



CONTACTOR, AC-3 37 KW/400 V, AC 230 V,
50 HZ, 3-POLE, SIZE S3, SCREW CONNECTION

General details:

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------|
| product brand name | | SIRIUS |
| product designation | | power contactor |
| Size of the contactor | | S3 |
| Protection class IP / on the front | | IP20 |
| Degree of pollution | | 3 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| ambient temperature / during the operating phase | °C | -25 ... 60 |
| Active power loss / per conductor / typical | W | 7.7 |
| Item designation | | |
| <ul style="list-style-type: none"> • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | Q K |
| Mechanical operating cycles as operating time | | |
| <ul style="list-style-type: none"> • of the contactor / typical • of the contactor with added auxiliary switch block / typical • of the contactor with added electronics-compatible auxiliary switch block / typical | | 10,000,000 10,000,000 5,000,000 |

Main circuit:

| | | |
|---------------------------------------------------|--|---|
| Number of poles / for main current circuit | | 3 |
|---------------------------------------------------|--|---|

| | | |
|--------------------------------------------------------------------------------------------|----|--------------|
| Number of NC contacts / for main contacts | | 0 |
| Number of NO contacts / for main contacts | | 3 |
| Operating current / at AC-1 / at 400 V / at 40 °C ambient temperature / rated value | A | 120 |
| Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value | A | 100 |
| Operating current | | |
| • at AC-3 / at 400 V / rated value | A | 80 |
| • with 1 current path | | |
| • at DC-1 | | |
| • at 24 V / rated value | A | 100 |
| • at 110 V / rated value | A | 9 |
| • at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 40 |
| • at 110 V / rated value | A | 2.5 |
| • with 2 current paths in series | | |
| • at DC-1 | | |
| • at 24 V / rated value | A | 100 |
| • at 110 V / rated value | A | 100 |
| • at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 100 |
| • at 110 V / rated value | A | 100 |
| • with 3 current paths in series | | |
| • at DC-1 | | |
| • at 24 V / rated value | A | 100 |
| • at 110 V / rated value | A | 100 |
| • at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 100 |
| • at 110 V / rated value | A | 100 |
| Service power | | |
| • at AC-1 / at 400 V / rated value | kW | 66 |
| • at AC-2 / at 400 V / rated value | kW | 37 |
| • at AC-3 | | |
| • at 400 V / rated value | kW | 37 |
| • at 500 V / rated value | kW | 45 |
| • at 690 V / rated value | kW | 55 |
| Control circuit: | | |
| Design of activation of the operating mechanism | | conventional |
| Type of voltage / of the controlled supply voltage | | AC |
| Control supply voltage frequency | | |

| | | |
|-----------------------------------|----|-----|
| • 1 / rated value | Hz | 50 |
| Control supply voltage / 1 | | |
| • at 50 Hz / for AC | | |
| • rated value | V | 230 |

Auxiliary circuit:

| | | |
|--------------------------------------------------------|---|-------------------------------------------------|
| Contact reliability / of the auxiliary contacts | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NC contacts / for auxiliary contacts | | |
| • instantaneous switching | | 0 |
| • lagging switching | | 0 |
| Number of NO contacts / for auxiliary contacts | | |
| • instantaneous switching | | 0 |
| • leading switching | | 0 |
| Operating current / of the auxiliary contacts | | |
| • at AC-12 / maximum | A | 10 |
| • at AC-15 | | |
| • at 230 V | A | 6 |
| • at 400 V | A | 3 |
| • at DC-12 | | |
| • at 60 V | A | 6 |
| • at 110 V | A | 3 |
| • at 220 V | A | 1 |
| • at DC-13 | | |
| • at 24 V | A | 10 |
| • at 60 V | A | 2 |
| • at 110 V | A | 1 |
| • at 220 V | A | 0.3 |

Short-circuit:

| | | |
|-------------------------------------------------------------------|--|-------------------|
| Design of the fuse link | | |
| • for short-circuit protection of the auxiliary switch / required | | fuse gL/gG: 10 A |
| • for short-circuit protection of the main circuit | | |
| • with type of assignment 1 / required | | fuse gL/gG: 250 A |
| • at type of coordination 2 / required | | fuse gL/gG: 160 A |

