SIEMENS

Data sheet 3RT2016-1HB41



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, auxiliary contacts: 1 NO, screw terminal, size: S00, suitable for PLC outputs, not expandable with auxiliary switch

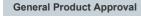
| product type designation Coupling contactor Size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of working or cut with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value surge voltage resistance • of main circuit rated value • of auxiliary circuit with degree of pollution 3 rated value existed to a contract of the contract of | product brand name | SIRIUS |
|--|---|----------------------------|
| Size of contactor | product designation | Coupling contactor |
| size of contactor product extension • function module for communication • function module for communication • auxiliary switch No power loss [W] for rated value of the current • at AC in hot operating state eprole • at AC in hot operating state per pole • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit value • of main circuit rated value • of auxiliary circuit rated value • of oraline contacts according to EN 6947-1 shock resistance at rectangular impulse • at DC • at DC • at DC shock resistance with sine pulse • at DC shock resistance with sine pulse • at DC go (3,7g / 5 ms, 4,2g / 10 ms) **To contactor typical • of contactor typical • of contactor typical 30 000 000 reference code according to EC 81346-2 Q Substance Prohibitance (Date) Anbient conditions installation altitude at height above sea level maximum • during operation • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 3 number of poles for main current circuit 3 number of NO contacts for main contacts | product type designation | 3RT2 |
| product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state 0.9 W • at AC in hot operating state per pole • without load current share typical 2.8 W insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of anin circuit rated value • of auxiliary circuit state value • of auxiliary circuit face value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degr | General technical data | |
| • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit trated value • of auxiliary circuit rated value • of contactor typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 1000 7000 Ambient conditions installation altitude a height above sea level maximum 2000 m ambient temperature • during operation • during storage • of contactor typical relative humidity minimum relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 3 number of poles for main current circuit 3 | size of contactor | S00 |
| auxiliary switch power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole without load current share typical awilthout load current share typical insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit r | product extension | |
| power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of wording to explain the pollution of the control of the c | function module for communication | No |
| at AC in hot operating state at AC in hot operating state per pole without load current share typical insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value of main circuit rated value of auxiliary c | auxiliary switch | No |
| at AC in hot operating state per pole without load current share typical insulation voltage of main circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit rated value of main circuit rated value of auxillary circuit sate value of auxillary circuit sate value of auxillary circuit value at height above sea level maximum relative humidity minimum of poles for main current circuit auxillary circuit value of auxil | power loss [W] for rated value of the current | |
| insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit several value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit value of auxiliary circ | at AC in hot operating state | 0.9 W |
| insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at DC • at DC shock resistance with sine pulse • at DC mechanical service life (operating cycles) • of contactor typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity minimum 10 % relative fundity minimum 10 % | at AC in hot operating state per pole | 0.3 W |
| of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of kV of auxiliary circuit with degree of pollution 5 relative humidity minimum of No contacts for main current circuit number of NO contacts for main current circuit of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV of a | without load current share typical | 2.8 W |
| of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot at DC of at DC of according to EN 60947-1 shock resistance with sine pulse ot at DC of contactor with sine pulse of contactor typical of c | insulation voltage | |
| surge voltage resistance of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at DC of any /5 ms, 4,2g / 10 ms shock resistance with sine pulse of at DC of any /5 ms, 6,6g / 10 ms mechanical service life (operating cycles) of contactor typical of contactor t | of main circuit with degree of pollution 3 rated value | 690 V |
| of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value ad NV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse oat DC of,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse oat DC of,7g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) of contactor typical of contactor typical of contactor typical od 2000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage relative humidity minimum relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of NO contacts for main current circuit of auximum at the conditions and the circuit of auximum at the conditions and the circuit of NO contacts for main current circuit of NO contacts for main contacts of kV double volume at the conditions and the conditions a | of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse o at DC shock resistance with sine pulse o at DC shock resistance with sine pulse o at DC inchange of some of | surge voltage resistance | |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC nechanical service life (operating cycles) • of contactor typical of contactor typical substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of NO contacts for main current circuit number of NO contacts for main contacts 6,7g / 5 ms, 4,2g / 10 ms 6,7g / 4 ms 6,7g | of main circuit rated value | 6 kV |
| shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC 10,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse • at DC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) • of contactor typical 30 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 6,7g / 5 ms, 4,2g / 10 ms 6,7g / 5 ms, 6,6g / 10 ms 10,5g / 5 ms, 6,6g / 10 ms 10,0g / 10 ms | of auxiliary circuit rated value | 6 kV |
| at DC shock resistance with sine pulse at DC 10,5g / 5 ms, 4,2g / 10 ms mechanical service life (operating cycles) of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation during storage relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 10,5g / 5 ms, 4,2g / 10 ms 10,5g / 5 ms, 6,6g / 10 ms 10,5g / 6 ms 10,0g / | | 400 V |
| shock resistance with sine pulse • at DC mechanical service life (operating cycles) • of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 3 0 000 000 10,5g / 5 ms, 6,6g / 10 ms 10,5g / 5 ms, | shock resistance at rectangular impulse | |
| ● at DC mechanical service life (operating cycles) ● of contactor typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage relative humidity minimum relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 3 0 000 000 0 0 0 0 0 0 0 0 0 0 | • at DC | 6,7g / 5 ms, 4,2g / 10 ms |
| mechanical service life (operating cycles) • of contactor typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 3 0 000 000 10/01/2009 Ambient Conditions 2 000 m 2 000 m 2 000 m 2 000 m 3 000 000 1 0/01/2009 1 0/ | shock resistance with sine pulse | |
| of contactor typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of Poles for main current circuit number of NO contacts for main contacts 3 0 000 000 Q Q 200 10/01/2009 Ambient conditions 2 000 m 2 000 m 2 000 m 3 000 000 4 000 m 5 000 m 6 000 m 6 000 m 6 000 m 6 000 m 7 000 m 8 000 m 8 000 m 9 0 | • at DC | 10,5g / 5 ms, 6,6g / 10 ms |
| reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 10/01/2009 2 000 m 3 0 °C -25 +60 °C -25 +80 °C 95 % 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | mechanical service life (operating cycles) | |
| Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 3 | of contactor typical | 30 000 000 |
| Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 3 | reference code according to IEC 81346-2 | Q |
| installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 3 | Substance Prohibitance (Date) | 10/01/2009 |
| ambient temperature • during operation • during storage • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 3 | Ambient conditions | |
| during operation during storage telative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts | installation altitude at height above sea level maximum | 2 000 m |
| ● during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts -55 +80 °C 95 % 3 3 | ambient temperature | |
| relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 3 | during operation | -25 +60 °C |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 3 | during storage | -55 +80 °C |
| maximum Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 3 | relative humidity minimum | 10 % |
| number of poles for main current circuit 3 number of NO contacts for main contacts 3 | | 95 % |
| number of NO contacts for main contacts 3 | Main circuit | |
| | number of poles for main current circuit | 3 |
| operating voltage | number of NO contacts for main contacts | 3 |
| | operating voltage | |
| • at AC-3 rated value maximum 690 V | at AC-3 rated value maximum | 690 V |

