SIEMENS

Data sheet

3RT1076-2AF36



power contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 110-127 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional spring-loaded terminal

| size of contactor S12 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 165 W • at AC in hot operating state 165 W • at AC in hot operating state per pole 55 W • of main circuit with degree of pollution 3 rated value 10 W • of main circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit with degree of pollution 3 rated value 500 V • of main circuit rated value 6 kV maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 8 kV shock resistance at rectangular impulse 4.5g / 5 ms. 4.2g / 10 ms • at AC 8.5g / 5 ms. 4.2g / 10 ms • at AC 13.4g / 5 ms. 6.5g / 10 ms • at AC 13.4g / 5 ms. 6.5g / 10 ms • at AC 13.4g / 5 ms. 6.5g / 10 ms • at AC 13.4g / 5 ms. 6.5g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized priving avitch block typical 10 000 000 • of | product brand name | SIRIUS |
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| General technical data S12 size of contactor S12 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 165 W • at AC in hot operating state per pole 55 W 0 W • of main circuit with degree of pollution 3 rated value 1000 V 500 V • of main circuit with degree of pollution 3 rated value 1000 V 500 V • of main circuit rated value 8 kV 680 V • of main circuit rated value 6 kV 680 V maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 8.5g / 5 ms, 4.2g / 10 ms • at AC 8.5g / 5 ms, 4.2g / 10 ms 650 V • at AC 13.4g / 5 ms, 6.5g / 10 ms 13.4g / 5 ms, 6.5g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms 10.000 000 • at DC 10.000 000 5 000 000 | product designation | Power contactor |
| size of contactor S12 product extension No • druction module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 165 W • at AC in hot operating state per pole 55 W • without load current share typical 1000 V • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at DC 8,5g / 5 ms, 4,2g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 10 000 000 • 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 0500 Voice • of the contactor with added auxiliary switch block typical 0500 1000 • of the contactor with added auxiliary switch block typical 0500 000 | product type designation | 3RT1 |
| Joint Control Joint Product extension Joint Product extension • function module for communication • auxiliary switch Power Joss (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 • of main circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at AC | General technical data | |
| function module for communication auxiliary switch yes 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 of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit with degree of pollution 3 rated value of auxiliary circuit rated value at AC at AC at DC brock resistance with sine pulse at AC at DC at DC brock resistance with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical | size of contactor | S12 |
| • auxiliary switchYespower loss [VI] for rated value of the currentI• at AC in hot operating state165 W• at AC in hot operating state probe55 W• at AC in hot operating state probe10 Winsulation voltage10 W• of main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit rated value8 kV• of main circuit rated value6 kV• of auxiliary circuit rated value8 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8 kV• of auxiliary circuit rated value900 V• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• at AC10 000 000• at AC10 000 000• of the contactor with added electronically optimized10 000 000• of the contactor with added electronically optimized10 000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added electronically optimized10 000 000• of the contactor with added auxiliary switch block typical05/01 | 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 st AC in hot operating state per pole without load current share typical 10 W 10 W insulation voltage of main circuit with degree of pollution 3 rated value 10 UV • of main circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit with degree of pollution 3 rated value 500 V • of main circuit rated value 6 kV of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 8500 V shock resistance at rectangular impulse 8,5g / 5 ms, 4,2g / 10 ms • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 10 000 000 • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 00 | function module for communication | No |
| • at AC in hot operating state165 W• at AC in hot operating state per pole55 W• without load current share typical10 W insulation voltage 0 M main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit rated value6 k/V• of main circuit rated value8 kV• of main circuit rated value6 k/V• of main circuit rated value8 kV• of main circuit rated value6 k/V• of auxiliary circuit rated value8 kV• at AC8.5g / 5 ms, 4.2g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at DC13.4g / 5 ms, 6.5g / 10 ms• at DC13.4g / 5 ms, 6.5g / 10 ms• at DC10 000 000• of the contactor with added electronically optimized auxiliary switch block typical• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical05/01/2012Ambient conditions2000 minstallation altitude at height above sea level maximum2000 m< | auxiliary switch | Yes |
| • at AC in hot operating state per pole55 W• without load current share typical10 Winsulation voltage1 000 V• of main circuit with degree of pollution 3 rated value1 000 V• of main circuit with degree of pollution 3 rated value500 Vsurge voltage resistance6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• at AC8.5g / 5 ms, 4.2g / 10 ms• at AC8.5g / 5 ms, 4.2g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at AC10 00 000• at DC13.4g / 5 ms, 6.5g / 10 ms• at DC10 000 000• at DC10 000 000• at DC10 000 000• at DC5 000 000• at DC10 000 000• at DC05/01/2012Ambient conditions2 000 minstallation attruted at height above sea level maximum2 000 m• atblict above sea level maximum2 000 m | power loss [W] for rated value of the current | |
| • without load current share typical10 WInsulation voltage1000 V• of main circuit with degree of pollution 3 rated value1000 V• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance500 V• of main circuit rated value8 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value600 V• of auxiliary circuit rated value600 V• of auxiliary circuit rated value800 V• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• at AC10 000 000• at AC10 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 typical2000 mauxiliary switch block typical2000 minstallation altitude at height above sea level maximum2000 mauxiliary switch temperature2000 m• during operation2000 m | at AC in hot operating state | 165 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 500 V surge voltage resistance 500 V • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 690 V • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • 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 | at AC in hot operating state per pole | 55 W |