Installation/mounting/dimensions:

| | | |
|----------------------------|----|------------------------------------------------------------------------|
| Type of mounting | | screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail |
| series installation | | Yes |
| Width | mm | 70 |
| Height | mm | 146 |

| | | |
|--------------------------------------------------------|----|-----|
| Depth | mm | 139 |
| Distance, to be maintained, to earthed part / sideways | mm | 6 |

Connection type:

Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals
screw-type terminals

Certificates/approvals:

General Product Approval

Functional Safety / Safety of Machinery

[CQC](#)



[KETI](#)

[ROSTEST](#)



[SUVA](#)

Test Certificates

[Manufacturer](#)

Shipping Approval

[ABS](#)



other

[Manufacturer](#)

[other](#)

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>

CAX-Online-Generator

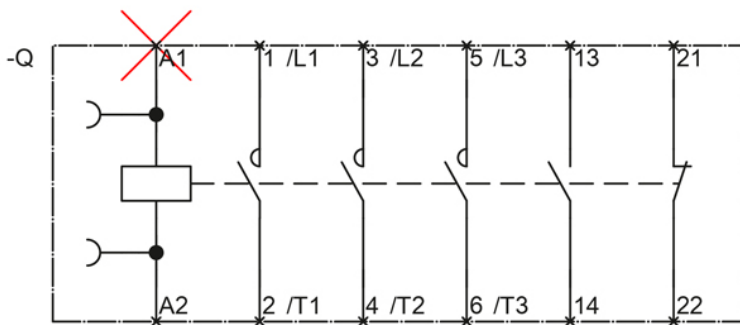
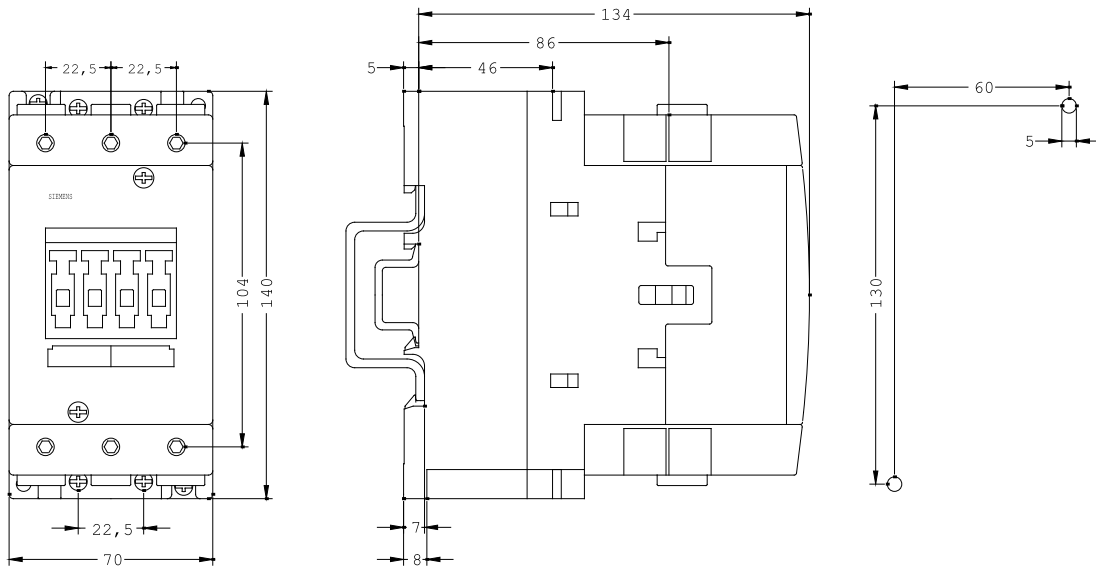
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1045-1AP00/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1045-1AP00



last change:

Apr 4, 2011