## SIEMENS

## Data sheet

## 3RA6120-2AB34



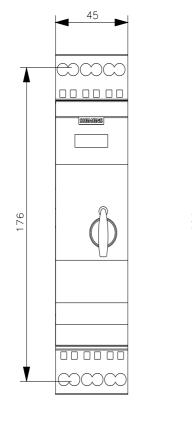
SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 0.1...0.4 A IP20 Connection main circuit: Spring-type terminal Connection auxiliary circuit: plug-in, without terminals

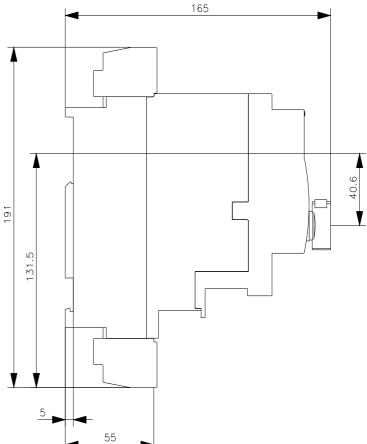
| product brand nameSIRUSproduct designationcompact staterdesign of the productdirect statergeneral technical datastaterproduct traction control circuit interface to parallel witingYesproduct actions an auding switchYesproduct actions on auding state0.01 Wet at AC in not operating state0.01 Wet at AC in not operating state per pole0.01 Wwithout act ournet stare typical2.9 Winsulation voltage rated value6000 Vdegree of pollution3.0surge voltage roststance raded value6000 Vdegree of pollution2.9 Winsulation voltage rated value6000 Vdegree of pollution3.0surge voltage roststance raded value6000 Vobleween amin and auxiliary circuit250 Vobleween control and auxiliary circuit260 Vof the main contracts typical300 Vdegree of protection NEMA rating1000 000of the main contracts typical1000 000of the main contracts typical1000 000of the main contracts typical200 000of the signang contracts typical300 00of the signang contracts typical200 000of the signang contracts typical300 00of the signang contracts typical200 000of the signang contracts typical500 12012 </th <th>112 - 671</th> <th></th>  | 112 - 671   |   |
|--|---|---|
| design of the product         direct starter           product type designation         3RA61           Contralt technical data  | product brand name  | SIRIUS  |
| product type designation         3RA61           General technical data  | product designation   | compact starter   |
| General technical data       Yes         product function control circuit interface to parallel wiring       Yes         product extension auxiliary switch       Yes         power loss [W] for rated value of the current       0.01 W         • at AC in hot operating state prole       0.01 W         • without load current share typical       2.9 W         Insulation voltage rated value       690 V         degree of pollution       3         • surge voltage resistance rated value       6000 V         • between main and auxiliary circuit       400 V         • between control and auxiliary circuit       300 V         degree of pollution       300 V         degree of protection NEMA rating       other         shock resistance       a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       a=00 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       a=00 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibr    | design of the product   | direct starter  |
| product function control circuit interface to parallel wiring         Yes           product extension auxiliary switch         Yes           power loss [M] for rated value of the current         0.01 W           • at AC in hot operating state per pole         0.01 W           • without load current share typical         2.9 W           Insulation voltage rated value         600 V           degree of pollution         3           surge voltage rated value         600 V           • between main and auxiliary circuit         200 V           • between control and auxiliary circuit         200 V           • of the main contacts typical         10 000 000           • of the main contacts typical         10 000 000      <                   | product type designation                                      | 3RA61   |
| product extension auxiliary switch         Yes           power loss [W] for rated value of the current   | General technical data  |   |
| power loss [W] for rated value of the current <ul> <li>at AC in hot operating state</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at AC in hot operating state probe</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at AC in hot operating state probe</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at AC in hot operating state per pole</li> <li>0.01 W</li> <li>at an and auxiliary circuit</li> <li>2.9 W</li> <li>between auxiliary oricuit</li> <li>2.00 V</li> <li>degree of protection NEM rating</li> <li>other</li> <li>abock resistance</li> <li>at AC hat ating</li> <li>other main contacts typical</li> <li>ot 000 000</li> <li>of the main contacts typical</li> <li>ot 000 000</li> <li>ot the signaling contacts typical</li> <li>ot 000 000</li> <li>at AC -15 at 6 A t 24 V typical</li> <li>200 000</li> <li>at AC -15 at</li></ul>   | product function control circuit interface to parallel wiring | Yes   |