| • of main circuit with degree of pollution 3 rated value1 000 V• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance8 kV• of main circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1690 V• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical00 000• firthe contactor with addee auxiliary switch block typical00 000 <td< td=""><td> without load current share typical </td><td>10 W</td></td<> | without load current share typical | 10 W |
| • of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance • of main circuit rated value8 kV• of main circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse • at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 mambient temperature • during operation2 000 m | insulation voltage | |
| value Image: voltage resistance surge voltage resistance 8 kV of main circuit rated value 8 kV of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 650 V e at AC 8.5g / 5 ms, 4.2g / 10 ms at DC 8.5g / 5 ms, 6.5g / 10 ms e at AC 13.4g / 5 ms, 6.5g / 10 ms e at AC 13.4g / 5 ms, 6.5g / 10 ms e at AC 10 000 000 e at AC 10 000 000 e of contactor typical 10 000 000 e of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 e of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 2000 m ambient temperature 2000 m e during operation 2000 m | of main circuit with degree of pollution 3 rated value | 1 000 V |
| • of main circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse5• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• 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 typical2 000 mreference code according to IEC 81346-2QAubient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m | | 500 V |
| • of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kJ / 0 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC3,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with addee auxiliary switch block typical0 000 000• of the contactor with addee auxiliary switch block typical0 000 000• of the contactor with addee auxiliary switch block typical0 000 m• of the contactor with ad | surge voltage resistance | |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse • at AC • at DC8,5g / 5 ms, 4,2g / 10 ms 8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse • at AC • at DC13,4g / 5 ms, 6,5g / 10 msshock resistance with sine pulse • at AC • at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles) • of contactor typical10 000 000of the contactor with added electronically optimized auxiliary switch block typical10 000 000of the contactor with added auxiliary switch block typical000 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m | of main circuit rated value | 8 kV |
| coil and main contacts according to EN 60947-1shock resistance at rectangular impulse• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with added auxiliary switch block000 000• of the contactor with added auxiliary switch block000 000• of the contactor with added auxiliary switch block05/01/2012Ambient conditions2 000 m• during operation2 000 m | of auxiliary circuit rated value | 6 kV |
| • at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block typical2 000 000• of the contactor with added auxiliary switch block typical2 000 m• during operation2 000 m | | 690 V |
| at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• mechanical service life (switching cycles)•• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical0000000• of the contactor with added auxiliary switch block typical0000000• of the contactor by the contactor with added auxiliary switch block typical000000000000000000000000000000000 | shock resistance at rectangular impulse | |
| shock resistance with sine pulse istrate in the pulse • at AC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms mechanical service life (switching cycles) in 0 000 000 • 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 0 000 000 • of the contactor with added auxiliary switch block typical 0 000 000 • of the contactor with added auxiliary switch block 10 000 000 • of the contactor with added auxiliary switch block 10 000 000 • of the contactor with added auxiliary switch block 0 000 000 • of the contactor with added auxiliary switch block 10 000 000 • of the contactor with added auxiliary switch block 0 000 000 • of the contactor with added auxiliary switch block 0 000 000 • of the contactor with added auxiliary switch block 0 000 000 • of the contactor with added auxiliary switch block 0 000 000 • of the contactor with added auxiliary switch block 0 000 000 • of the contactor with added auxiliar | • at AC | 8,5g / 5 ms, 4,2g / 10 ms |
| • at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical05/01/2012• of the contactor with added auxiliary switch block typical000 m• of the contactor with added auxiliary switch block typical2 000 m• during operation-25 +60 °C | • at DC | 8,5g / 5 ms, 4,2g / 10 ms |
| • at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor wit | shock resistance with sine pulse | |
| mechanical service life (switching cycles) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C | • at AC | 13,4g / 5 ms, 6,5g / 10 ms |
| • of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m | • at DC | 13,4g / 5 ms, 6,5g / 10 ms |
| • of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m | mechanical service life (switching cycles) | |
| auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m | of contactor typical | 10 000 000 |
| typical Image: constraint of the second se | , , | 5 000 000 |
| Substance Prohibitance (Date) 05/01/2012 Ambient conditions 105/01/2012 installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C | | 10 000 000 |
| Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C | reference code according to IEC 81346-2 | Q |
| installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C | Substance Prohibitance (Date) | 05/01/2012 |
| ambient temperature • during operation -25 +60 °C | Ambient conditions | |
| • during operation -25 +60 °C | installation altitude at height above sea level maximum | 2 000 m |
| | ambient temperature | |
| • during storage -55 +80 °C | during operation | -25 +60 °C |
| | during storage | -55 +80 °C |

