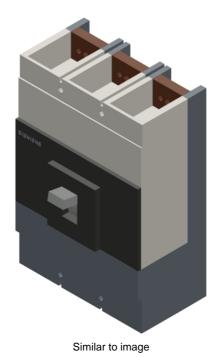
Product data sheet



CIRCUIT-BREAKER VL 630H HIGH BREAKING CAPACITY ICU=70KA / 415 V AC 3 POLE,
LINE PROTECTION OVERCURRENT RELEASE TM,
LI IN=400A, RATED CURRENT IR=315-400A,
OVERLOAD II=2000-4000A, SHORT CIRCUIT

| General technical data: | | |
|---|-----|-------------------|
| Number of poles | | 3 |
| Design of the overcurrent release | | TM |
| Acceptability for application | | system protection |
| Electrical operating cycles as operating time / typical | | 5,000 |
| Mechanical operating cycles as operating time / typical | | 10,000 |
| Active power loss / maximum | W | 230 |
| Product component | | |
| auxiliary switch | | No |
| Voltage trigger | | No |
| undervoltage release mechanism | | No |
| undervoltage release with leading contact | | No |
| Product function | | |
| of the thermal overload release | | adjustable |
| ground-fault protection | | No |
| • for zero conductors / short-circuit and overload protection | | No |
| overload protection | | Yes |
| Operating cycles / maximum | 1/s | 60 |
| Protection class IP | | IP20 |