| at AC-3e rated value maximum | 690 V |
|--|--|
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 22 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value | 22 A |
| — up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value | 20 A |
| • at AC-3 | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| • at AC-3e | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| at AC-4 at 400 V rated value | 8.5 A |
| • at AC-5a up to 690 V rated value | 19.4 A |
| • at AC-5b up to 400 V rated value | 7.4 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 5.3 A |
| — up to 400 V for current peak value n=20 rated value | 5.3 A |
| — up to 500 V for current peak value n=20 rated value | 5.3 A |
| — up to 690 V for current peak value n=20 rated value | 5 A |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 3.5 A |
| up to 400 V for current peak value n=30 rated value | 3.5 A |
| up to 500 V for current peak value n=30 rated value | 3.6 A |
| — up to 690 V for current peak value n=30 rated value | 3.3 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 4 mm² |
| operational current for approx. 200000 operating cycles at | |
| AC-4 • at 400 V rated value | 4.1 A |
| at 690 V rated value | 3.3 A |
| | 0.071 |
| operational current | |
| operational current • at 1 current path at DC-1 | |
| • at 1 current path at DC-1 | 20 A |
| • at 1 current path at DC-1 — at 24 V rated value | 20 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value | 20 A |
| at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value | 20 A 2.1 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value | 20 A 2.1 A 0.8 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value | 20 A 2.1 A 0.8 A 0.6 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value | 20 A 2.1 A 0.8 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 | 20 A 2.1 A 0.8 A 0.6 A 0.6 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 60 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 110 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 220 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A |
| at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 120 V rated value — at 440 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A |
| at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 120 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value with 3 current paths in series at DC-1 | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A |
| at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 24 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 60 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 450 V rated value at 600 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 24 V rated value at 10 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 220 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 440 V rated value at 600 V rated value at 24 V rated value at 440 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 20 A 20 A 20 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 60 V rated value at 24 V rated value at 440 V rated value at 600 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 24 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 40 V rated value at 40 V rated value at 40 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 A 28 A 29 A 29 A 20 A 20 A 20 A 20 A 21 A 21 A 22 A 23 A 24 A 25 A 26 A 27 A 28 A 29 A 20 A 20 A 20 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 A 28 A 28 A 29 A 29 A 20 A 20 A 20 A 20 A 20 A 20 A |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 600 V rated value at 440 V rated value at 600 V rated value at 1 current path at DC-3 at DC-5 at 24 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2 |
| at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 24 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 40 V rated value at 40 V rated value at 40 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value | 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 A 28 A 29 A 29 A 20 A 20 A 20 A 20 A 21 A 21 A 22 A 23 A 24 A 25 A 26 A 27 A 28 A 29 A 20 A 20 A 20 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 A 28 A 28 A 29 A 29 A 20 A 20 A 20 A 20 A 20 A 20 A |

