



SIRIUS SOFT STARTER, SIZE S2, 72A,
37KW/400V, 40 DEGREES, 200-480V AC,
110-230V AC/DC, SCREW TERMINALS

| General details: | | |
|--|--|---|
| product brand name | | SIRIUS |
| Product equipment | | |
| <ul style="list-style-type: none"> integrated bridging contact system | | Yes |
| <ul style="list-style-type: none"> thyristors | | Yes |
| Product function | | |
| <ul style="list-style-type: none"> intrinsic device protection | | No |
| <ul style="list-style-type: none"> motor overload protection | | No |
| <ul style="list-style-type: none"> evaluation of thermal resistor motor protection | | No |
| <ul style="list-style-type: none"> reset external | | No |
| <ul style="list-style-type: none"> adjustable current limitation | | No |
| <ul style="list-style-type: none"> inside-delta circuit | | No |
| Product component / outlet for enine brake | | No |
| Item designation | | |
| <ul style="list-style-type: none"> according to DIN EN 61346-2 | | Q |
| <ul style="list-style-type: none"> according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | G |
| Power Electronics: | | |
| product designation | | soft starters for standard applications |
| Operating current | | |

| | | |
|---|----|-------------|
| • at 40 °C / rated value | A | 72 |
| • at 50 °C / rated value | A | 62 |
| • at 60 °C / rated value | A | 60 |
| Emitted mechanical power / for three-phase servomotors | | |
| • at 230 V / at standard switching / at 40 °C | | |
| • rated value | W | 22,000 |
| • at 400 V / at standard switching / at 40 °C | | |
| • rated value | W | 37,000 |
| yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated value | hp | 20 |
| Operating frequency | | |
| • rated value | Hz | 50 ... 60 |
| Relative negative tolerance / of the operating frequency | % | -10 |
| Relative positive tolerance / of the operating frequency | % | 10 |
| Operating voltage / with standard circuit / rated value | V | 200 ... 480 |
| Relative negative tolerance / of the operating voltage / with standard circuit | % | -15 |
| Relative positive tolerance / of the operating voltage / with standard circuit | % | 10 |
| Minimum load in % of I_M | % | 10 |
| Continuous operating current in % of I_e / at 40°C | % | 115 |
| Active power loss / at operating current / at 40°C / during operating phase / typical | W | 15 |

Control electronics:

| | | |
|--|----|-------------|
| Type of voltage / of the controlled supply voltage | | AC/DC |
| Control supply voltage frequency / 1 / rated value | Hz | 50 |
| Control supply voltage frequency / 2 / rated value | Hz | 60 |
| Relative negative tolerance / of the control supply voltage frequency | % | -10 |
| Relative positive tolerance / of the control supply voltage frequency | % | 10 |
| Control supply voltage / 1 / at 50 Hz / for AC | V | 110 ... 230 |
| Control supply voltage / 1 / at 60 Hz / for AC | V | 110 ... 230 |
| Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC | % | -10 |
| Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC | % | 10 |
| Control supply voltage / 1 / for DC | V | 110 ... 230 |
| Relative negative tolerance / of the control supply voltage / for DC | % | -10 |

| | | |
|---|---|-----|
| Relative positive tolerance / of the control supply voltage / for DC | % | 10 |
| Type of display / for fault signal | | red |

Mechanical design:

| | | |
|---|----|--|
| Size of the engine control device | | S2 |
| Width | mm | 55 |
| Height | mm | 160 |
| Depth | mm | 170 |
| Type of mounting | | screw and snap-on mounting |
| mounting position | | With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back |
| Distance, to be maintained, to the ranks assembly | | |
| • upwards | mm | 60 |
| • sideways | mm | 30 |
| • downwards | mm | 40 |
| Altitude of installation site / at a height over sea level | m | 5,000 |
| Cable length / maximum | m | 300 |
| Number of poles / for main current circuit | | 3 |

Electrical connections:

| | | |
|---|--|----------------------------------|
| Design of the electrical connection | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control current circuit | | screw-type terminals |
| Number of NC contacts / for auxiliary contacts | | 0 |
| Number of NO contacts / for auxiliary contacts | | 1 |
| Number of change-over switches / for auxiliary contacts | | 0 |
| Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point | | |
| • solid | | 2x (1.5 ... 16 mm ²) |
| • finely stranded / with conductor end processing | | 0.75 ... 25 mm ² |
| • stranded | | 0.75 ... 35 mm ² |
| Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point | | |
| • solid | | 2x (1.5 ... 16 mm ²) |
| • finely stranded / with conductor end processing | | 1.5 ... 25 mm ² |
| • stranded | | 1.5 ... 35 mm ² |
| Type of the connectable conductor cross-section / for main contacts / for box terminal / when using both clamping points | | |
| • solid | | 2x (1.5 ... 16 mm ²) |
| • finely stranded / with conductor end processing | | 2x (1.5 ... 16 mm ²) |

| | | |
|--|--|--|
| <ul style="list-style-type: none"> • stranded | | 2x (1.5 ... 25 mm ²) |
| Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal <ul style="list-style-type: none"> • when using the back cl • when using the front c • when using both clampi | | 16 ... 2 18 ... 2 2x (16 ... 2) |
| Type of the connectable conductor cross-section <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded / with conductor end processing • for AWG conductors / for auxiliary contacts <ul style="list-style-type: none"> • finely stranded / with wire end proc | | 2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²) 2x (20 ... 14) 2x (20 ... 16) |