| • at AC in hot operating state0.01 W• at AC in hot operating state pr pole0.01 W• without load current share typical2.9 Winsulation voltage rated value690 Vdegree of pollution3surge voltage resistance rated value600 Vmaximup permissible voltage for protective separation400 V• between main and auxiliary circuit400 V• between auxiliary and auxiliary circuit250 V• between outrol and auxiliary circuit300 V• between outrol and auxiliary circuit300 V• between outrol and auxiliary circuit260 W• between outrol and auxiliary circuit300 V• between outrol and auxiliary circuit260 W• between outrol and auxiliary circuit300 V• between outrol and auxiliary circuit300 V• between outrol and auxiliary circuit300 V• othera=60 m/s2 (6g) with 10 ms per 3 shocks in all axes• vibration resistancer=4 5.8 Hz, d= 15 mm; r= 5.8 500 Hz, a= 20 m/s²; 10 cycles• of the main contacts typical10 000 000• of the main contacts typical10 000 000• of the main contacts typical200 000• at DC-15 at 6 A at 24 V typical200 000• at AC-15 at 6 A at 24 V typical200 000• at AC-15 at 6 A at 24 V typical0/0 N• at AC-15 at 6 A at 24 V typical0/0 N• at AC-15 at 6 A at 24 V typical0/0 N• at AC-15 at 6 A at 24 V typical0/0 N• at AC-15 at 6 A at 24 V typical0/0 N• at AC-1  | product extension auxiliary switch                            | Yes   |
| • at AC in hot operating state per pole0.01 W• without load current share typical2.9 Winsulation voltage rated value600 Vdegree of pollution3surge voltage resistance rated value6 000 V• between main and auxiliary circuit250 V• between main and auxiliary circuit250 V• between control and auxiliary circuit300 Vdegree of protection NEMA ratingothershock resistanceref 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cyclesmechanical service life (operating cycles)10 000 000• of the main contacts typical10 000 000• of the signaling contacts typical10 000 000• at AC -15 at 6 A at 24 V typical30 000• at AC -15 at 6 A at 230 V bypical200 000• between cording to IEC 81346-2QSubstance Prohibitance (Date)50/01/2012Ambient conditions200 mattacting strage55 +80 °C• during operation-20 +60 °C• during torage-55 +80 °C• during torage  | power loss [W] for rated value of the current                 |   |
| • without load current share typical         2.9 W           Insulation voltage rated value         690 V           degree of pollution         3           surge voltage resistance rated value         6000 V           maximum permissible voltage for protective separation         6000 V           • between main and auxiliary circuit         400 V           • between control and auxiliary circuit         300 V           degree of protection NEMA rating         other           shock resistance         a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes           vibration resistance         f 4 5.8 Hz, d = 15 mm; f= 5.8 500 Hz, a= 20 m/s <sup>3</sup> ; 10 cycles           mechanical service life (operating cycles)         10 000 000           • of the main contacts typical         10 000 000           • of auxiliary contacts typical         10 000 000           • of the signaling contacts typical         200 000           • of the signaling contacts typical         200 000           • at DC-13 at 6 A at 230 V typical         200 000           • at AC-15 at 6 A at 230 V typical         200 000           • at AC-15 at 6 A at 230 V typical         0           Substance Prohibitance (Date)         5/01/2012           Ambient temperature         0           • during operation         -20 +60 °C             | <ul> <li>at AC in hot operating state</li> </ul>              | 0.01 W  |
| Insulation voltage rated value       690 V         degree of pollution       3         surge voltage resistance rated value       6 000 V         maximum permissible voltage for protective separation       000 V         • between main and auxiliary circuit       400 V         • between auxiliary and auxiliary circuit       300 V         • between control and auxiliary circuit       300 V         degree of protection NEMA rating       other         shock resistance       a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       fe 4 5.8 Hz, d= 15 mm; fe 5.8 500 Hz, a= 20 m/s <sup>2</sup> ; 10 cycles         mechanical service life (operating cycles)       000 0000         • of the main contacts typical       10 000 000         • of the signaling contacts typical       10 000 000         • at DC-13 at 6 A at 24 V typical       30 000         • at AC-15 at 6 A at 23 V typical       200 000         type of assignment       continous operation according to IEC 60947-6-2         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/01/2012         Ambient conditions       2000 m         ambient temperature       -         • during operation       -20 +60 °C         • during torage   | <ul> <li>at AC in hot operating state per pole</li> </ul>     | 0.01 W  |