| ** with 2 current paths in series at DC-3 at DC-5 ** at 80 V rided value | | |
|--|---|---|
| | with 2 current paths in series at DC-3 at DC-5 | |
| | | |
| with 3 current paths in series at DC-3 at DC-5 | | |
| | — at 110 V rated value | 0.35 A |
| | • | |
| | — at 24 V rated value | 20 A |
| | — at 60 V rated value | 20 A |
| | — at 110 V rated value | 20 A |
| | — at 220 V rated value | 1.5 A |
| A AC-3 | — at 440 V rated value | 0.2 A |
| - alt 230 V rated value | — at 600 V rated value | 0.2 A |
| | operating power | |
| | • at AC-3 | |
| at 500 V rated value at 690 V rated value at 690 V rated value at 600 V rated value at 230 V rated value at 230 V rated value at 500 V rated value 20 rated | — at 230 V rated value | 2.2 kW |
| at AC-3e at AC-3e at AC-3e at 230 V rated value at AC-3e at 230 V rated value at 22 kW at 4 kW because of 4 kW at 4 kW at 4 kW at 4 kW at 690 V rated value because of 5,5 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 2 kW because of 6 kW at 690 V rated value 2 kW because of 6 kW at 690 V rated value 4 kW because of 6 kW at 6 kW at 690 V rated value 4 kW because of 6 kW at 7 kW | — at 400 V rated value | 4 kW |
| at AC-3e at 200 V rated value at 800 V rated value at 800 V rated value 4 kW 5,5 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 2 kW at 800 V rated value 2 kW at 800 V rated value 2 kW at 800 V rated value 2 kW 3 kW 9 up to 400 V for current peak value n=20 rated value 4 up to 500 V for current peak value n=20 rated value 9 up to 400 V for current peak value n=20 rated value 9 up to 400 V for current peak value n=20 rated value 9 up to 500 V for current peak value n=20 rated value 9 up to 500 V for current peak value n=30 rated value 9 up to 400 V for current peak value n=30 rated value 9 up to 400 V for current peak value n=30 rated value 9 up to 400 V for current peak value n=30 rated value 9 up to 400 V for current peak value n=30 rated value 9 up to 500 V for current peak value n=30 rated value 9 up to 500 V for current peak value n=30 rated value 1,3 kVA 2,4 kVA 3,4 kVA 4,4 kVA 4,4 kVA 4,4 kVA 4,5 kVA 4,5 kVA 4,6 kVA 4,7 kVA 4,7 kVA 4,8 kVA 4,8 kVA 4,9 to 5,9 kVA 4,8 kVA 4,9 to 5,9 kVA 4,9 to 6,0 kVA 4,0 kV | — at 500 V rated value | 4 kW |
| - at 230 V rated value - at 400 V rated value - 4 kW - 4 kW - 4 kW - 5.5 kW - 5.5 kW - 5.5 kW - 6.5 kW | — at 690 V rated value | 5.5 kW |
| | • at AC-3e | |
| - at 500 V rated value - at 690 V rated value operating power for approx. 200000 operating cycles at AC- 4 at 400 V rated value • at 690 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 3 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maxi | — at 230 V rated value | 2.2 kW |
| operating power for approx. 200000 operating cycles at AC-4 * at 400 V rated value 2 kW * at 690 V rated value 2.5 kW operating apparent power at AC-6a * up to 230 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 230 V for current peak value n=20 rated value * up to 200 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current maximum * limited to 10 s switching at zero current maximum * limited to 10 s switching at zero current maximum * limited to 10 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 s switching at zero current maximum * limited to 50 | — at 400 V rated value | 4 kW |
| operating power for approx. 200000 operating cycles at AC-4 * at 400 V rated value * at 690 V rated value * 2 kW * at 690 V rated value * up to 230 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 560 V for current peak value n=20 rated value * up to 680 V for current peak value n=20 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * up to 600 V for current peak value n=30 rated value * limited to 1 s switching at zero current maximum * limited to 3 s switching at zero current maximum * limited to 30 s switching at zero current maximum * limited to 30 s switching at zero current maximum * limited to 60 s switching at zero current maximum * at DC * operating frequency * at DC * at DC * operating frequency * at AC-1 maximum * at AC-2 maximum * at AC-3 maximum * at AC-4 maximum * at AC-5 maximum * at AC-6 maximum * at AC-7 maxi | — at 500 V rated value | 4 kW |
| at 400 V rated value at 690 V rated value 2.5 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value sup to 230 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 500 V for current peak value n | — at 690 V rated value | 5.5 kW |
| * at 400 V rated value * at 690 V rated value * 2.5 kW • at 690 V rated value * 2.5 kW • up to 230 V for current peak value n=20 rated value * up to 400 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * 4.6 kWA • up to 690 V for current peak value n=20 rated value * 5.9 kWA operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value * 5.9 kWA operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value * 2.4 kWA • up to 500 V for current peak value n=30 rated value * 2.4 kWA • up to 500 V for current peak value n=30 rated value * 3.1 kWA • up to 500 V for current peak value n=30 rated value * 3.1 kWA • up to 500 V for current peak value n=30 rated value * 4.6 kWA short-time withstand current in cold operating state up to 40°C • ilmited to 1 s switching at zero current maximum * 155 A; Use minimum cross-section acc. to AC-1 rated value * 86 A; Use minimum cross-section acc. to AC-1 rated value * 86 A; Use minimum cross-section acc. to AC-1 rated value * 86 A; Use minimum cross-section acc. to AC-1 rated value * 86 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum cross-section acc. to AC-1 rated value * 66 A; Use minimum c | | |
| e at 690 V rated value operating apparent power at AC-6a u p to 230 V for current peak value n=20 rated value u p to 400 V for current peak value n=20 rated value u p to 590 V for current peak value n=20 rated value u p to 590 V for current peak value n=20 rated value u p to 590 V for current peak value n=30 rated value operating apparent power at AC-6a u p to 230 V for current peak value n=30 rated value u p to 400 V for current peak value n=30 rated value u p to 200 V for current peak value n=30 rated value u p to 590 V for current peak value n=30 rated value u p to 590 V for current peak value n=30 rated value u p to 590 V for current peak value n=30 rated value thought the form of the fo | | |
| operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited | | |
| • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • at AC-1 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum | | 2.5 kW |
| • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • with time of the switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to | | |
| up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value poerating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value thinked to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 50 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero cur | · | |
| • up to 690 V for current peak value n=20 rated value operating apparent power at AC-8a • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • at DC • at DC • at DC • at AC-1 rated value • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • | | |
| operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value **Short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • at DC • at DC • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coll at DC • initial value • full-scale value closing power of magnet coll at DC 2.8 W holding power of magnet coll at DC 2.8 W | up to 500 V for current peak value n=20 rated value | 4.6 kVA |
| up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 590 V for current peak value n=30 rated value up to 590 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C il imited to 1 s switching at zero current maximum il imited to 5 s switching at zero current maximum il imited to 30 s switching at zero current maximum il imited to 30 s switching at zero current maximum il imited to 30 s switching at zero current maximum il imited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum folad switching frequency at AC-1 maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum total AC-3 maximum at AC-3 maximum total AC-3 maximum at AC-3 maximum total AC-4 maximum total AC-3 maximum tota | up to 690 V for current peak value n=20 rated value | 5.9 kVA |
