous contact         1           number of NO contacts for auxiliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           operational current at AC-12         2 A           of BOV (rade value         2 A           o a B		
pumber of ND corders's for auxiliary contects instantaneous operational current at AC-15         1           operational current at AC-15         10 A           e at 200 V rated value         3 A           e at 200 V rated value         3 A           e at 200 V rated value         3 A           e at 200 V rated value         1 A           operational current at DC-12	number of NC contacts for auxiliary contacts instantaneous	1
operational current at AC-15         10 A           ••••••••••••••••••••••••••••••••••••	number of NO contacts for auxiliary contacts instantaneous	1
operational current at AC-15         0           • 1.430 V rated value         3 A           • 1.650 V rated value         3 A           • 1.650 V rated value         1A           operational current at DC-12         •           • 1.14 V rated value         6 A           • 1.614 V rated value         6 A           • 1.614 V rated value         6 A           • 1.614 V rated value         0 A           • 1.610 V rated value         0 A           • 1.62 V rated value         0 A           • 1.62 V rated value         0 A           • 1.610 V rated value         0 A	operational current at AC-12 maximum	10 A
• • # 230 V pitel value10 Å• • # 400 V mice value2 Å• • # 600 V mice value1 Å• • # 600 V mice value1 Å• • # 61 V mice value10 Å• • # 61 V mice value0 Å• • # 61 V mice value0 Å• • # 61 V mice value2 Å• • # 61 V mice value0 Å• • # 61 V mice value0 Å• • # 10 V mice value0 Å• • # 10 V mice value0 Å Å• • # 10 V mice value0 Å• • • # 10 V mice value0 Å• • • * # 10 V mice value0 Å• • • * * # 10	· · · · · · · · · · · · · · · · · · ·	
• al 400 V field value3 A• al 600 V rind value2 A• al 600 V rind value1 Aoppational current al DC-12•• al 24 V rade value6 A• al 60 V rade value6 A• al 60 V rade value0 A• al 60 V rade value1 A• al 60 V rade value0 A• al 60 V rade value<	•	10 A
• al 800 V rated value2 Aoperational current at DC-12IA• al 82 V rated value10 A• al 82 V rated value6 A• al 80 V rated value6 A• al 10 V rated value0 A• al 112 V rated value0 A• al 122 V rated value0 A• al 125 V rated value0 A• al 120 V rated value0 A• al 120 V rated value0 A• al 220 V rated value0 A• al 220 V rated value0 A• al 24 V rated value0 A• al 24 V rated value2 A• al 24 V rated value2 A• al 24 V rated value0 A• al 24 V rated value0 A• al 24 V rated value0 A• al 25 V rated value0 A• al 25 V rated value0 A• al 100 V rated value6 A• al 200		
• al 6800 Vrated value1 Aoperational current at DC-12IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
operational current at DC-12         10 A           • at 24 V rided value         10 A           • at 24 V rided value         6 A           • at 80 V rided value         6 A           • at 125 V rided value         2 A           • at 125 V rided value         0.15 A           Operational current at DC-13         10 A           • at 20 V rided value         2 A           • at 40 V rided value         2 A           • at 40 V rided value         2 A           • at 40 V rided value         2 A           • at 60 V rised value         2 A           • at 60 V rised value         0.3 A           • at 125 V rised value         0.3 A           • at 250 V rised value         0.3 A           • at 260 V rised value         0.3 A           • at 800 V rised value         0.1 A           constart infibility of auxillary contacts         1 faulty switching per 100 million (17 V, 1 mA)           ULCGA ratings         full-act current (FLA) for 3-phase AC motor           • at 800 V rised value         5 hp           • at 8000 V rised value         5 hp      <		
a : 24 V rated value0 A• at 24 V rated value6 A• at 10 V rated value6 A• at 110 V rated value3 A• at 220 V rated value1 A• at 220 V rated value0.15 A• or 220 V rated value10 A• at 24 V rated value10 A• at 24 V rated value0.15 A• or 24 V rated value10 A• at 24 V rated value10 A• at 24 V rated value2 A• at 24 V rated value0.3 A• at 220 V rated value0.3 A• at 220 V rated value0.1 A• or at 220 V rated value0.1 A• or at 220 V rated value0.1 A• or at 220 V rated value0.5 A• at 80 V rated value0.5 A• at 80 V rated value0.5 A• or at 900 F or angle-phase AC motor• at 800 V rated value5 A• at 800 V rated value5 A• at 800 V rated value5 A• or angle-phase AC motor- at 200206 V rated value20 hp- at 200207 V rated value50 hp- at 200208 V rated value50 hp- at 400 V rated value60 hp- at 400 V rated value50 hp- at 200208 V rated value50 hp- at 200208 V rated value50 hp- at 4000 V rated value50 hp- at 4000 V rated value60 hp		
ait 45 V rated value6 A• at 160 V rated value6 A• at 110 V rated value2 A• at 25 V rated value0.15 A• at 260 V rated value0.15 A• at 260 V rated value10 A• at 26 V rated value2 A• at 26 V rated value2 A• at 26 V rated value0.15 A• at 26 V rated value2 A• at 26 V rated value2 A• at 26 V rated value0.9 A• at 26 V rated value0.9 A• at 26 V rated value0.9 A• at 260 V rated value0.3 A• at 260 V rated value0.14 A• at 460 V rated value0.14 A• at 260 V rated value0.14 A• at 260 V rated value0.16 A• at 260 V rated value0.10 hp• for single-phase AC motor	-	10 A
• at 110 V rated value3 A• at 120 V rated value2 A• at 250 V rated value0.15 A• operational current at DC-1310 A• at 24 V rated value10 A• at 24 V rated value2 A• at 24 V rated value2 A• at 24 V rated value0.9 A• at 250 V rated value0.9 A• at 250 V rated value0.1 A• at 250 V rated value0.1 A• at 250 V rated value0.1 A• at 260 V rated value0.1 A• at 260 V rated value0.1 A• at 260 V rated value0.5 A• at 800 V rated value65 A• at 800 V rated value50 P• of raingle-phase AC motor-• at 300 V rated value50 P• at 300 V rated value50 P• of raingle-phase AC motor-• at 200208 V rated value20 P• at 200208 V rated value20 P• at 200208 V rated value50 P• at 300 V rated value50 P• at 300 V rated value60 N p• at 300 V rated value60 N p• at 300 V rated value50 N p• at 300 V rated value50 N p• at 300 V rated value50 N p• at 40040 V rated value60 N p• at 500 V rated value50 N p• at 500 V rated value <td< td=""><td></td><td></td></td<>		
• at 125 V rated value     2 A       • at 200 V rated value     0.15 A       • ett 200 V rated value     0.15 A       • ett 24 V rated value     2 A       • at 40 V rated value     0.9 A       • at 200 V rated value     0.3 A       • at 200 V rated value     0.3 A       • at 200 V rated value     0.3 A       • at 800 V rated value     0.5 A       • at 800 V rated value     0.5 A       • at 800 V rated value     85 A       • at 800 V rated value     85 A       • at 800 V rated value     10 hp       • at 800 V rated value     5 hp       - at 200 V rated value     10 hp       • at 800 V rated value     5 hp       - at 10120 V rated value     5 hp       - at 200 V rated value     50 hp       - at 200 V rated value     80 hp       - at 200 V rated value     80 hp       - at 200 V rated value     90 hp       - at 200208 V rated value     80 hp       - at 200208 V rated value     90 hp       - at 200208 V rated value     90 hp       - at 200208 V rated value     90 hp       - at	• at 60 V rated value	6 A
• at 125 V rated value     2 A       • at 200 V rated value     0.15 A       • ett 200 V rated value     0.15 A       • ett 24 V rated value     2 A       • at 40 V rated value     0.9 A       • at 200 V rated value     0.3 A       • at 200 V rated value     0.3 A       • at 200 V rated value     0.3 A       • at 800 V rated value     0.5 A       • at 800 V rated value     0.5 A       • at 800 V rated value     85 A       • at 800 V rated value     85 A       • at 800 V rated value     10 hp       • at 800 V rated value     5 hp       - at 200 V rated value     10 hp       • at 800 V rated value     5 hp       - at 10120 V rated value     5 hp       - at 200 V rated value     50 hp       - at 200 V rated value     80 hp       - at 200 V rated value     80 hp       - at 200 V rated value     90 hp       - at 200208 V rated value     80 hp       - at 200208 V rated value     90 hp       - at 200208 V rated value     90 hp       - at 200208 V rated value     90 hp       - at		