| degree of pollution       3         surge voltage resistance rated value       6 000 V         maximum permissible voltage for protective separation       6 000 V         • between main and auxiliary circuit       400 V         • between auxiliary dircuit       250 V         • between control and auxiliary circuit       300 V         degree of protection NEMA rating       other         shock resistance       a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       fe 4 5.8 Hz, d= 15 mm; fe 5.8 500 Hz, a= 20 m/s <sup>2</sup> ; 10 cycles         mechanical service life (operating cycles)       000 000         • of the main contacts typical       10 000 000         • of auxiliary contacts typical       10 000 000         • of the signaling contacts typical       30 000         • of the signaling contacts typical       10 000 000         • of the signaling contacts typical       30 000         • at DC-13 at 6 A at 230 V typical       200 000         • at DC-13 at 6 A at 230 V typical       200 000         • at Ac-15 at 6 A at 230 V typical       05/01/2012         Ambient conditions       -20 +60 °C         Installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         •   | <ul> <li>without load current share typical</li> </ul>        | 2.9 W   |
| surge voltage resistance rated value       6 000 V         maximum permissible voltage for protective separation       400 V         • between main and auxillary circuit       400 V         • between control and auxillary circuit       300 V         degree of protection NEMA rating       other         shock resistance       a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes         vibration resistance       fe 4 5.8 Hz, de 15 mm; fe 5.8 500 Hz, a= 20 m/s²; 10 cycles         mechanical service life (operating cycles)       10 000 000         • of the main contacts typical       10 000 000         • of the signaling contacts typical       10 000 000         • of the signaling contacts typical       30 000         • at DC-13 at 6 A at 24 V typical       200 000         type of assignment       continous operation according to IEC 60947-6-2         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       000 m         amblent conditions       200 m         installation altitude at height above sea level maximum       2 000 m         amblent temperature       -20 +60 °C         • during operation       -20 +60 °C         • during operation       -55 +80 °C         • during operation       -55 +80 °C <t< th=""><th>insulation voltage rated value</th><th>690 V</th></t<> | insulation voltage rated value                                | 690 V   |
| maximum permissible voltage for protective separation         400 V           • between main and auxiliary circuit         400 V           • between auxiliary and auxiliary circuit         250 V           • between control and auxiliary circuit         300 V           degree of protection NEMA rating         a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes           wibration resistance         a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes           vibration resistance         fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s <sup>2</sup> ; 10 cycles           mechanical service life (operating cycles)         in 0 000 000           • of the main contracts typical         10 000 000           • of the signaling contracts typical         10 000 000           • of the signaling contracts typical         300 00           • of the signaling contracts typical         200 000           • at DC-13 at 6 A at 24 V typical         30 000           • at AC-15 at 6 A at 230 V typical         200 000           • at AC-15 at 6 A at 230 V typical         05/01/2012           Ambient conditions         05/01/2012           Ambient conditions         2 000 m           ambient temperature         -20 +60 °C           • during operation         -20 +60 °C           • during operation         -55 +80 °C         | degree of pollution   | 3   |