| up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 75 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 75 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h operating frequency at AC-1 maximum 10 000 1/h at AC-3 maximum 750 1/h at AC-3 maximum 750 1/h at AC-3 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value 1,25 closing power of magnet coil at DC 2,8 W holding power of magnet coil at DC 2,8 W | operating apparent power at AC-6a | |
| up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum 250 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC losing power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W | up to 230 V for current peak value n=30 rated value | 1.3 kVA |
| up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 80 s switching at zero current maximum limited to 80 s switching at zero current maximum state DC limited to 80 s switching at zero current maximum no-load switching frequency at DC 10 000 1/h operating frequency at AC-1 maximum 1000 1/h at AC-2 maximum 250 1/h at AC-3 maximum 750 1/h at AC-3 e maximum 250 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value 2.8 W holding power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W | up to 400 V for current peak value n=30 rated value | 2.4 kVA |
| short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • at DC • at DC • at DC • at AC-1 rated value • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value • perating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.25 closing power of magnet coil at DC • holding power of magnet coil at DC • lolding power of magnet coil at DC | up to 500 V for current peak value n=30 rated value | 3.1 kVA |
| Ilmited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value | · | 4 kVA |
| Ilmited to 1 s switching at zero current maximum Ilmited to 5 s switching at zero current maximum Ilmited to 5 s switching at zero current maximum Ilmited to 10 s switching at zero current maximum Ilmited to 30 s switching at zero current maximum Ilmited to 30 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Inoload switching frequency Ilmited to 60 s switching at zero current maximum Inoload switching frequency Ilmited to 60 s switching at zero current maximum Inoload switching frequency Ilmited to 60 s switching at zero current maximum Inoload switching frequency Ilmited to 60 s switching at zero current maximum Inoload switching frequency Ilmited to 60 s switching at zero current maximum Inoload switching frequency Ilmited to 60 s switching at zero current maximum Inoload switching frequency Ilmited to 60 s switching at zero current maximum Inoload switching frequency Ilmited to 60 s switching at zero current maximum Inoload switching frequency Inoload switching at zero current maximum Inoload switching at zero current maximum Inoload switching at zero current maximum Inoload switching frequency Inoload switching at zero current maximum Inoload switching at zero current wature Inoload switching at zero current wature Inoload switching at zero current watu | | |
| Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Inoload switching frequency Ilimited to 60 s switching at zero current maximum Inoload switching frequency Ilimited to 60 s switching at zero current maximum Inoload switching acc. to AC-1 rated value Inoload switching at zero current maximum Inoload switching acc. to AC-1 rated value Inoload switch | | 155 A: Use minimum cross-section acc. to AC-1 rated value |
| Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ino-load switching frequency Ilimited to 60 s switching at zero current maximum Ino-load switching frequency Ilimited to 60 s switching at zero current maximum Individual to 66 A; Use minimum cross-section acc. to AC-1 rated value Individual | - | |
| Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching frequency Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at cero to AC-1 rated value Imited to 60 s switching at zero current maximum Imited to 60 s switching at cero to AC-1 rated value Imited to 60 s switching at cero to AC-1 rated value Imited to 60 s switching at cero to AC-1 rated value Imited to 60 s switching at cero to AC-1 rated value Imited to 60 s switching at cero acc. to AC-1 rated value Imited to 60 s switching acc. to AC-1 rated value Imited to 60 s switching acc. to AC-1 rated value Imited to 60 s switching acc. to AC-1 rated value Imited to 60 s switching acc. to AC-1 rated value Imited to AC-1 maximum cross-section acc. to AC-1 rated value Imited to AC-1 maximum cross-section acc. to AC-1 rated value Imited to AC-1 maximum cross-section acc. to AC-1 rated value Imited to AC-1 maximum cross-section acc. to AC-1 rated value Imited to AC-1 maximum cross-section acc. to AC-1 rated value Imited to AC-1 maximum cross-section acc. to AC-1 rated value Imited to AC-1 maximum cross-section acc. to AC-1 maximum cross-s | - | |
| Iminited to 60 s switching at zero current maximum Incoload switching frequency Incoload swit | - | · |
| no-load switching frequency • at DC operating frequency • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage type of voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.25 closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W | - | |
| at DC operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 750 1/h at AC-3 maximum 750 1/h at AC-3 maximum 750 1/h at AC-3 maximum 750 1/h at AC-4 maximum 750 1/h at AC-4 maximum 750 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC arated value 0 rated value 0 perating range factor control supply voltage rated value of magnet coil at DC initial value aritical value 1.25 closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W | · | OUT, OSC MINIMUM GIOSS-SCOTION ACC. TO MO-1 FAIGU VAIUE |
| operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value • rated value • rated value • rated value • initial value • full-scale value 1.25 closing power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W | | 10 000 1/h |
| at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC arated value | | 10 000 1/11 |
| at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 250 1/h at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC arated value arated value operating range factor control supply voltage rated value of magnet coil at DC initial value arated value 0.7 arated value 24 V operating range factor control supply voltage rated value of magnet coil at DC arated value 2.8 W holding power of magnet coil at DC 2.8 W | | 1 000 1/h |
| at AC-3 maximum at AC-3e maximum at AC-4 maximum at AC-3 maximum at AC-3e maximum at AC-4e maximum at AC- | | |
| at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC arated value operating range factor control supply voltage rated value of magnet coil at DC initial value of tull-scale value closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W control supply voltage at DC 2.8 W | | |
| at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC orated value operating range factor control supply voltage rated value of magnet coil at DC initial value of tull-scale value closing power of magnet coil at DC holding power of magnet coil at DC 250 1/h DC 24 V 0.7 0.7 2.8 W 28 W | | |
| type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value of tull-scale value closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W | | |
| type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value closing power of magnet coil at DC holding power of magnet coil at DC 24 V 0.7 2.8 W closing power of magnet coil at DC 2.8 W | | 200 1/11 |
| control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W | | DC |
| | | DC |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W 2.8 W | | 24.1/ |
| magnet coil at DC | | 24 V |
| initial value full-scale value closing power of magnet coil at DC holding power of magnet coil at DC 2.8 W | | |
| ● full-scale value 1.25 closing power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W | | 0.7 |
| closing power of magnet coil at DC 2.8 W holding power of magnet coil at DC 2.8 W | | |
| holding power of magnet coil at DC 2.8 W | | |
| | | |
| | | |