| relative humidity minimum | 10 % |
|---|---------------------|
| relative humidity at 55 °C according to IEC 60068-2-30 | 95 % |
| maximum | |
| Main circuit | 2 |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage | 4.000 \/ |
| at AC-3 rated value maximum | 1 000 V |
| at AC-3e rated value maximum | 1 000 V |
| operational current | 040 A |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 610 A |
| • at AC-1 | |
| | 610 A |
| — up to 690 V at ambient temperature 40 °C rated value | 610 A |
| — up to 690 V at ambient temperature 60 °C | 550 A |
| rated value | |
| — up to 1000 V at ambient temperature 40 °C | 200 A |
| rated value | |
| — up to 1000 V at ambient temperature 60 °C | 200 A |
| rated value | |
| • at AC-3 | |
| — at 400 V rated value | 500 A |
| — at 500 V rated value | 500 A |
| — at 690 V rated value | 450 A |
| — at 1000 V rated value | 180 A |
| • at AC-3e | |
| — at 400 V rated value | 500 A |
| — at 500 V rated value | 500 A |
| — at 690 V rated value | 450 A |
| — at 1000 V rated value | 180 A |
| at AC-4 at 400 V rated value | 430 A |
| at AC-5a up to 690 V rated value | 536 A |
| • at AC-5b up to 400 V rated value | 415 A |
| ● at AC-6a | |
| — up to 230 V for current peak value n=20 rated | 414 A |
| value | |
| — up to 400 V for current peak value n=20 rated | 414 A |
| value | |
| up to 500 V for current peak value n=20 rated | 414 A |
| value | |
| up to 690 V for current peak value n=20 rated value | 414 A |
| — up to 1000 V for current peak value n=20 rated | 180 A |
| value | |
| • at AC-6a | |
| — up to 230 V for current peak value n=30 rated | 276 A |
| value | 2107 |
| — up to 400 V for current peak value n=30 rated | 276 A |
| value | |
| — up to 500 V for current peak value n=30 rated | 276 A |
| value | |
| up to 690 V for current peak value n=30 rated | 276 A |
| value | |
| up to 1000 V for current peak value n=30 rated value | 180 A |
| | 270 mm ² |
| minimum cross-section in main circuit at maximum AC-1 rated value | 370 mm ² |
| operational current for approx. 200000 operating | |
| cycles at AC-4 | |
| at 400 V rated value | 175 A |
| at 690 V rated value | 150 A |
| operational current | |
| • at 1 current path at DC-1 | |
| at i cantone path at bo i | |