| • between main and auxiliary circuit400 V• between auxiliary and auxiliary circuit250 V• between control and auxiliary circuit300 Vdegree of protection NEMA ratingothershock resistancea=60 m/s2 (6g) with 10 ms per 3 shocks in all axesvibration resistancef= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cyclesmechanical service life (operating cycles)f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles• of the main contacts typical10 000 000• of auxiliary contacts typical10 000 000• of the signaling contacts typical10 000 000• of the signaling contacts typical200 000• at DC-13 at 6 A at 24 V typical200 000• at AC-15 at 6 A at 230 V typical200 000• at AC-15 at 6 A at 230 V typical05/01/2012Ambient conditionscontinous operation according to IEC 60947-6-2• ference code according to IEC 81346-2Q• during operation200 mambient temperature-20 +60 °C• during operation-20 +60 °C• during torage-55 +80 °C <th>surge voltage resistance rated value</th> <th>6 000 V</th>  | surge voltage resistance rated value                          | 6 000 V   |
| • between auxiliary and auxiliary circuit250 V• between control and auxiliary circuit300 Vdegree of protection NEMA ratingothershock resistancea=60 m/s2 (6g) with 10 ms per 3 shocks in all axesvibration resistancef = 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cyclesmechanical service life (operating cycles)10 000 000of the main contacts typical10 000 000of the signaling contacts typical10 000 000of the signaling contacts typical10 000 000etcrical endurance (operating cycles) of auxiliary contacts200 000of assignment200 000eta t C-13 at 6 A at 24 V typical300 000at C-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions-20 +60 °C-during operation-20 +60 °C-during storage-55 +80 °C-during torage-55 +80 °C   | maximum permissible voltage for protective separation         |   |
| • between control and auxiliary circuit300 Vdegree of protection NEMA ratingothershock resistancea=60 m/s2 (6g) with 10 ms per 3 shocks in all axesvibration resistancef= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s <sup>2</sup> ; 10 cyclesmechanical service life (operating cycles)000 000• of the main contacts typical10 000 000• of the signaling contacts typical10 000 000• of the signaling cycles) of auxiliary contacts30 000• at DC-13 at 6 A at 24 V typical30 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• during to IEC 81346-2Q• during to IEC 81346-2Q• during to IEC 81346-2Q• ambient temperature2 000 m• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °C• relative humidity during operation10 90 %Main circuitImage: Total Addition  | <ul> <li>between main and auxiliary circuit</li> </ul>        | 400 V   |
| degree of protection NEMA rating     other       shock resistance     a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes       vibration resistance     f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s <sup>2</sup> ; 10 cycles       mechanical service life (operating cycles)     0 000 000       • of the main contacts typical     10 000 000       • of auxiliary contacts typical     10 000 000       • of the signaling contacts typical     10 000 000       • of the signaling contacts typical     10 000 000       • at DC-13 at 6 A at 24 V typical     30 000       • at DC-13 at 6 A at 230 V typical     200 000       type of assignment     continous operation according to IEC 60947-6-2       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     05/01/2012       Ambient temperature     -       • during operation     -20 +60 °C       • during trape     -55 +80 °C       • during trape     -55 +80 °C       • during trape     -55 +80 °C       • during operation     10 90 %   | <ul> <li>between auxiliary and auxiliary circuit</li> </ul>   | 250 V   |
| shock resistancea=60 m/s2 (6g) with 10 ms per 3 shocks in all axesvibration resistancef= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s², 10 cyclesmechanical service life (operating cycles)10 000 000• of the main contacts typical10 000 000• of duxiliary contacts typical10 000 000• of the signaling contacts typical10 000 000• of the signaling contacts typical10 000 000• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000• at AC-15 at 6 A at 230 V typical200 000• at AC-15 at 6 A at 230 V typical00 5/01/2012Ambient conditions05/01/2012Installation altitude at height above sea level maximum2 000 mambient temperature-20 +60 °C• during operation-20 +60 °C• during operation-55 +80 °C• during operation-55 +80 °C• during operation10 90 %  | <ul> <li>between control and auxiliary circuit</li> </ul>     | 300 V   |