• at 220 V rated value1 A• at 240 V rated value0.15 A• operational current at DC-1310.A• at 24 V rated value10.A• at 30 V rated value2 A• at 100 V rated value2 A• at 100 V rated value0.9 A• at 125 V rated value0.9 A• at 220 V rated value0.1 A• at 200 V rated value0.1 A• at 200 V rated value0.1 A• at 200 V rated value0.1 A• at 400 V rated value0.5 A• at 200 V rated value0.5 P• at 200208 V rated value0.5 P• at 40400 V rated value0.5 P• at 40040 V rated value0.5 P• at 4		
• at 600 V rated value0.15 Åoperational current at DC-13I• at 24 V rated value2 Å• at 60 V rated value2 Å• at 60 V rated value2 Å• at 60 V rated value0.9 Å• at 125 V rated value0.9 Å• at 220 V rated value0.1 Å• at 220 V rated value0.1 Åcontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mÅ)Ut/CSA ratings1full-load current (FLA) for 3-phase AC motor65 Å• at 480 V rated value65 Å• at 480 V rated value5 hp• at 600 V rated value5 hp• at 600 V rated value5 hp- at 220 V rated value20 hp- at 220 V rated value5 hp- at 220 V rated value20 hp- at 220 V rated value50 hp- at 220 V rated value50 hp- at 220 V rated value50 hp- at 575600 V rated value50 hp- at 675600 V rated value50 hp <td></td> <td></td>		
operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>10 A</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>2 A</li> <li>at 10 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/05A current (FLA) for 3-phase AC motor</li> <li>at 800 V rated value</li> <li>65 A</li> <li>at 800 V rated value</li> <li>52 A</li> <li>yioidod mechanical performance (tp)</li> <li>of single-phase AC motor</li> <li>- at 1200 V rated value</li> <li>10 hp</li></ul>		
• at 24 V rated value     10 Å       • at 48 V rated value     2 Å       • at 60 V rated value     1 Å       • at 125 V rated value     0.9 Å       • at 120 V rated value     0.1 Å       • at 220 V rated value     0.1 Å       • contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       U/CSA ratings     0.1 Å       full-load current (FLA) for 3-phase AC motor     65 Å       • at 480 V rated value     65 Å       • at 480 V rated value     52 Å       • at 480 V rated value     52 Å       • at 100 V rated value     52 Å       • at 100 V rated value     50 hp       - at 100/120 V rated value     50 hp       - at 200/208 V rated value     20 hp       - at 200/208 V rated value     20 hp       - at 200/208 V rated value     50 hp       - at 200/208 V rated value     50 hp       - at 40480 V rated value     50 hp       - at 40480 V rated value     50 hp       - at 4575/600 V rated value     50 hp       - at 4575/600 V rated value     50 hp       - at 4575/600 V rated value     50 hp       - at 60/408 V rated value     50 hp       - at 60/408 V rated value     50 hp       - at 575/600 V rated value     50 hp       - at 575/600 V rated value<		
• at 48 V rated value2 A• at 60 V rated value2 A• at 100 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 200 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UUCSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value65 A• at 480 V rated value65 A• at 600 V rated value52 A• for single-phase AC motor-• at 200 V rated value50 hp• at 200 V rated value50 hp• at 200 V rated value50 hp- at 200/208 V rated value20 hp- at 200/208 V rated value20 hp- at 200/208 V rated value50 hp- at 460/480 V rated value50 hp- at 57/500 V rated value50 hp- at 57/500 V rated value50 hp- at 57/500 V rated value50 hp- with hype of coordination 1 requiredgG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 100A (415V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 10 kA), aM: 160 A (690 V, 100 kA), BS8: 100A (415V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 10 kA), aM: 160 A (690 V, 100 kA), BS88: 100A (415V, 80 kA)• for shor	•	10 A
• at 60 V rated value     2 A       • at 110 V rated value     1 A       • at 120 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)       U/CSA rating:     Ifulled current (FLA) for 3-phase AC motor       • at 400 V rated value     65 A       • at 600 V rated value     65 A       • at 600 V rated value     52 A       yielded mechanical performance (hp)     •       • for single-phase AC motor     -       - at 200 V rated value     5 hp       - at 200 V rated value     50 hp       - at 200 V rated value     50 hp       - at 200/208 V rated value     50 hp       - at 200/208 V rated value     50 hp       - at 200/208 V rated value     50 hp       - at 575600 V rated value     50 hp       - with type of assignment 2 required     gG: 250 A (590 V, 100 kA), aM: 160 A (590 V, 100 kA), BS88: 100A (415V, 80 kA)       - with type of assignment 2 required     gG: 10 A (500 V, 10 k		
• 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)         U/CSA ratings       1 faulty switching per 100 million (17 V, 1 mA)         U/CSA ratings       65 A         • at 400 V rated value       65 A         • at 600 V rated value       5 A         • pielded mechanical performance [tp]       • for single-phase AC motor         - at 101/120 V rated value       5 hp         - at 200 V rated value       10 hp         • for 3-phase AC motor       -         - at 200 V rated value       20 hp         - at 200/208 V rated value       10 hp         - at 200/208 V rated value       50 hp         - at 200/208 V rated value       50 hp         - at 450/480 V rated value       50 hp         - at 675600 V rated value       50 hp         contact rating of auxiliary contacts according to UL       A800 / P800         Short-circuit protection of the main circuit       g6: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 200 A (415 V, 80 kA)         - with type of assignment 2 required       g6: 10 A (500 V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 200 A (415 V, 80 kA)         • for short-circuit prote		
• 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 auxillary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UUCSA ratings     1       full-load current (FLA) for 3-phase AC motor     65 A       • at 400 V rated value     65 A       • at 600 V rated value     52 A       • for single-phase AC motor     -       - at 200 V rated value     5 hp       • for 3-phase AC motor     -       - at 200 V rated value     20 hp       - at 200/208 V rated value     50 hp       - at 200/208 V rated value     50 hp       - at 200/208 V rated value     50 hp       - at 460/480 V rated value     50 hp       - at 460/480 V rated value     50 hp       contact rating of auxillary contacts according to UL     A600 / P600       Short-circuit protection of the main circuit     - with type of coordination 1 required       - with type of assignment 2 required     g6: 125A (680V, 100 kA), aki: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)       - with type of assignment 2 required     g6: 10 A (600 V, 100 kA), aki: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)		
• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 fauly switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-odd current (FLA) for 3-phase AC motor65 A• at 460 V rated value65 A• at 460 V rated value52 Ayielded mechanical performance (hp)5 hp- at 101/120 V rated value5 hp- at 230 V rated value10 hp• for 3-phase AC motor20 hp- at 200/280 V rated value20 hp- at 200/280 V rated value50 hpcontact rating of auxiliary contacts according to ULA600 / P600Short-circuit protectiong6: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)- with type of coordination 1 requiredg6: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)- with type of assignment 2 requiredg6: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)- with type of assignment 2 requiredg6: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)- with type of assignment 2 requiredg6: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)- with type of assignment 2 requiredg6: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)- with type of assignment 2 requiredg6: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)		
