

OVERLOAD RELAY 9.0...12.5 A FOR MOTOR
 PROTECTION BGR S00,
 CLASS 10 FOR MOUNTING ONTO CONTACTORS MAIN
 CIRCUIT:SCREW TERMINAL

General technical data:

| | | |
|--|-----|------------|
| Product brand name | | SIRIUS |
| Protection class IP / frontal/front side | | IP20 |
| Insulation voltage / with degree of pollution 3 <ul style="list-style-type: none"> • rated value | V | 690 |
| Altitude of installation site / at a height over sea level / maximum | m | 2,000 |
| Ambient temperature <ul style="list-style-type: none"> • during transport • during storage • during the operating phase | °C | -55 ... 80 |
| | °C | -55 ... 80 |
| | °C | -40 ... 70 |
| Relative humidity <ul style="list-style-type: none"> • during the operating phase | / % | 90 |
| Resistance against shock | | 8g / 10 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Real loss power / total / typical | W | 3.9 |
| Item designation <ul style="list-style-type: none"> • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2 | | F |
| | | F |
| Trip class | | CLASS 10 |
| Type of assignment | | 2 |
| Size of overload relay | | S0 |
| Size of the contactor / can be combined <ul style="list-style-type: none"> • company-specific | | S0 |

Main circuit:

| | | |
|--|---|------|
| Number of poles / for main current circuit | | 3 |
| Operating voltage / at 3 AC / rated value <ul style="list-style-type: none"> • maximum | V | 690 |
| Operating current / at AC-3 / at 400 V <ul style="list-style-type: none"> • rated value | A | 12.5 |

| | | |
|---|----|------------|
| Service power / at AC-3 | | |
| • at 400 V / rated value | kW | 5.5 |
| • at 500 V / rated value | kW | 7.5 |
| • at 690 V / rated value | W | 7,500 |
| Adjustable response current | | |
| • of the current-dependent overload release | A | 9 ... 12.5 |
| Operating current / of the fuse link / rated value | A | 35 |

Auxiliary circuit:

| | | |
|---|---|--|
| Contact reliability / of the auxiliary contacts | | < 1 error per 100 million operating cycles |
| Number of NC contacts / for auxiliary contact | | 1 |
| Number of NO contacts / for auxiliary contact | | 1 |
| Number of change-over switches / for auxiliary contact | | 0 |
| Operating current / of the auxiliary contacts | | |
| • at AC-15 | | |
| • at 24 V | A | 3 |
| • at 110 V | A | 3 |
| • at 120 V | A | 3 |
| • at 125 V | A | 3 |
| • at 230 V | A | 2 |
| • at 400 V | A | 1 |
| • at DC-13 | | |
| • at 24 V | A | 1 |
| • at 110 V | A | 0.22 |
| • at 125 V | A | 0.22 |
| • at 220 V | A | 0.11 |

Short-circuit:

| | | |
|--|--|---------------|
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required | | fuse gG: 10 A |
|--|--|---------------|

Installation/mounting/dimensions:

| | | |
|--|----|-----------------|
| built in orientation | | vertical |
| Type of fixing/fixation | | direct mounting |
| Width | mm | 45 |
| Height | mm | 87 |
| Depth | mm | 73 |
| distance, to be maintained, to the ranks assembly | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 6 |

| | | |
|--|----|---|
| • downwards | mm | 6 |
| • sideways | mm | 6 |
| distance, to be maintained, to earthed part | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 6 |
| • downwards | mm | 6 |
| • sideways | mm | 6 |
| distance, to be maintained, conductive elements | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 6 |
| • downwards | mm | 6 |
| • sideways | mm | 6 |

Connections:

| | | |
|--|--|---|
| design of the electrical connection | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control current circuit | | screw-type terminals |
| Product function / removable terminal for auxiliary and control circuit | | No |
| Type of the connectable conductor cross-section | | |
| • for main contacts | | |
| • unifilar | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 10 mm ²) |
| • stranded wire | | 2x (1.0 ... 2.5 mm ²), 2x (2.5 ... 10 mm ²) |
| • stranded wire | | |
| • with conductor end processing | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), 1x 10 mm ² |
| • at AWG-conductors / for main contacts | | 2x (16 ... 12), 2x (14 ... 8) |
| • for auxiliary contacts | | |
| • solid | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • finely stranded | | |
| • with wire end processing | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • for AWG conductors / for auxiliary contacts | | 2x (20 ... 16), 2x (18 ... 14) |