| vibration resistance       f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles         mechanical service life (operating cycles)       0 000 000         • of the main contacts typical       10 000 000         • of the signaling contacts typical       10 000 000         • of the signaling contacts typical       10 000 000         • of the signaling contacts typical       10 000 000         • of the signaling contacts typical       200 000         • at DC-13 at 6 A at 24 V typical       30 000         • at AC-15 at 6 A at 230 V typical       200 000         type of assignment       continous operation according to IEC 60947-6-2         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/01/2012         Ambient conditions       2 000 m         ambient temperature       -         • during operation       -20 +60 °C         • during storage       -55 +80 °C         • during transport       -55 +80 °C         relative humidity during operation       10 90 %  | degree of protection NEMA rating                              | other   |
| mechanical service life (operating cycles)       10 000 000         • of the main contacts typical       10 000 000         • of auxiliary contacts typical       10 000 000         • of the signaling contacts typical       10 000 000         electrical endurance (operating cycles) of auxiliary contacts       30 000         • at DC-13 at 6 A at 24 V typical       30 000         • at AC-15 at 6 A at 230 V typical       200 000         type of assignment       continous operation according to IEC 60947-6-2         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       -20 +60 °C         • during operation       -25 +80 °C         • during transport       -55 +80 °C         • during transport       -55 +80 °C         • during transport       -55 +80 °C  | shock resistance  | a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes          |
| • of the main contacts typical10 000 000• of auxiliary contacts typical10 000 000• of the signaling contacts typical10 000 000• of the signaling contacts typical10 000 000• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000• type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °Crelative humidity during operation10 90 %Main circuit-  | vibration resistance  | f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles |
| • of auxiliary contacts typical10 000 000• of the signaling contacts typical10 000 000• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000• at AC-15 at 6 A at 230 V typical0 continous operation according to IEC 60947-6-2• reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012• during operation2 000 m• during operation2 000 m• during storage-55 +60 °C• during storage-55 +80 °C• during transport10 90 %   | mechanical service life (operating cycles)                    |   |
| • of the signaling contacts typical10 000 000electrical endurance (operating cycles) of auxiliary contacts30 000• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °Crelative humidity during operation10 90 %  | <ul> <li>of the main contacts typical</li> </ul>              | 10 000 000  |
| electrical endurance (operating cycles) of auxiliary contacts         • at DC-13 at 6 A at 24 V typical         • at AC-15 at 6 A at 230 V typical         • at AC-15 at 6 A at 230 V typical         continuous operation according to IEC 60947-6-2         reference code according to IEC 81346-2         Q         Substance Prohibitance (Date)         Ambient conditions         installation altitude at height above sea level maximum         a during operation         -20 +60 °C         • during storage         • during transport         -55 +80 °C         relative humidity during operation         10 90 %   | <ul> <li>of auxiliary contacts typical</li> </ul>             | 10 000 000  |
| • at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-20 +60 °C• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °Crelative humidity during operation10 90 %   | <ul> <li>of the signaling contacts typical</li> </ul>         | 10 000 000  |
| • at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-20 +60 °C• during operation-55 +80 °C• during transport-55 +80 °Crelative humidity during operation10 90 %  | electrical endurance (operating cycles) of auxiliary contacts |   |
| type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °Crelative humidity during operation10 90 %  | <ul> <li>at DC-13 at 6 A at 24 V typical</li> </ul>           | 30 000  |
| reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-20 +60 °C• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °Crelative humidity during operation10 90 %   | <ul> <li>at AC-15 at 6 A at 230 V typical</li> </ul>          | 200 000   |