| — at 24 V rated value | 400 A |
|---|--------------------------|
| — at 110 V rated value | 33 A |
| — at 220 V rated value | 3.8 A |
| — at 440 V rated value | 0.9 A |
| — at 600 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 A |
| — at 440 V rated value | 4 A |
| — at 600 V rated value | 2 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 A |
| | |
| — at 440 V rated value | 11 A |
| — at 600 V rated value | 5.2 A |
| at 1 current path at DC-3 at DC-5 | 100 A |
| — at 24 V rated value | 400 A |
| — at 110 V rated value | 3 A |
| — at 220 V rated value | 0.6 A |
| — at 440 V rated value | 0.18 A |
| — at 600 V rated value | 0.125 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 2.5 A |
| — at 440 V rated value | 0.65 A |
| — at 600 V rated value | 0.37 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 A |
| — at 440 V rated value | 1.4 A |
| — at 600 V rated value | 0.75 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 160 kW |
| — at 400 V rated value | 250 kW |
| — at 500 V rated value | 315 kW |
| — at 690 V rated value | 400 kW |
| — at 1000 V rated value | 250 kW |
| • at AC-3e | |
| — at 230 V rated value | 160 kW |
| — at 400 V rated value | 250 kW |
| — at 500 V rated value | 315 kW |
| — at 690 V rated value | 400 kW |
| — at 1000 V rated value | 250 kW |
| operating power for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 98 kW |
| at 690 V rated value | 148 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 160 000 kVA |
| up to 200 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value | 280 000 VA |
| up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value | 350 000 VA |
| up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value | 490 000 VA |
| up to 690 v for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value | 490 000 VA 310 000 VA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 110 000 VA |
| - up to 200 v tor outront poart value II-ou rated value | 110 000 V/1 |

| up to 400 V for current peak value n=30 rated value | 190 000 VA | | |
|--|---|--|--|
| up to 500 V for current peak value n=30 rated value | 230 000 VA | | |
| up to 690 V for current peak value n=30 rated value | 330 000 VA | | |
| up to 1000 V for current peak value n=30 rated | 310 000 VA | | |
| value | | | |
| short-time withstand current in cold operating state up to 40 °C | | | |
| limited to 1 s switching at zero current maximum | 7 484 A; Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum | 7 484 A; Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 3 s switching at zero current maximum limited to 10 s switching at zero current maximum | 5 978 A; Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum | 3 765 A; Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum | 2 887 A; Use minimum cross-section acc. to AC-1 rated value | | |
| no-load switching frequency | 2 007 A, Use minimum cross-section acc. to AC-1 rated value | | |
| • at AC | 2 000 1/h | | |
| • at DC | 2 000 1/h | | |
| operating frequency | | | |
| • at AC-1 maximum | 500 1/h | | |
| • at AC-2 maximum | 170 1/h | | |
| • at AC-3 maximum | 420 1/h | | |
| • at AC-3e maximum | 420 1/h | | |
| • at AC-4 maximum | 130 1/h | | |
| Control circuit/ Control | | | |
| type of voltage of the control supply voltage | AC/DC | | |
| control supply voltage at AC | | | |
| at 50 Hz rated value | 110 127 V | | |
| • at 60 Hz rated value | 110 127 V | | |
| control supply voltage at DC | | | |
| • rated value | 110 127 V | | |
| operating range factor control supply voltage rated | | | |
| value of magnet coil at DC | | | |
| initial value | 0.8 | | |
| full-scale value | 1.1 | | |
| operating range factor control supply voltage rated | | | |
| value of magnet coil at AC | | | |
| • at 50 Hz | 0.8 1.1 | | |
| • at 60 Hz | 0.8 1.1 | | |
| design of the surge suppressor | with varistor | | |
| apparent pick-up power of magnet coil at AC | 000.1/4 | | |
| • at 50 Hz | 830 VA | | |
| • at 60 Hz | 830 VA | | |
| inductive power factor with closing power of the coil | 0.0 | | |
| ● at 50 Hz ● at 60 Hz | 0.9 | | |
| at 60 HZ apparent holding power of magnet coil at AC | 0.9 | | |
| apparent notaing power of magnet coll at AC • at 50 Hz | 9.2 VA | | |
| • at 50 Hz | 9.2 VA 9.2 VA | | |
| inductive power factor with the holding power of the | | | |
| coil | | | |
| • at 50 Hz | 0.9 | | |
| • at 60 Hz | 0.9 | | |
| closing power of magnet coil at DC | 920 W | | |
| holding power of magnet coil at DC | 10 W | | |
| closing delay | | | |
| • at AC | 45 100 ms | | |
| • at DC | 45 100 ms | | |
| opening delay | | | |
| • at AC | 60 100 ms | | |
| • at DC | 60 100 ms | | |
| arcing time | 10 15 ms | | |
| control version of the switch operating mechanism | Standard A1 - A2 | | |
| Auxiliary circuit | | | |