• at 600 V rated value     0.1 A       contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UICSA ratings     5       full-load current (FLA) for 3-phase AC motor     65 A       • at 800 V rated value     52 A       yieldod mechanical performance [tp]     6       • for single-phase AC motor     -       - at 110/120 V rated value     5 hp       - at 200208 V rated value     10 hp       - at 200208 V rated value     20 hp       - at 200208 V rated value     20 hp       - at 200208 V rated value     50 hp       - at 575/600 V rated value     50 hp       Contact rating of auxillary contacts according to UL     A800 / P600       Short-circuit protection of the main circuit     gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)       - with type of coordination 1 required     gG: 250 A (690 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 200 A (415 V, 80 KA)       - with type of assignment 2 required     gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100 A (415V, 80 KA)       i or short-circuit protection of the auxiliary switch required     <		
contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         JU/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value       65 A         • at 600 V rated value       52 A         yielded mschanical performance (hp)       •         • for single-phase AC motor       -         - at 100/120 V rated value       5 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       50 hp         - at 460/480 V rated value       50 hp         - at 460/480 V rated value       50 hp         contact rating of auxiliary contacts according to UL       A600 / P600         Short-circuit protection       GG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 200 A (415 V, 80 kA)         - with type of coordination 1 required       gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 200 A (415 V, 80 kA)         - with type of coordination 1 required       gG: 125A (690V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 200 A (415 V, 80 kA)         - with type of coordination 1 required       gG: 125A (690V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 200 A (415 V, 80 kA)         - with type of coordination 1 required       gG: 125A (690V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 100A (415 V, 80 kA)         - wi		
UL/CSA ratings         full-bade current (FLA) for 3-phase AC motor         • at 480 V rated value       65 A         • at 600 V rated value       52 A         yielded mechanical performance [hp]       •         • for single-phase AC motor       -         - at 10/120 V rated value       10 hp         • for 3-phase AC motor       20 hp         - at 230 V rated value       20 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       20 hp         - at 460/480 V rated value       50 hp         - at 575/600 V rated value       50 hp         contact rating of auxiliary contacts according to UL       A600 / P600         Short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)         - with type of coordination 1 required       gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 KA)         i for short-circuit protection of the auxiliary switch required       gG: 125A (690 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 KA)         i for short-circuit protection of the auxiliary switch required       gG: 125A (690 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 KA)         i for short-circuit protection of the auxiliary switch required       gG: 12		
full-load current (FLA) for 3-phase AC motor       65 A         • at 480 V rated value       65 A         • at 600 V rated value       52 A         yiolded mechanical performance [hp]       5 hp         • for single-phase AC motor       5 hp         - at 200 V rated value       5 hp         • for single-phase AC motor       0 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       50 hp         - at 200/208 V rated value       50 hp         - at 460/480 V rated value       50 hp         - at 460/480 V rated value       50 hp         - at 460/480 V rated value       50 hp         contact rating of auxiliary contacts according to UL       A600 / P600         Short-circuit protection       g6: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)         • for short-circuit protection of the auxiliary switch required       g6: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 KA)         • for short-circuit protection of the auxiliary switch required       g6: 10 A (500 V, 1 kA)         Installation/ mounting dimensions       +/180'' rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5' on vertical mounting surface;<		
• at 480 V rated value       65 Å         • at 800 V rated value       52 Å         yielded mechanical performance [tp]       5         • for single-phase AC motor       -         - at 110/120 V rated value       5 hp         - at 230 V rated value       10 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       50 hp         - at 457/5000 V rated value       50 hp         - at 57/5000 V rated value       50 hp         contact rating of auxiliary contacts according to UL       A600 / P600         Short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)         • for short-circuit protection of the main circuit       -         - with type of assignment 2 required       gG: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)         • for short-circuit protection of the auxiliary switch required       gG: 10 A (500 V, 1 kA)         Installation/ mounting/ dimensions       +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be		
• at 600 V rated value       52 A         yielded mechanical performance [hp]       -         • for single-phase AC motor       5 hp         - at 1201 V rated value       10 hp         • for 3-phase AC motor       20 hp         - at 200/208 V rated value       50 hp         - at 400/480 V rated value       50 hp         - at 575/600 V rated value       50 hp         contact rating of auxiliary contacts according to UL       A600 / P600         Short-circuit protection       gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)         • for short-circuit protection of the main circuit       gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)         • for short-circuit protection of the auxiliary switch required       gG: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)         • for short-circuit protection of the auxiliary switch required       gG: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)         • for short-circuit protection of the auxiliary switch required       gG: 10 A (500 V, 1 kA)         Installation/ mounting/ dimensions       +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 2		65 A
yielded mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value       5 hp         - at 230 V rated value       10 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       20 hp         - at 200/208 V rated value       50 hp         - at 460/480 V rated value       50 hp         contact rating of auxiliary contacts according to UL       A600 / P600         Short-circuit protection       4600 / P600         Gesign of the fuse link       6 for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA)         - with type of assignment 2 required       gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)         of or short-circuit protection of the auxiliary switch required       gG: 10 A (500 V, 100 kA), aM: 63A (690V,100 kA), BS88: 100A (415V,80 kA)         for short-circuit protection of the auxiliary switch required       gG: 125A (690V,100 kA), aM: 63A (690V,100 kA), BS88: 100A (415V,80 kA)         for short-circuit protection of the auxiliary switch required       gG: 125A (690V,100 kA), aM: 63A (690 V, 100 kA), BS88: 100A (415V,80 kA)         for short-circuit protection of the auxil		
<ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>20 hp</li> <li>at 250/208 V rated value</li> <li>20 hp</li> <li>at 460/480 V rated value</li> <li>50 hp</li> <li>at 575/600 V rated value</li> <li>50 hp</li> <li>bort-circuit protection</li> <li>Geisgn 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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 200 A (415 V, 80 kA)</li> <li>with type of assignment 2 required</li> <li>gG: 10 A (500 V, 100 kA), aM: 63A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (500 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415 V, 80 kA)</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (500 V, 100 kA), aM: 63A (690 V, 100 kA), BS88: 100A (415 V, 80 kA)</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>dg: 10 A (500 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415 V, 80 kA)</li> <li>transformation</li> <li>transformation</li> <li>transformation</li> <li>transformation</li> <li>transformation</li> <li>transformation</li></ul>		
- at 110/120 V rated value5 hp- at 230 V rated value10 hp• for 3-phase AC motor at 200/208 V rated value20 hp- at 220/230 V rated value20 hp- at 460/480 V rated value50 hp- at 55/600 V rated value50 hp- at 55/600 V rated value50 hpcontact rating of auxiliary contacts according to ULA600 / P600Short-circuit protectiondesign of the fuse link• for short-circuit protection of the main circuit- with type of coordination 1 requiredgG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 200 A (415 V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS8: 100A (415 V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 125A (690 V, 100 kA), aM: 63A (690 V, 100 kA), BS8: 100A (415 V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 125A (690 V, 100 kA), aM: 63A (690 V, 100 kA), BS8: 100A (415 V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/ mounting/ dimensions+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surfacefastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height114 mmwidth55 mmdepth130 mm- onwards10 mm- upwards10 mm <td></td> <td></td>		
at 230 V rated value10 hp• for 3-phase AC motor20 hp at 200/208 V rated value20 hp at 220/230 V rated value20 hp at 460/480 V rated value50 hp at 4575/600 V rated value50 hpcontact rating of auxiliary contacts according to ULA600 / P600Short-circuit protectiondesign of the fuse link• for short-circuit protection of the main circuit- with type of coordination 1 requiredgG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)• of short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)• of short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 10 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/ mounting position\$-/-180° rotation possible on vertical mounting surface; can be tilled forward and backward by +-2.2.5° on vertical mounting surfacefastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height114 mmwidth55 mmdepth10 mm- forwards10 mm- upwards10 mm		5 hp
• for 3-phase AC motor20 hp- at 220/208 V rated value20 hp- at 220/230 V rated value20 hp- at 460/480 V rated value50 hp- at 460/480 V rated value50 hpcontact rating of auxiliary contacts according to ULA600 / P600Short-circuit protectiondesign of the fuse link• for short-circuit protection of the main circuit- with type of coordination 1 requiredgG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)• or short-circuit protection of the auxiliary switch requiredgG: 125A (690V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/ mounting/ dimensions+/.180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surfacefastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height114 mmwidth55 mmdepth130 mmrequired spacing• with side-by-side mounting• with side-by-side mounting10 mm		•
- at 200/208 V rated value     20 hp       - at 220/230 V rated value     20 hp       - at 460/480 V rated value     50 hp       - at 575/600 V rated value     50 hp       contact rating of auxiliary contacts according to UL     A600 / P600       Short-circuit protection     460/400 V rated value       design of the fuse link     6       - with type of coordination 1 required     gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)       - with type of assignment 2 required     gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)       e for short-circuit protection of the auxiliary switch required     gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)       e for short-circuit protection of the auxiliary switch required     gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)       e for short-circuit protection of the auxiliary switch required     gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)       e for short-circuit protection of the auxiliary switch required     gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)       i for short-circuit protection of the auxiliary switch required     gG: 125A (690V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V, 80 kA)       i for short-circuit protection of the auxiliary switch required     screw and snap-on mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surf		
- at 220/230 V rated value20 hp- at 460/480 V rated value50 hp- at 575/600 V rated value50 hpcontact rating of auxiliary contacts according to ULA600 / P600Short-circuit protectiondesign of the fuse link- with type of coordination 1 requiredgG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)- with type of coordination 1 requiredgG: 125A (690V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 100A (415V, 80 kA)- with type of assignment 2 requiredgG: 10 A (500 V, 1 kA)Installation/ mounting/ dimensions+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface;fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height114 mmwidth55 mmdepth130 mmrequired spacing10 mm- forwards10 mm		20 hp
- at 460/480 V rated value50 hp- at 575/600 V rated value50 hpcontact rating of auxiliary contacts according to ULA600 / P600Short-circuit protection		
at 575/600 V rated value50 hpcontact rating of auxiliary contacts according to ULA600 / P600Short-circuit protectiong: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) - with type of coordination 1 requiredg: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) - with type of assignment 2 requiredg: 250 A (690 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415 V, 80 kA) (A)Installation/ mounting/ dimensionsg: 250 A (690 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415 V, 80 kA) (B)g: 10 A (500 V, 1 kA)Installation/ mounting dimensionst/-/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and 		
contact rating of auxiliary contacts according to UL       A600 / P600         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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (500 V, 1 kA)</li> </ul> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>fastening method</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>114 mm</li> <li>width</li> <li>55 mm</li> <li>depth</li> <li>mounting</li> <li>with side-by-side mounting</li> <li>forwards</li> <li>mounting</li> <li>upwards</li> <li>10 mm</li>		
Short-circuit protection         design of the fuse link         • for short-circuit protection of the main circuit         with type of coordination 1 required         gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)         with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         gG: 125A (690 V, 100 kA), aM: 63A (690V, 100 kA), BS88: 100A (415V,80kA)         • for short-circuit protection of the auxiliary switch required         gG: 10 A (500 V, 1 kA)         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 DIN rail according to DIN EN 60715         height       114 mm         width       55 mm         depth       130 mm         required spacing       • with side-by-side mounting         forwards       10 mm         upwards       10 mm		
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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)</li> <li>mouth type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> </ul> <li>Installation/ mounting/ dimensions         <ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>fastening method</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>114 mm</li> <li>width</li> <li>55 mm</li> <li>depth</li> <li>130 mm</li> <li>required spacing                  <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> </ul> </li> </ul></li>		