| Substance Prohibitance (Date)       05/01/2012         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -55 +80 °C         • during transport       -55 +80 °C         relative humidity during operation       10 90 %  | type of assignment  | continous operation according to IEC 60947-6-2              |
| Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -55 +80 °C         • during transport       -55 +80 °C         relative humidity during operation       10 90 %   | reference code according to IEC 81346-2                       | Q   |
| installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -55 +80 °C         • during transport       -55 +80 °C         relative humidity during operation       10 90 %         Main circuit       -20 %   | Substance Prohibitance (Date)                                 | 05/01/2012  |
| ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -55 +80 °C         • during transport       -55 +80 °C         relative humidity during operation       10 90 %         Main circuit   | Ambient conditions  |   |
| • during operation       -20 +60 °C         • during storage       -55 +80 °C         • during transport       -55 +80 °C         relative humidity during operation       10 90 %   | installation altitude at height above sea level maximum       | 2 000 m   |
| • during storage     • during transport     • during transport     relative humidity during operation     Main circuit   | ambient temperature   |   |
| • during transport     • during transport     relative humidity during operation     10 90 % Main circuit  | <ul> <li>during operation</li> </ul>                          | -20 +60 °C  |
| relative humidity during operation 10 90 % Main circuit  | <ul> <li>during storage</li> </ul>                            | -55 +80 °C  |
| Main circuit   | during transport  | -55 +80 °C  |
|  | relative humidity during operation                            | 10 90 %   |
| number of poles for main current circuit 3   | Main circuit  |   |
|  | number of poles for main current circuit                      | 3   |

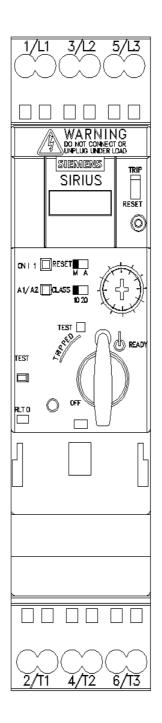
|   | _                          |
|---|----------------------------|
| adjustable current response value current of the current-<br>dependent overload release | 0.1 0.4 A                  |
| formula for making capacity limit current   | 120 x le                   |
| formula for limit current breaking capacity   | 100 x le                   |
| yielded mechanical performance for 4-pole AC motor                                      |                            |
| • at 400 V rated value  | 0.09 kW                    |
| at 500 V rated value  | 0.12 kW                    |
| at 690 V rated value  | 0.18 kW                    |
| operating voltage at AC-3 rated value maximum   | 690 V                      |
|   | 090 V                      |
| • at AC at 400 V rated value  | 0.4 A                      |
| • at AC-3 at 400 V rated value  | 0.4 A                      |
| • at AC-43  | 0.4 A                      |
| — at 400 V rated value  | 0.3 A                      |
| — at 500 V rated value  | 0.32 A                     |
| — at 600 V rated value  | 0.32 A                     |
|   | 0.55 A                     |
| <ul> <li>operating power</li> <li>at AC-3 at 400 V rated value</li> </ul>               | 0.09 kW                    |
| • at AC-43  | 0.09 KW                    |
|   | 90 W                       |
| — at 400 V rated value<br>— at 500 V rated value  | 90 W<br>120 W              |
|   | 120 W<br>180 W             |
| - at 690 V rated value  |                            |
| no-load switching frequency   | 3 600 1/h                  |
| operating frequency   | 750.4/h                    |
| • at AC-41 according to IEC 60947-6-2 maximum   | 750 1/h                    |
| at AC-43 according to IEC 60947-6-2 maximum   | 250 1/h                    |
| Control circuit/ Control  |                            |
| type of voltage   | AC/DC                      |
| control supply voltage 1 at AC  | 2414                       |
| • at 50 Hz rated value  | 24 V                       |
| • at 50 Hz  | 24 24 V                    |
| • at 60 Hz rated value  | 24 V                       |
| • at 60 Hz  | 24 V                       |
| control supply voltage frequency  | 50.11-                     |
| • 1 rated value   | 50 Hz<br>60 Hz             |
| • 2 rated value control supply voltage 1  |                            |