| | 25 120 |
|---|--|
| • at DC | 25 130 ms |
| opening delay | 7. 00 |
| • at DC | 7 20 ms |
| arcing time | 10 15 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | 1 |
| number of NO contacts for auxiliary contacts instantaneous contact | |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| at 230 V rated value | 10 A |
| • at 400 V rated value | 3 A |
| at 500 V rated value | 2 A |
| at 690 V rated value | 1 A |
| operational current at DC-12 | |
| • at 24 V rated value | 10 A |
| at 48 V rated value | 6 A |
| • at 60 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| • at 125 V rated value | 2 A |
| • at 220 V rated value | 1 A |
| • at 600 V rated value | 0.15 A |
| operational current at DC-13 | |
| at 24 V rated value | 10 A |
| at 48 V rated value | 2 A |
| at 60 V rated value | 2 A |
| • at 110 V rated value | 1 A |
| • at 125 V rated value | 0.9 A |
| • at 220 V rated value | 0.3 A |
| at 600 V rated value | 0.1 A |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| III /CSA rotings | |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value | 7.6 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value | 7.6 A 9 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor | 9 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value | 9 A 0.33 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value | 9 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor | 9 A 0.33 hp 1 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value | 9 A 0.33 hp 1 hp 2 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value | 9 A 0.33 hp 1 hp 2 hp 3 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes |
| full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 58 mm |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width | 9 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp A600 / Q600 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 58 mm 45 mm |