<ul> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)</li> <li>- with type of assignment 2 required</li> <li>gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface;</li> <li>fastening method</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>114 mm</li> <li>width</li> <li>55 mm</li> <li>depth</li> <li>i30 mm</li> <li>required spacing</li></ul></li></ul>		
- with type of coordination 1 requiredgG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)- with type of assignment 2 requiredgG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA) gG: 10 A (500 V, 1 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/mounting/dimensions+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting to DIN EN 60715height114 mmwidth55 mmdepth130 mm• with side-by-side mounting • with side-by-side mounting10 mm- upwards10 mm	-	
with type of assignment 2 requiredgG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/ mounting/ dimensions		
<ul> <li>for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>fastening method</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>114 mm</li> <li>width</li> <li>55 mm</li> <li>depth</li> <li>required spacing         <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> </ul> </li> </ul>	- with type of assignment 2 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 DIN rail according to DIN EN 60715         height       114 mm         width       55 mm         depth       130 mm         required spacing       • with side-by-side mounting         - forwards       10 mm         - upwards       10 mm		
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 DIN rail according to DIN EN 60715         height       114 mm         width       55 mm         depth       130 mm         required spacing       0 mm         - forwards       10 mm         - upwards       10 mm		
backward by +/- 22.5° on vertical mounting surface       fastening method     screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715       height     114 mm       width     55 mm       depth     130 mm       required spacing     - forwards       - forwards     10 mm       - upwards     10 mm		+/-180° rotation possible on vertical mounting surface: can be tilted forward and
height     114 mm       width     55 mm       depth     130 mm       required spacing     - forwards       - forwards     10 mm       - upwards     10 mm		
width     55 mm       depth     130 mm       required spacing     -       • with side-by-side mounting     -       - forwards     10 mm       - upwards     10 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
depth     130 mm       required spacing     10 mm       • with side-by-side mounting     10 mm       - forwards     10 mm       - upwards     10 mm	height	114 mm
required spacing       • with side-by-side mounting       — forwards       — upwards       10 mm       10 mm	width	55 mm
with side-by-side mounting     — forwards     upwards     10 mm     10 mm	depth	130 mm
forwards     10 mm       upwards     10 mm	required spacing	
— upwards 10 mm	with side-by-side mounting	
	— forwards	10 mm
— downwards 10 mm	— upwards	10 mm
	— downwards	10 mm

	— at the side	0 mm
- upwards     0 mm       - at the side     0 mm       - downwads     0 mm       - for vie parts     0 mm       - downwads     10 mm       - at the side     9 mm       Connectable conductor cross-sections     6 mannel contable       - for and no contable     2 x(1	<ul> <li>for grounded parts</li> </ul>	
	— forwards	10 mm
	— upwards	10 mm
• for live parts             •	— at the side	6 mm
- forwards     10 mm       - upwards     10 mm       - at the skde     6 mm       Connections? Translat     6 mm       Ype of electrical connection     screw-type terminals       • for main contral     screw-type terminals       • of or auxiliary and control circuit     screw-type terminals       • of auxiliary and control circuit     screw-type terminals       • of auxiliary contacts     Screw-type terminals       • of auxiliary contacts     Screw-type terminals       • of auxiliary contacts     2x (1 35 mm?) (x (1 50 mm?)       • for main contacts     2x (1 35 mm?) (x (1 50 mm?)       • for auxiliary contacts     2x (1 35 mm?)       • for auxiliary contacts     2x (1 35 mm?)       • for auxiliary contacts     0.5 2.5 mm?       • for auxiliary contacts     0.5 2.5 mm?       • for auxiliary contacts     2x (0.5 1.5 mm?), 2x (0.75 2.5 mm?)       • for auxiliary contacts     2x (0.5 1.5 mm?), 2x (0.75 2.5 mm?)       • for auxiliary contacts     2x (0.5 1.5 mm?), 2x (0.75 2.5 mm?)       • for auxiliary contacts     2x (0.5 1.5 mm?), 2x (0.75 2.5 mm?)       • for auxiliary contacts     2x (0.5 1.5 mm?), 2x (0.75 2.5 mm?)       • for auxiliary contacts     2x (0.5 1.5 mm?), 2x (0.75 2.5 mm?)       • for auxiliary contacts     2x (0.5 1.5 m	— downwards	10 mm
	<ul> <li>for live parts</li> </ul>	
- downards     0 mm       - at the side     6 mm       Contractions' Terminals     screw-type terminals       - for nail current circuit     screw-type terminals       - of or autility control idroutit     screw-type terminals       - of control conductor cross-sections     - of AVK or autility contacts       - of or AVK or autility contacts     Screw-type terminals       - of or autility contacts     2x (1 35 mm <sup>2</sup> ), tx (1 35 mm <sup>2</sup> )       - of AVK cables for main contacts     2x (1 25 mm <sup>2</sup> ), tx (1 35 mm <sup>2</sup> )       - of AVK cables for main contacts     2x (1 25 mm <sup>2</sup> ), tx (1 35 mm <sup>2</sup> )       - of autility contacts     35 mm <sup>2</sup> - of autility contacts     15 mm <sup>2</sup> , 2x (0.7 2.5 mm <sup>2</sup> )       - of autility contacts     15 mm <sup>2</sup> , 2x (0.7 2.5 mm <sup>2</sup> )       - of autility contacts     25 mm <sup>2</sup> - of autility contacts     15 mm <sup>2</sup> , 2x (0.7 2.5 mm <sup>2</sup> ) <t< td=""><td>— forwards</td><td>10 mm</td></t<>	— forwards	10 mm
	— upwards	10 mm
Connections/Terminals           type of dectrical connection           of or aniciny and control circuit           ascrew-type terminals           ascrew-type terminals     <	— downwards	10 mm
type of electrical connection         screw-type terminals           • for main current circuit         screw-type terminals           • at contactor for auxiliary contacts         Screw-type terminals           • of magnet coll         Screw-type terminals           • for main contacts	— at the side	6 mm
for main current circuit     is for auxiliary and contol circuit     is of auxiliary and contol circuit     screw-type terminals     screw-type terminals     is of magnet coll     is of auxiliary ontacts     is of auxiliary ontacts     is of AWG cables for main contacts     is of auxiliary contacts     if or auxiliary contacts     is of au	Connections/ Terminals	
for main current circuit     is for auxiliary and contol circuit     is of auxiliary and contol circuit     screw-type terminals     screw-type terminals     is of magnet coll     is of auxiliary ontacts     is of auxiliary ontacts     is of AWG cables for main contacts     is of auxiliary contacts     if or auxiliary contacts     is of au	type of electrical connection	
<ul> <li>for auxiliary and control orcuit</li> <li>ait contactor for auxiliary contacts</li> <li>of magnet coll</li> <li>Screw-type terminals</li> <li>of magnet coll</li> <li>Screw-type terminals</li> <li>(in main contacts)</li> <li>and or stranded with core end processing</li> <li>2x (1 35 mm<sup>2</sup>), 1x (1 50 mm<sup>2</sup>)</li> <li>for AWC cobles for main contacts</li> <li>finely stranded with core end processing</li> <li>(inely stranded with core end processing</li> <li>(in auxiliary contacts</li> <li>(in aux</li></ul>		screw-type terminals