| Ambient temperature • during operating • minimum • during storage • minimum • during storage • minimum • maximum • maximum • 1°C 40 • 70 * 40 • 40 • 50 Main circuit: Insulation voltage / for AC / rated value Operating frequency • 1 / rated value • 1 / rated value • 2 / rated value • 1 / 2 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 | Protective function of the overcurrent release | | LI |
|--|--|----|-----|
| | Impulse voltage resistance / rated value | kV | 8 |
| • minimum | Ambient temperature | | |
| • maximum • during storage • minimum • maximum • according frequency • - 1 / rated value • Hz 50 • Main circuit: ### 50 ### | during operating | | |
| turning storage minimum maximum Main circuitt: Insulation voltage / for AC / rated value Operating frequency - 1 / rated value + 2 / rated value - 2 / rated value turn designation - according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 - according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 - according to DIN EN 61346-2 Operating voltage - for main current circuit - at 50 Hz / for AC - maximum - at 60 Hz / for AC - maximum - voltage voltage - for CC - maximum - voltage voltage - for CC - maximum - voltage voltage - for CC - maximum - voltage voltage - for AC - maximum - voltage voltage - voltage voltage - for CC - for AC - maximum - voltage voltage voltage voltage voltage - voltage voltage voltage - voltage voltage voltage - voltage | • minimum | °C | -25 |
| • minimum °C -40 • maximum °C 50 Main circuit: Insulation voltage / for AC / rated value V 800 Operating frequency • 1 / rated value Hz 50 • 2 / rated value Hz 60 Item designation • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Q • according to DIN EN 61346-2 Q Q Operating voltage • for main current circuit • at 50 Hz / for AC • maximum V 690 • 690 </td <td>• maximum</td> <td>°C</td> <td>70</td> | • maximum | °C | 70 |
| * maximum | during storage | | |
| Main circuit: Insulation voltage / for AC / rated value Operating frequency - 1 / rated value - 2 / rated value - 2 / rated value - 2 / rated value - according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 - according to DIN EN 61346-2 Operating voltage - 1 for main current circuit - at 50 Hz / for AC - maximum - at 60 Hz / for AC - maximum - to ED - maximum - to ED - maximum - to C / rated value - at 50 °C / rated value - at 50 °C / rated value - at 60 °C / rated valu | • minimum | °C | -40 |
| Insulation voltage / for AC / rated value Operating frequency -1 / rated value -2 / rated value Hz 50 -2 / rated value Hz 60 Item designation - according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 - according to DIN EN 61346-2 Operating voltage - for main current circuit - at 50 Hz / for AC - maximum - at 60 Hz / for AC - maximum - for DC - maximum - for DC - maximum - to 40 °C / rated value - at 40 °C / rated value - at 60 °C / rated value - at 60 °C / rated value - at 60 °C / rated value - at 70 °C / rated value | • maximum | °C | 50 |
| Operating frequency | Main circuit: | | |
| - 1 / rated value | Insulation voltage / for AC / rated value | V | 800 |
| - 2 / rated value Item designation - according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 - according to DIN EN 61346-2 Operating voltage - for main current circuit - at 50 Hz / for AC - maximum - tat 60 Hz / for AC - maximum - for DC - maximum - tor DC - maximum - at 40 °C / rated value - at 50 °C / rated value - at 50 °C / rated value - at 60 °C / rated value - at 70 °C / rated value - at 70 °C / rated value - A | Operating frequency | | |
| Item designation * according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 * according to DIN EN 61346-2 Operating voltage * for main current circuit * at 50 Hz / for AC * maximum * at 60 Hz / for AC * maximum * for DC * maximum * for DC * maximum * at 40 °C / rated value * at 40 °C / rated value * at 50 °C / rated value * at 60 °C / rated value * at 60 °C / rated value * at 70 °C / rated value * at 70 °C / rated value * A | • 1 / rated value | Hz | 50 |
| according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 according to DIN EN 61346-2 Operating voltage • for main current circuit • at 50 Hz / for AC • maximum • at 60 Hz / for AC • maximum • for DC • maximum • tof DC • maximum • at 40 °C / rated value • at 50 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 70 °C / rated value • at 70 °C / rated value Operating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | • 2 / rated value | Hz | 60 |
| to IEC 750 - according to DIN EN 61346-2 Operating voltage - for main current circuit - at 50 Hz / for AC - maximum - at 60 Hz / for AC - maximum - for DC - maximum - to Y - 500 Operating current - at 40 °C / rated value - at 50 °C / rated value - at 60 °C / rated value - at 60 °C / rated value - at 70 °C / rated value - at 70 °C / rated value - A - A - A - A - A - A - A - | Item designation | | |
| Operating voltage • for main current circuit • at 50 Hz / for AC • maximum • at 60 Hz / for AC • maximum • for DC • maximum • tor DC • maximum • at 40 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 70 °C / rated va | | | Q |
| • for main current circuit • at 50 Hz / for AC • maximum • at 60 Hz / for AC • maximum • for DC • maximum • tor DC • maximum • at 40 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • A 372 • at 70 °C / rated value • A 344 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Auxillary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | according to DIN EN 61346-2 | | Q |
| * at 50 Hz / for AC * maximum * at 60 Hz / for AC * maximum * for DC * maximum * v | Operating voltage | | |
| • maximum • at 60 Hz / for AC • maximum • for DC • maximum • at 40 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 70 °C / rated value A 400 Continuous current / rated value A 372 • at 70 °C / rated value A 400 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | for main current circuit | | |
| at 60 Hz / for AC maximum for DC maximum V 500 Operating current at 40 °C / rated value at 50 °C / rated value at 60 °C / rated value at 70 °C / rated value A 372 at 70 °C / rated value A 344 Continuous current / rated value Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | • at 50 Hz / for AC | | |
| • maximum • for DC • maximum V 500 Operating current • at 40 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 70 °C / rated value • A 344 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | • maximum | V | 690 |
| • for DC • maximum V 500 Operating current • at 40 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 70 °C / rated value • at 70 °C / rated value A 372 • at 70 °C / rated value A 344 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | • at 60 Hz / for AC | | |
| • maximum Operating current • at 40 °C / rated value • at 50 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 70 °C / rated value A 344 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | • maximum | V | 690 |
| Operating current • at 40 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 70 °C / rated value A 344 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | • for DC | | |
| at 40 °C / rated value at 50 °C / rated value at 60 °C / rated value at 70 °C / rated value A 372 at 70 °C / rated value A 400 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Current A 400 Continuous current / rated value A 400 Continuous current / rated value of the continuous of the continuous of the continuous of the current Auxiliary circuit: Number of NC contacts / for auxiliary contacts O Number of NO contacts / for auxiliary contacts O Short-circuit: | • maximum | V | 500 |
| * at 50 °C / rated value * at 60 °C / rated value * at 70 °C / rated value * at 70 °C / rated value A 344 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | Operating current | | |
| • at 60 °C / rated value • at 70 °C / rated value A 344 Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current Continuous current Continuous current / rated value A 400 Auxiliary circuit: Number of NC contacts / for auxiliary contacts O Number of NO contacts / for auxiliary contacts O Short-circuit: | • at 40 °C / rated value | Α | 400 |
| • at 70 °C / rated value Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current C 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Short-circuit: | • at 50 °C / rated value | Α | 400 |
| Continuous current / rated value A 400 Derating temperature / for the rated value of the continuous current **C 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 50 Short-circuit: | • at 60 °C / rated value | Α | 372 |
| Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Short-circuit: | • at 70 °C / rated value | Α | 344 |
| Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Short-circuit: | Continuous current / rated value | Α | 400 |
| Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Short-circuit: | Derating temperature / for the rated value of the continuous current | °C | 50 |
| Number of NO contacts / for auxiliary contacts 0 Short-circuit: | Auxiliary circuit: | | |
| Short-circuit: | Number of NC contacts / for auxiliary contacts | | 0 |
| | Number of NO contacts / for auxiliary contacts | | 0 |
| Adjustable response current | Short-circuit: | | |
| | Adjustable response current | | |