| number of NC contacts for auxiliary contacts instantaneous contact | 2 | | | |
|---|--|--|--|--|
| number of NO contacts for auxiliary contacts instantaneous contact | 2 | | | |
| operational current at AC-12 maximum | 10 A | | | |
| operational current at AC-15 | | | | |
| at 230 V rated value | 6 A | | | |
| • at 400 V rated value | 3 A | | | |
| • at 500 V rated value | 2 A | | | |
| • at 690 V rated value | 1 A | | | |
| operational current at DC-12 | | | | |
| • at 24 V rated value | 10 A | | | |
| • 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) | | | |
| UL/CSA ratings | | | | |
| full-load current (FLA) for 3-phase AC motor | | | | |
| at 480 V rated value | 477 A | | | |
| at 600 V rated value | 472 A | | | |
| yielded mechanical performance [hp] | - | | | |
| for 3-phase AC motor | | | | |
| – at 200/208 V rated value | 150 hp | | | |
| — at 220/230 V rated value | 200 hp | | | |
| — at 460/480 V rated value | 400 hp | | | |
| — at 575/600 V rated value | 500 hp | | | |
| contact rating of auxiliary contacts according to UL | A600 / Q600 | | | |
| Short-circuit protection | | | | |
| design of the fuse link | | | | |
| for short-circuit protection of the main circuit | | | | |
| — with type of coordination 1 required | gG: 630 A (690 V, 100 kA) | | | |
| — with type of assignment 2 required | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 | | | |
| with type of doorgnment 2 required | V, 50 kA) | | | |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) | | | |
| Installation/ mounting/ dimensions | | | | |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back | | | |
| fastening method | screw fixing | | | |
| side-by-side mounting | Yes | | | |
| height | 214 mm | | | |
| width | 160 mm | | | |
| depth | 225 mm | | | |
| required spacing | | | | |
| with side-by-side mounting | | | | |
| — forwards | 20 mm | | | |
| — upwards | 10 mm | | | |
| — downwards | 10 mm | | | |
| — at the side | 0 mm | | | |
| for grounded parts | | | | |
| | | | | |