• et contactor for auxiliary contacts     Screw-type terminals       • of magnet coll     Screw-type terminals       • of main contacts     Screw-type terminals       • of main contacts     2x (1 35 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )       • finely stranded with core end processing     2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )       • finely stranded with core end processing     1 35 mm <sup>2</sup> • finely stranded with core end processing     1 35 mm <sup>2</sup> • connectable conductor cross-section for auxiliary contacts     0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing     0.5 2.5 mm <sup>2</sup> • for auxiliary contacts     5 did or stranded       • for auxiliary contacts     2x (0 .5 1.5 mm <sup>2</sup> ), 2x (0 .75 2.5 mm <sup>2</sup> )       • for auxiliary contacts     2x (2 .5 1.5 mm <sup>2</sup> ), 2x (0 .75 2.5 mm <sup>2</sup> )       • for auxiliary contacts     2x (2 .5 1.5 mm <sup>2</sup> ), 2x (0 .75 2.5 mm <sup>2</sup> )       • for main contacts     18 1       • for main contacts     18 1       • for main contacts     20 14       Statey related data     20 14       Statey related switching OFF     Yes       switch life maximum     20 a       • unitor wording to ISC 13849-1     3       • with holy demand rate according to SN 13120     40 %       • with holy demand rate according to SN 13120     100 0000       f		
• of magnet coll       Screw-type terminals         type of connectable conductor cross-sections	-	
type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>for main contacts</li> <li>for AWC cables for main contacts</li> <li>for AWC cables for main contacts</li> <li>for AWC cables for main contacts</li> <li>for available conductor cross-section for anal contacts</li> <li>finely standed with core end processing</li> <li>i 35 mm<sup>2</sup></li> </ul> connectable conductor cross-section for auxiliary contacts <ul> <li>finely standed with core end processing</li> <li>i 35 mm<sup>2</sup></li> <li>consectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>of auxiliary contacts</li> <li>and or stranded</li> <li>for auxiliary contacts</li> <li>and or stranded</li> <li>consectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>and or stranded</li> <li>consectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>and or stranded</li> <li>consectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>and or stranded</li> <li>consectable conductor cross-section according to EC 60947-5-1</li> <li>solido for stranded stranded</li> <li>and contacts</li> <li>and the safety-related data</li> <li>proportion did agerous failures</li> <li>with lwo demand rate according to EC 60947-5-1</li> <li>No</li> <li>solitable for auxiliary contacts</li> <li>andify envine aperatr</li></ul>	-	
<ul> <li>for main contacts         <ul> <li>solid or standed</li> <li>finely standed with core end processing</li> <li>for AWG cables for main contacts</li> <li>for AWG cables for main contacts</li> <li>finely standed with core end processing</li> <li>for availary contacts</li> <li>for availary contacts</li></ul></li></ul>		Sciew-type terminals
		$2x (4 - 25 mm^2) 4x (4 - 50 mm^2)$
• for AWG cables for main contacts     2x (182), 1x (181)  connectable conductor cross-section for main contacts     • finely stranded with core end processing     0.52.5 mm <sup>3</sup> connectable conductor cross-sections     • for auxiliary contacts     • solid or stranded     0.52.5 mm <sup>3</sup> type of connectable conductor cross-sections     • for auxiliary contacts     - solid or stranded     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - finely stranded with core end processing     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - for AWG cables for auxiliary contacts     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>3</sup> )     - for AWG cables for auxiliary contacts     181     - for auxiliary contacts     2014     Safety forestedy function     - with rot material secording to IEC 60947-5-1     No     - suitability for use safety-related switching OFF     Yes     service iffe		
connectable conductor cross-section for main contacts     1 35 mm <sup>2</sup> connectable conductor cross-section for auxiliary contacts     0.5 2.5 mm <sup>2</sup> solid or stranded     0.5 2.5 mm <sup>2</sup> type of connectable conductor cross-sections     0.5 2.5 mm <sup>2</sup> of connectable conductor cross-sections     0.5 2.5 mm <sup>2</sup> vert of connectable conductor cross-sections     0.5 2.5 mm <sup>2</sup> of connectable conductor cross-sections     2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )       e for AVMG cables for auxiliary contacts     2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )       2x (20 16), 2x (18 14)     AWG number as coded connectable conductor cross section       e for AVMG cables for auxiliary contacts     20 14       Safety related data     20 14       product function     Yes       e usitable for safety function     Yes       suitable for safety function     20 a       est wear-related service life necessary     Yes       proportion of dangerous failures     40 %       e with high demand rate according to SN 31920     1000 000       failure rate [FT] with low demand rate according to SN 31920     3       180 13849<		
• finely stranded with core end processing       1 35 mm <sup>2</sup> connectable conductor cross-sections       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> type of connectable conductor cross-sections       0.5 2.5 mm <sup>3</sup> • for auxiliary contacts       2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )         - finely stranded with core end processing       2x (0.5 15 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )         • for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       18 1         • for auxiliary contacts       20 14         Safety related data       20 14         safety related data       20 a         test wear-related switching OFF       Yes         subtability for use safety-related switching OFF       Yes         proportion of dangerous failures       40 %         • with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       73 %         Safety device type according to ISO 13849       40 %         device type according to ISO 13849.1       1000 000         failure rate [FT] with low demand rate according to SN 31920       73 %         ISO 13849       device type according to ISO 13849.2		2x (18 2), 1x (18 1)
connectable conductor cross-section for auxillary contacts       0.5 2.5 mm³         • Solid or stranded       0.5 2.5 mm³         • Inley stranded with core end processing       0.5 2.5 mm³         (type of connectable conductor cross-sections       0.5 2.5 mm³         • for auxillary contacts       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³)         fold or stranded       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³)         fold or stranded       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³)         fold or stranded       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³)         fold or stranded       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³)         fold or stranded       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³)         fold or stranded       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³)         for auxiliary contacts       20 14         AWG number as coded connectable conductor cross section       90 14         Stafety rolated data       20 14         Product function       Yes		
<ul> <li>solid or stranded</li> <li>0.5 2.5 mm<sup>2</sup></li> <li>2.5 m<sup>2</sup></li> <li>2.5 m<sup>2</sup></li> <li>2.5 m<sup>2</sup></li> <li>2.5 m<sup>2</sup></li> <li>2.5 m<sup>2</sup></li> <li>2.5 mm<sup>2</sup></li> <li>2.5 m<sup>2</sup></li> <li>2.5 mm<sup>2</sup></li> <li>2.5 m<sup>2</sup></li> <li>2.5 mm<sup>2</sup></li> <li>2.5 mm<sup>2</sup><td><ul> <li>finely stranded with core end processing</li> </ul></td><td>1 35 mm²</td></li></ul>	<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²