|   | 24 V                       |
| <ul> <li>at DC rated value</li> <li>at DC</li> </ul>                                    | 24 V<br>24 24 V            |
|   | 24 24 V                    |
| holding power   | 2.0 \W                     |
| • at AC maximum   | 2.8 W                      |
| at DC maximum   | 2.9 W                      |
| Auxiliary circuit   | 4                          |
| number of NC contacts for auxiliary contacts  | 1                          |
| number of NO contacts for auxiliary contacts  | 1                          |
| number of NO contacts of instantaneous short-circuit trip unit for<br>signaling contact | 1                          |
| number of CO contacts of the current-dependent overload release for signaling contact   | 1                          |
| operational current of auxiliary contacts at AC-12 maximum                              | 10 A                       |
| operational current of auxiliary contacts at DC-13 at 250 V                             | 0.27 A                     |
| Protective and monitoring functions   |                            |
| trip class  | CLASS 10 and 20 adjustable |
| operating short-circuit current breaking capacity (lcs)                                 |                            |
| • at 400 V  | 53 kA                      |
| • at 500 V rated value  | 3 kA                       |
| • at 690 V rated value  | 3 kA                       |
| UL/CSA ratings  |                            |
| full-load current (FLA) for 3-phase AC motor  |                            |
| • at 480 V rated value  | 0.4 A                      |
| • at 600 V rated value  | 0.4 A                      |
|   |                            |

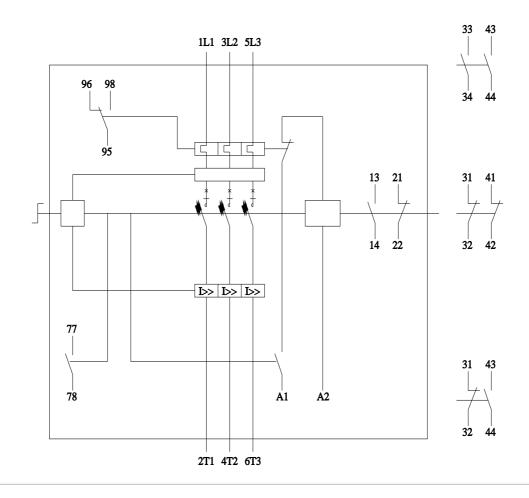
| contact rating of auxiliary contacts according to UL  | contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300 |  |  |
|---|---|--|--|
| Short-circuit protection  |   |  |  |
| product function short circuit protection   | Yes   |  |  |
| design of short-circuit protection  | electromagnetic   |  |  |
| design of the fuse link   |   |  |  |
| <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>                             | fuse gL/gG: 10 A  |  |  |
| <ul> <li>for short-circuit protection of the signaling switch of the</li> </ul>                               | 6A gL/gG/400V   |  |  |
| short-circuit release required  |   |  |  |
| <ul> <li>for short-circuit protection of the signaling switch of the<br/>overload release required</li> </ul> | 4A gL/gG/400V   |  |  |
| Installation/ mounting/ dimensions  |   |  |  |
| mounting position   | any   |  |  |
| recommended   | vertical, on horizontal standard DIN rail   |  |  |
| fastening method  | screw and snap-on mounting  |  |  |
| height  | 191 mm  |  |  |
| width   | 45 mm   |  |  |
| depth   | 165 mm  |  |  |
| Connections/ Terminals  |   |  |  |
| product component removable terminal for main circuit   | Yes   |  |  |
| product component removable terminal for auxiliary and  | Yes   |  |  |
| control circuit   |   |  |  |
| type of electrical connection   |   |  |  |
| <ul> <li>for main current circuit</li> </ul>  | spring-loaded terminals   |  |  |
| <ul> <li>for auxiliary and control circuit</li> </ul>   | plug-in without terminals   |  |  |
| type of connectable conductor cross-sections for main contacts  |   |  |  |
| • solid   | 2x (1.5 6 mm²), 1x 10 mm²   |  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 2x (1.5 6 mm²)  |  |  |
| <ul> <li>finely stranded without core end processing</li> </ul>   | 2x (1.5 6 mm²)  |  |  |
| type of connectable conductor cross-sections  |   |  |  |
| <ul> <li>for auxiliary contacts</li> </ul>  |   |  |  |
| — solid   | 2x (0.25 1.5 mm²)   |  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 2x (0.25 1.5 mm²)   |  |  |
| <ul> <li>finely stranded without core end processing</li> </ul>   | 2x (0.25 1.5 mm <sup>2</sup> )  |  |  |
| <ul> <li>for AWG cables for auxiliary contacts</li> </ul>   | 2x (24 16)  |  |  |
| Safety related data   |   |  |  |
| B10 value with high demand rate according to SN 31920   | 3 000 000   |  |  |
| proportion of dangerous failures  |   |  |  |
| with low demand rate according to SN 31920  | 40 %  |  |  |
| <ul> <li>with high demand rate according to SN 31920</li> </ul>   | 50 %  |  |  |
| failure rate [FIT] with low demand rate according to SN 31920   | 100 FIT   |  |  |
| T1 value for proof test interval or service life according to EC  | 20 a  |  |  |
| 61508   |   |  |  |
| protection class IP on the front according to IEC 60529   | IP20  |  |  |