| of the current-dependent overload release | | |
|--|----|-------|
| • initial value | Α | 320 |
| • final value | Α | 400 |
| • of the non-delayed short-circuit release | | |
| • initial value | Α | 2,000 |
| • final value | Α | 4,000 |
| Breaking capacity limit short-circuit current (lcu) / at 415 V / rated value | kA | 70 |

| Installation/mounting/dimensions: | | |
|-----------------------------------|----|----------------|
| Type of mounting | | fixed mounting |
| Height | mm | 279.5 |
| Width | mm | 190 |
| Depth | mm | 138.5 |

| Connections: | |
|---|----------------------|
| Arrangement of electrical connectors / for main current circuit | front side |
| Design of the electrical connection / for main current circuit | screw-type terminals |

Certificates/approvals:

Further information:

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

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online-Bestellsystem)

http://www.siemens.com/lowvoltage/mall

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

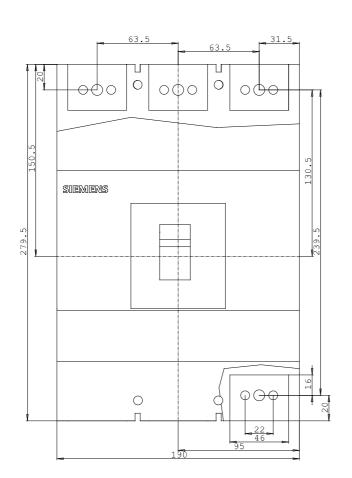
http://support.automation.siemens.com/WW/view/en/3VL5740-2DC36-0AA0/all

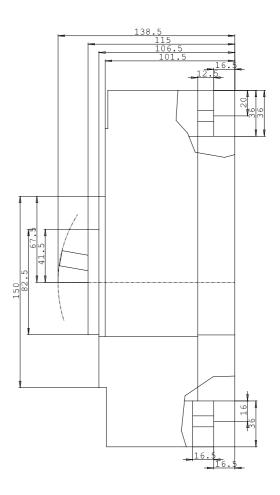
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL5740-2DC36-0AA0}}$

CAx-Online-Generator

http://www.siemens.com/cax





last change: Apr 9, 2012