• (fnely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       •         • for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • of auxiliary contacts       2x (2.5 1.5 mm²), 2x (0.75 2.5 mm²)         • of AWG cables for auxiliary contacts       2x (2.5 1.5 mm²), 2x (0.75 2.5 mm²)         • of auxiliary contacts       2x (2.5 1.5 mm²), 2x (0.75 2.5 mm²)         • of auxiliary contacts       2x (2.5 1.5 mm²), 2x (0.75 2.5 mm²)         • of auxiliary contacts       20 14         Safety related data       20 14         Product function       Yes         • or auxiliary contacts       20 14         Safety related data       Yes         product function       Yes         • suitable for safety function       Yes         service life maximum       20 a         test war-related service life necessary       Yes         proportion of dangerous failures       40 %         • with high demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       1000 000         failure rate [FIT] with low demand rate according to SN 31920       1000 000         failure rate if FIT with low demand rate acccording to SN 31920       3	connectable conductor cross-section for auxiliary contacts	
type of connectable conductor cross-sections         • for auxiliary contacts	<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>for auxiliary contacts</li> <li>- solid or stranded</li> <li>2x (0.51.5 mm<sup>2</sup>), 2x (0.752.5 mm<sup>2</sup>)</li> <li>for AVXC cables for auxiliary contacts</li> <li>2x (0.51.5 mm<sup>2</sup>), 2x (0.752.5 mm<sup>2</sup>)</li> <li>2x (1.752.5 m<sup>2</sup>)</li> <li>2x (1.752.5 m<sup>2</sup>)</li> <li>2x (1.752.5 m<sup>2</sup>)</li> <li>2x (1.752.5 m</li></ul>	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
solid or stranded       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm²)         finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section	type of connectable conductor cross-sections	
finely stranded with core end processing       2x (0.5 1.5 mm³), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       •         • for main contacts       18 1         • for auxiliary contacts       20 14         Safety related data       •         product function       •         • mirror contact according to IEC 60947-4-1       Yes         • suitability for use safety-related switching OFF       Yes         suitability for use safety-related switching OFF       Yes         suitability for use safety-related switching OFF       Yes         • with high demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1000 000         failure rate [FIT] with low demand rate according to SN 31920       100 FIT         ISO 13849       device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-1       3       3         overdimensioning to ISO 13849-1       3       3         device type according to ISO 13849-2 necessary       Yes         IEC 61508       *       *         safety device	<ul> <li>for auxiliary contacts</li> </ul>	
• for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       18 1         • for main contacts       18 1         • for auxiliary contacts       20 14         Safety related data       7000000000000000000000000000000000000	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
AWG number as coded connectable conductor cross section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>2014</li> </ul> Safety related data <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>yes</li> <li>suitable for safety function</li> <li>yes</li> <li>suitable for safety function</li> <li>yes</li> <li>suitability for use safety-related switching OFF</li> <li>Yes</li> <li>suitability for use safety call the necessary</li> <li>Yes</li> <li>suitability for use safety function</li> <li>Yes</li> <li>suitability for use safety function</li> <li>Yes</li> <li>suitability for use safety function (SN 31920)</li> <li>A0 %</li> <li>with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for out and rate according to SN 31920</li> <li>for out and rate according to SN 31920</li> <li>for O 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>Yes</li> <li>IEC 61508</li> <li>safety device type according to ISO 13849-2 necessary</li> <li>Yes</li> <li>IEC 61508</li> <li>safety device type according to IEC 60529</li> <li>for vertical con</li></ul>	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
section       18 1         • for main contacts       20 14         Safety related data       -         product function       -         • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947-5-1       No         • suitable for safety function       Yes         suitability for use safety-related switching OFF       Yes         service life maximum       20 a         test wear-related service life necessary       Yes         proportion of dangerous failures       -         • with low demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1000 000         failure rate [FIT] with low demand rate according to SN 31920       1000 FIT         31920       ISO 13849       -         device type according to ISO 13849-1       3         overdimensioning according to IEC 61508-2       Type A         Electrical Safety       -         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20 <t< td=""><td><ul> <li>for AWG cables for auxiliary contacts</li> </ul></td><td>2x (20 16), 2x (18 14)</td></t<>	<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
• for auxiliary contacts       20 14         Safety related data		
Safety related data         product function         • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947-5-1       No         • suitable for safety function       Yes         suitability for use safety-related switching OFF       Yes         service life maximum       20 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         failure rate [FIT] with low demand rate according to SN 31920       1000 FIT         ISO 13849       device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-1       3       overdimensioning according to ISO 13849-2 necessary         ISO 13849       generational solution to IEC 61508-2       Type A         Electrical Safety       protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Ip20       finger-safe, for vertical contact from the front         Approvals Certificates       second solution of the front according to IEC 60529       second solution the	for main contacts	18 1
product function       • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947-5-1       No         • suitable for safety function       Yes         suitability for use safety-related switching OFF       Yes         service life maximum       20 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         failure rate [FIT] with low demand rate according to SN 31920       1000 FIT         31920       ISO 13849         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2       Type A         Electrical Safety       protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       Approvals Certificates       Approvals Certificates	<ul> <li>for auxiliary contacts</li> </ul>	20 14
product function       • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947-5-1       No         • suitable for safety function       Yes         suitability for use safety-related switching OFF       Yes         service life maximum       20 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         failure rate [FIT] with low demand rate according to SN 31920       1000 FIT         31920       ISO 13849         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2       Type A         Electrical Safety       protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       Approvals Certificates       Approvals Certificates	Safety related data	
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>yes</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>yes</li> <li>suitability for use safety-related switching OFF</li> <li>Yes</li> <li>service life maximum</li> <li>20 a</li> <li>test wear-related service life necessary</li> <li>Yes</li> <li>proportion of dangerous failures</li> <li>with high demand rate according to SN 31920</li> <li>40 %</li> <li>with high demand rate according to SN 31920</li> <li>To 000 000</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-2 necessary</li> <li>Yes</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Type A</li> <li>Electrical Safety</li> <li>protection on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> </ul>		