| touch protection on the front according to IEC 60529  | finger-safe   |  |  |
| Communication/ Protocol   |   |  |  |
| product function bus communication  | No  |  |  |
| protocol is supported   |   |  |  |
| AS-Interface protocol   | No  |  |  |
| IO-Link protocol  | No  |  |  |
| product function control circuit interface with IO link   | No  |  |  |
| Electromagnetic compatibility   |   |  |  |
| conducted interference  |   |  |  |
| due to burst according to IEC 61000-4-4   | 4 kV main contacts, 2 kV auxiliary contacts   |  |  |
| due to conductor-earth surge according to IEC 61000-4-5   | 4 kV main contacts, 2 kV auxiliary contacts   |  |  |
| due to conductor-conductor surge according to IEC     61000-4-5   | 2 kV main contacts, 1 kV auxiliary contacts   |  |  |
| <ul> <li>due to high-frequency radiation according to IEC 61000-</li> </ul>                                   | 0.45, 00Mh= at 40M  |  |  |
|   | 0.15-80Mhz at 10V   |  |  |
| 4-6   |   |  |  |
| 4-6<br>field-based interference according to IEC 61000-4-3  | 10 V/m  |  |  |
| 4-6   |   |  |  |

| field-bound HF interferer   | and omission accord   | ding to CISPP11 30   | 1000 MHz Class A              |                          |   |  |
|---|---|--|-------------------------------|--------------------------|---|--|
| Supply voltage  | ice emission accord   | Sing to CISPRIT 30   | 1000 MINZ Class A             | _                        |   |  |
| Supply voltage required   |   | No   |                               |                          |   |  |
|   | Auxiliary voltage   | INC  | )                             | _                        |   |  |
| Display<br>number of LEDs   |   | 2  |                               |                          |   |  |
| Certificates/ approvals   |   | 2  |                               |                          |   |  |
| sertificates/ approvais   |   |  |                               |                          | <b>F</b> (1)                                  |  |
| General Product Approv  | al  |  |                               | EMC                      | Functional<br>Safety/Safety of Ma-<br>chinery |  |
| <u>Confirmation</u>   |   |  | EHC                           | RCM                      | UDE VDE                                       |  |
| Declaration of Conformi   | ty  | Test Certificates  | Marine / Shipping             |                          |   |  |
| UK<br>CA  | CE<br>EG-Konf.  | <u>Type Test Certific-</u><br>ates/Test Report   | ABS                           |                          | Lloyd's<br>Register<br>us                     |  |
| Marine / Shipping   |   | other  | Dangerous Good                |                          |   |  |
| PRS   |   | <u>Confirmation</u>  | Transport Information         | L                        |   |  |
| urther information<br>Siemens has decided to  | exit the Russian ma   | rket (see here).   |                               |                          |   |  |
| https://press.siemens.com<br>Siemens is working on tl   | /global/en/pressrelea<br>he renewal of the cu<br>Siemens office on the<br>er than the sanctionec<br>aging | se/siemens-wind-down-r<br>rrent EAC certificates.<br>status of validity of the B<br>I EAEU member states F | EAC certification if you inte | nd to import or offer to | supply these products to an                   |  |
| Information- and Downloadcenter (Catalogs, Brochures,)<br>https://www.siemens.com/ic10                          |   |  |                               |                          |   |  |
| Industry Mall (Online ord<br>https://mall.industry.sieme<br>Cax online generator<br>http://support.automation.s | ns.com/mall/en/en/Ca  |  |                               | 34                       |   |  |
| Service&Support (Manua<br>https://support.industry.sie  | als, Certificates, Cha<br>mens.com/cs/ww/en/  | aracteristics, FAQs,)<br>ps/3RA6120-2AB34  |                               | _                        |   |  |
| Image database (product http://www.automation.sier  |   |  |                               | ms, EPLAN macros,        | .)  |  |
| Characteristic: Tripping https://support.industry.sie   | characteristics, I <sup>2</sup> t, I<br>mens.com/cs/ww/en/  | _et-through current<br>ps/3RA6120-2AB34/cha  | <u>r</u>                      |                          |   |  |
| Further characteristics (e  |   |  |                               | ecttype=14&gridview=v    | iew1  |  |









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