| — forwards | 10 mm |
|--|--|
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — at the side | 6 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 6 mm |
| Connections/ Terminals | · · · · · · · · · · · · · · · · · · · |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control circuit | screw-type terminals |
| at contactor for auxiliary contacts | screw-type terminals |
| • | Screw-type terminals |
| of magnet coil tune of connectable conductor cross sections for main contacts | Screw-type terminals |
| type of connectable conductor cross-sections for main contacts | 0 (0.5 |
| • solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| solid or stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| connectable conductor cross-section for main contacts | |
| • solid | 0.5 4 mm ² |
| • stranded | 0.5 4 mm ² |
| finely stranded with core end processing | 0.5 2.5 mm² |
| connectable conductor cross-section for auxiliary contacts | |
| solid or stranded | 0.5 4 mm ² |
| finely stranded with core end processing | 0.5 2.5 mm² |
| type of connectable conductor cross-sections | |
| • for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 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), 2x 12 |
| AWG number as coded connectable conductor cross section | |
| • for main contacts | 20 12 |
| for auxiliary contacts | 20 12 |
| Safety related data | LV 12 |
| | |
| product function | No |
| mirror contact according to IEC 60947-4-1 witchillty for use sofety related switching OEE | No Von |
| suitability for use safety-related switching OFF | Yes 1 000 000 |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| proportion of dangerous failures | 40.97 |
| with low demand rate according to SN 31920 with high demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 failure rate [EIT] with law demand rate according to SN 31920 | 73 % |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a |
| 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 |
| Certificates/ approvals | |
| General Product Approval | |
| | |







Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good

Environment



Confirmation



Vibration and Shock

Transport Information

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2016-1HB41

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2016-1HB41}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1HB41

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

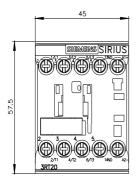
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1HB41&lang=en

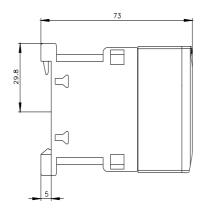
Characteristic: Tripping characteristics, I2t, Let-through current

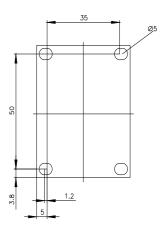
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1HB41/char

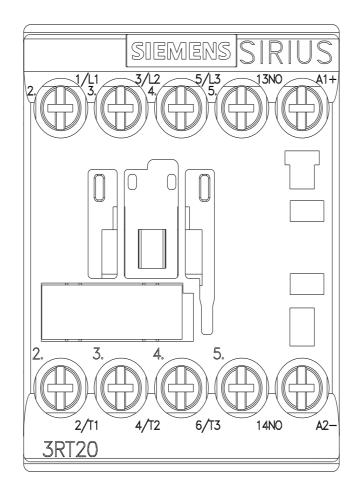
Further characteristics (e.g. electrical endurance, switching frequency)

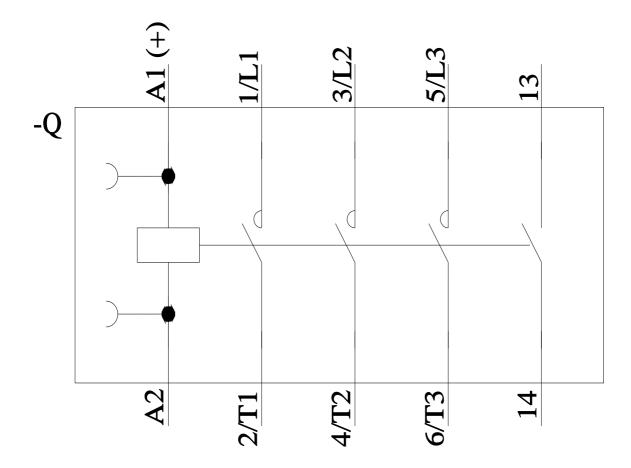
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-1HB41&objecttype=14&gridview=view1











last modified: 8/15/2023 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RT20161HB41