• positively driven operation according to IEC 60947-5-1         No           • suitable for safety function         Yes           suitability for use safety-related switching OFF         Yes           service life maximum         20 a           test wear-related service life necessary         Yes           proportion of dangerous failures         •           • with low demand rate according to SN 31920         40 %           • with high demand rate according to SN 31920         73 %           B10 value with high demand rate according to SN 31920         1 000 000           failure rate [FIT] with low demand rate according to SN 31920         1 000 000           failure rate [FIT] with low demand rate according to SN 31920         1 000 000           failure rate [FIT] with low demand rate according to SN 31920         1 000 FIT           SISO 13849         device type according to ISO 13849-1         3           overdimensioning according to ISO 13849-2 necessary         Yes           IEC 61508         safety device type according to IEC 61508-2         Type A           Electrical Safety         protection class IP on the front according to IEC 60529         IP20           touch protection on the front according to IEC 60529         finger-safe, for vertical contact from the front           Approvals Certificates         IP20         IP20 <td>-</td> <td>Yes</td>	-	Yes
<ul> <li>suitable for safety function</li> <li>Yes</li> <li>suitability for use safety-related switching OFF</li> <li>Yes</li> <li>service life maximum</li> <li>20 a</li> <li>test wear-related service life necessary</li> <li>Yes</li> <li>proportion of dangerous failures         <ul> <li>with low demand rate according to SN 31920</li> <li>40 %</li> <li>with high demand rate according to SN 31920</li> <li>73 %</li> <li>B10 value with high demand rate according to SN 31920</li> <li>1000 000</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>100 FIT</li> <li>safety device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>Yes</li> </ul> </li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Type A</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul> <li>Approvals Certificates</li>	-	
suitability for use safety-related switching OFF       Yes         service life maximum       20 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         failure rate [FIT] with low demand rate according to SN 31920       100 FIT         31920       ISO 13849         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2         safety device type according to IEC 61508-2       Type A         Electrical Safety       protection class IP on the front according to IEC 60529         protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front According to IEC 60529         Approvals Certificates       Finger-safe, for vertical contact from the front According to IEC 60529		
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test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         failure rate [FIT] with low demand rate according to SN 31920       1 000 FIT         31920       100 FIT         ISO 13849       device type according to ISO 13849-1         device type according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2         safety device type according to IEC 61508-2       Type A         Electrical Safety       IP20         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       40 FIC		
proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         failure rate [FIT] with low demand rate according to SN 31920       1 000 FIT         31920       100 FIT         ISO 13849       40 %         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       5364         safety device type according to IEC 61508-2       Type A         Electrical Safety       1P20         protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       529		
with low demand rate according to SN 31920     with high demand rate according to SN 31920     S	· · · · · · · · · · · · · · · · · · ·	
with high demand rate according to SN 31920     73 % B10 value with high demand rate according to SN 31920     1 000 000 failure rate [FIT] with low demand rate according to SN     100 FIT     31920     ISO 13849     device type according to ISO 13849-1     3     overdimensioning according to ISO 13849-2 necessary     Yes     IEC 61508     safety device type according to IEC 61508-2     Type A Electrical Safety     protection class IP on the front according to IEC 60529     IP20     touch protection on the front according to IEC 60529     IP20 Approvals Certificates		
B10 value with high demand rate according to SN 31920       1 000 000         failure rate [FIT] with low demand rate according to SN       100 FIT         31920       100 FIT         ISO 13849       3         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       3         safety device type according to IEC 61508-2       Type A         Electrical Safety       1P20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       4	C C	
failure rate [FIT] with low demand rate according to SN       100 FIT         31920       ISO 13849         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508		
31920         ISO 13849         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Yes         safety device type according to IEC 61508-2       Type A         Electrical Safety       IP20         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       IP20		
device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Yes         safety device type according to IEC 61508-2       Type A         Electrical Safety       Protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       Approvals Certificates	31920	100 FIT
overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Type A         safety device type according to IEC 61508-2       Type A         Electrical Safety       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       IP20		
IEC 61508 safety device type according to IEC 61508-2 Electrical Safety protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Approvals Certificates		
safety device type according to IEC 61508-2       Type A         Electrical Safety       rotection class IP on the front according to IEC 60529         protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       IP20		Yes
Electrical Safety       protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       Approvals Certificates	IEC 61508	
protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       Finger-safe, for vertical contact from the front	safety device type according to IEC 61508-2	Туре А
touch protection on the front according to IEC 60529         finger-safe, for vertical contact from the front           Approvals Certificates         Finger-safe, for vertical contact from the front	Electrical Safety	
Approvals Certificates	protection class IP on the front according to IEC 60529	IP20
	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
General Product Approval	Approvals Certificates	
	General Product Approval	

() CCC	<u>Confirmation</u>	UK CA	CE EG-Konf.		<u>Miscellaneous</u>
General Product Appr	oval	EMV	Functional Saftey	Test Certificates	
KC	EHC	RCM	<u>Type Examination Cer-</u> tificate	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		PRS	RINA	KMRS
other		Railway	Dangerous goods	Environment	
<u>Confirmation</u>	<u>Confirmation</u>	Special Test Certific- ate	Transport Information	EPD	Environmental Con- firmations
Further information Information on the pac https://support.industry.	ckaging	view/100212275			
Information- and Dow					

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1NF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1NF30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NF30

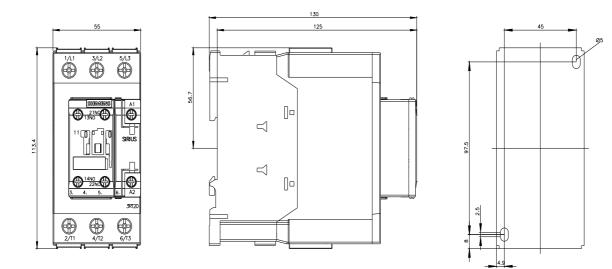
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

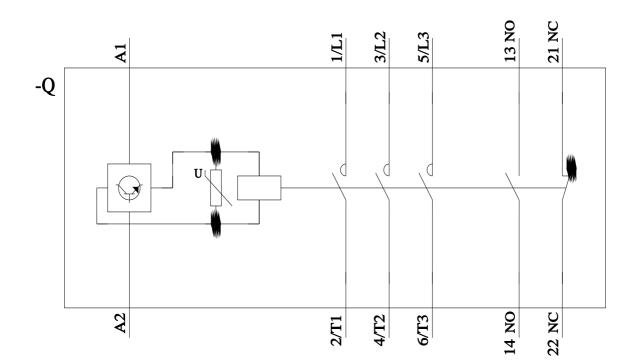
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1NF30&lang=en

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NF30/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NF30&objecttype=14&gridview=view1





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