Certificates/approvals:

| | | |
|------------------------------------|--|---------------|
| verification of suitability | | CE / UL / CSA |
| • ATEX | | No |

Safety:

| | | |
|--|---|-------|
| Mean time to failure (MTTF) / with high demand rate | | |
| • according to SN 31920 | a | 2,280 |

| | | |
|---|-----|-------------|
| Proportion of dangerous failures | | |
| • with low demand rate / according to SN 31920 | % | 50 |
| • with high demand rate / according to SN 31920 | % | 50 |
| Failure rate (FIT value) / with low demand rate | | |
| • according to SN 31920 | FIT | 50 |
| T1 value / for proof test interval or service life | | |
| • according to IEC 61508 | a | 20 |
| Protection against electrical shock | | finger-safe |

Further information:

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

<http://www.siemens.com/industrial-controls/catalogs>

Global Industry Mall (Online ordering system)

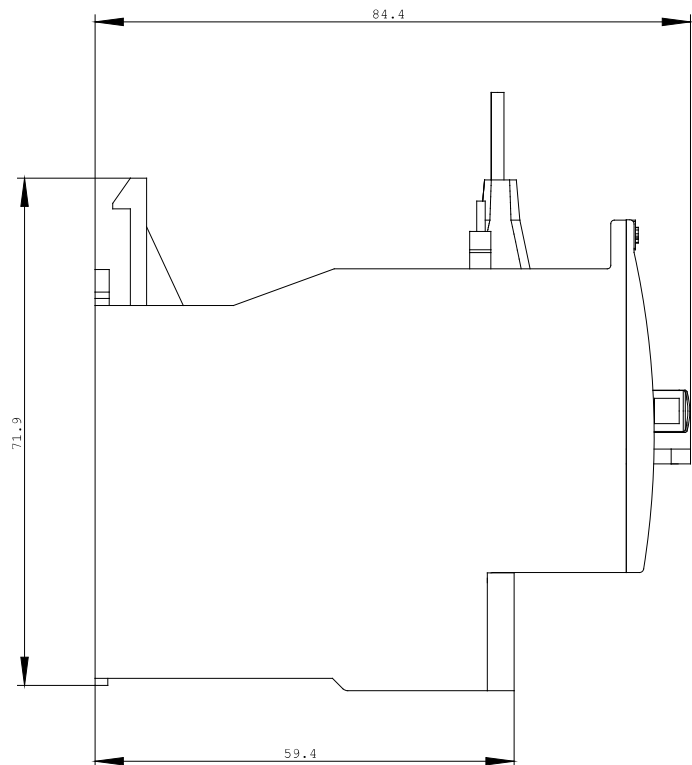
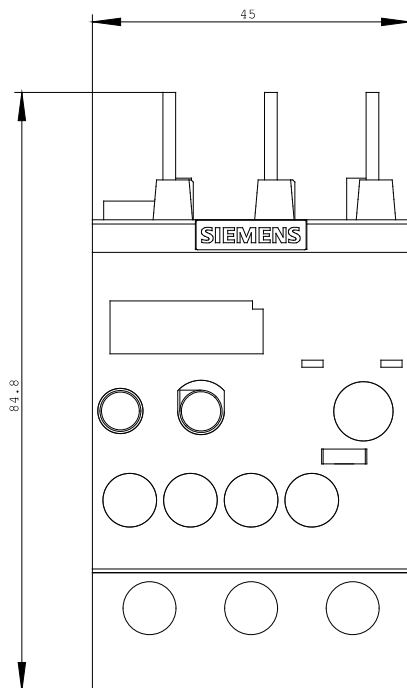
<http://www.siemens.com/industrial-controls/mall>

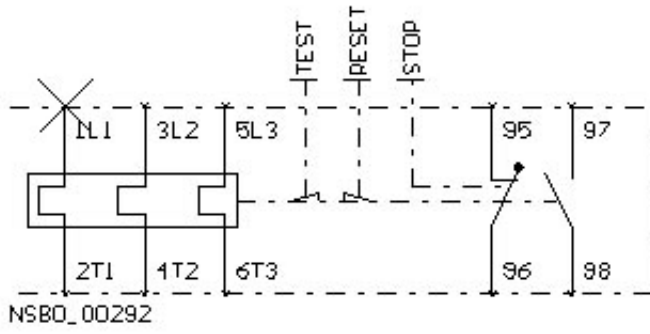
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RU2126-1KB0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2126-1KB0





last change:

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