| suitability for use safety-related switching OFF Certificates/ approvals General Product Approval | finger-safe, for vertical contact from the front with box terminal/cover Yes EMC | | | | |
|--|--|--|--|--|--|
| suitability for use • safety-related switching OFF Certificates/ approvals | Yes | | | | |
| suitability for usesafety-related switching OFF | | | | | |
| suitability for use | | | | | |
| | finger-safe, for vertical contact from the front with box terminal/cover | | | | |
| to a protection on the none according to ieu 00020 | finger-safe for vertical contact from the front with how terminal/cover | | | | |
| 60529 touch protection on the front according to IEC 60529 | | | | | |
| protection class IP on the front according to IEC | IP00; IP20 with box terminal/cover | | | | |
| B10 value with high demand rate according to SN 31920 | 1 000 000 | | | | |
| positively driven operation according to IEC 60947- 5-1 | No | | | | |
| mirror contact according to IEC 60947-4-1 | Yes | | | | |
| product function | | | | | |
| Safety related data | | | | | |
| for auxiliary contacts | 24 14 | | | | |
| section | | | | | |
| AWG number as coded connectable conductor cross | | | | | |
| at AWG cables for auxiliary contacts | 2x (24 14) | | | | |
| — finely stranded with core end processing — finely stranded without core end processing | 2x (0.25 1.5 mm ²) | | | | |
| — solid or stranded — finely stranded with core end processing | 2x (0,25 2,5 mm²) 2x (0.25 1.5 mm²) | | | | |
| — solid | 2x (0.25 2.5 mm ²) | | | | |
| for auxiliary contacts | 0(0.05 | | | | |
| type of connectable conductor cross-sections | | | | | |
| finely stranded without core end processing | 0.25 2.5 mm ² | | | | |
| finely stranded with core end processing | 0.25 1.5 mm² | | | | |
| solid or stranded | 0.25 2.5 mm ² | | | | |
| connectable conductor cross-section for auxiliary contacts | | | | | |
| stranded | 70 240 mm² | | | | |
| connectable conductor cross-section for main contacts | | | | | |
| at AWG cables for main contacts | 2/0 500 kcmil | | | | |
| type of connectable conductor cross-sections | 2/0 = 500 kemil | | | | |
| number of holes | 1 | | | | |
| diameter of holes | 11 mm | | | | |
| thickness of connection bar | 6 mm | | | | |
| width of connection bar | 25 mm | | | | |
| of magnet coil | Spring-type terminals | | | | |
| at contactor for auxiliary contacts | Spring-type terminals | | | | |
| for auxiliary and control circuit | spring-loaded terminals | | | | |
| for main current circuit | Connection bar | | | | |
| type of electrical connection | | | | | |
| Connections/ Terminals | | | | | |
| — at the side | 10 mm | | | | |
| — downwards | 10 mm | | | | |
| — upwards | 10 mm | | | | |
| — forwards | 20 mm | | | | |
| for live parts | 10 11111 | | | | |
| — at the side — downwards | 10 mm 10 mm | | | | |
| — upwards | 10 mm | | | | |
| — forwards | 20 mm | | | | |

 Functional Safety/Safety of
 Declaration of Conformity
 Test Certificates
 Marine / Shipping

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| Machinery Type Examination Certificate | UK CA | CE EG-Konf. | Type Test Certific- ates/Test Report | <u>Special Test Certific-</u> <u>ate</u> | ABS |
|--|---|----------------|---|---|---------------------|
| Marine / Shipping | | | other | | |
| Llovd's Register us | PRS | RMRS RMRS | <u>Confirmation</u> | <u>Miscellaneous</u> | <u>Confirmation</u> |
| other | Railway | | | | |
| <u>Miscellaneous</u> | <u>Special Test Certific-</u> <u>ate</u> | | | | |
| | | | | | |
| Further information Information- and Downloadcenter (Catalogs, Brochures,) | | | | | |
| https://www.siemens.com/ic10 | | | | | |
| Industry Mall (Online ordering system) <u>https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1076-2AF36</u> Cax online generator http://support.automation_siemens_com/W/W/CAXorder/default.aspx?lang=en&mlfb=3RT1076-2AF36 | | | | | |

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-2AF36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-2AF36

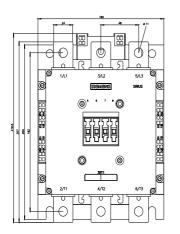
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

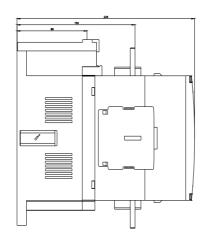
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-2AF36&lang=en

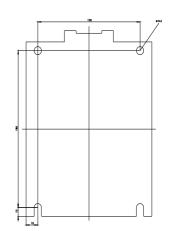
Characteristic: Tripping characteristics, I²t, Let-through current

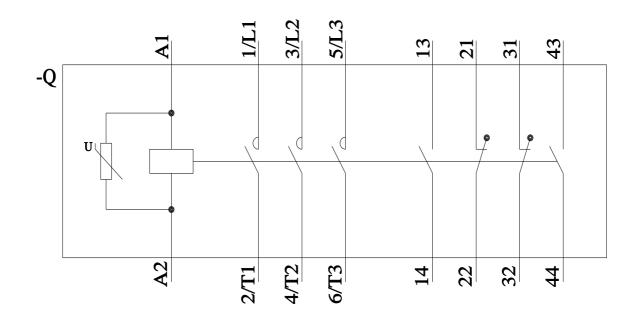
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-2AF36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-2AF36&objecttype=14&gridview=view1









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6/25/2022 🖸