Ambient conditions:

| | | |
|---|----|-------------|
| Ambient temperature <ul style="list-style-type: none"> • during operating • during storage | °C | -25 ... +60 |
| | °C | -40 ... +80 |
| Derating temperature | °C | 40 |
| Protection class IP | | IP00 |

Certificates/approvals:

| General Product Approval | | | | EMC | Test Certificates |
|---|---|---|---|---|--|
|  |  |  |  |  | Type Test Certificates/Test Report |
| CCC | CSA | GOST | UL | C-TICK | |

other

[Declaration of Conformity](#)
[other](#)
[Environmental Confirmations](#)

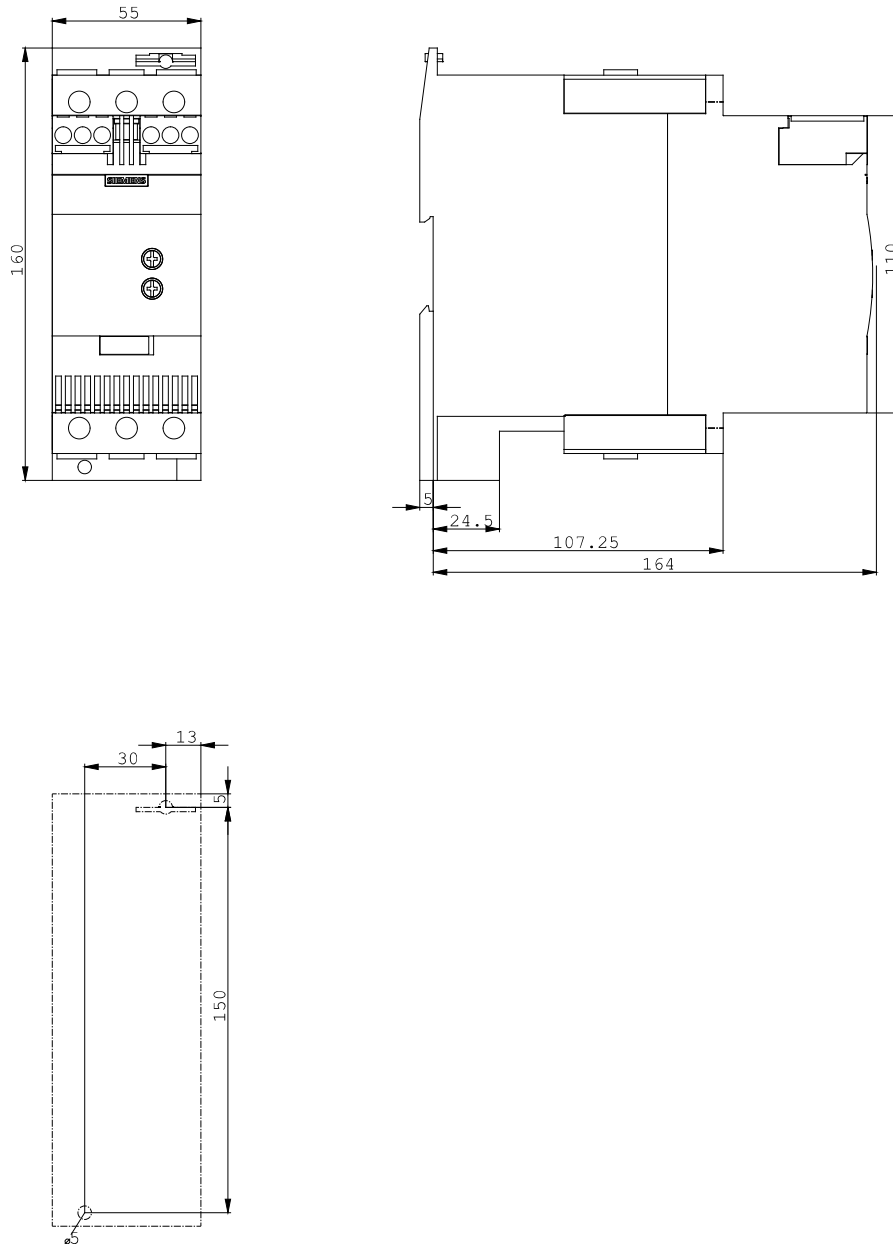
UL/CSA ratings

| | | |
|--|----|----|
| yielded mechanical performance (hp) / for three-phase squirrel cage motors <ul style="list-style-type: none"> • at 220/230 V / at standard circuit <ul style="list-style-type: none"> • at 50 °C / rated v alue • at 460/480 V / at standard circuit <ul style="list-style-type: none"> • at 50 °C / rated v alue | hp | 20 |
| | hp | 40 |

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)
<http://www.siemens.com/industrial-controls/mall>



last change:

May 14, 2012