



symbolic image

UK Technical Data 05

HS 40-**
Coil voltage 230 V AC
Rating I_{th} = 40A

Function

Installation contactors for the remote control of distribution loads associated with domestic and similar installations. Coil supply 230 V AC suitable for continuous operation (100% duty cycle). Mains supply single phase 230V or three phase < 400 V AC.

Features

Wide range of different contact configurations, high electrical and mechanical endurance, extremely quiet for standard AC operated coils

Mounting

Quick fastening to mounting rail, any installation position

Applications

Installation contactors are frequently used in residential and purpose-built buildings for the control of standard distribution loads such as incandescent lamps, fluorescent lamps, transformers for halogen low-voltage lamps, mercury vapour high-pressure lamps (HQL, HPL), metal halide lamps (HQI, HPI), sodium vapour, low and high-pressure lamps, storage heaters or small dol motors.

Refer to the contactor selection data for specific applications and ratings - UK Technical Data 07 - HS Contactor Selection Data

Notes

For ambient temperatures above 40 °C surrounding the contactor, we recommend leaving a 1/2 module space between adjacent devices. Contactors produce supply transients when the coil is disconnected from the supply, good installation practice requires the use of transient suppression devices to protect any associated equipment such as electronic timers and meters etc. Check the associated equipment installation instructions for any recommendations.

Accessories

Auxiliary Switches HSH, Spacers RD

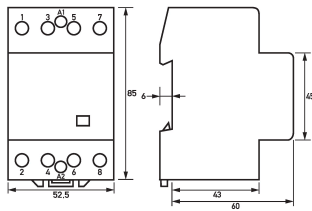
Technical Data

| Technical Data | HS 40-**/230AC |
|------------------------------------|-------------------|
| Series | HS 3 |
| | Control input |
| Rated voltage (AC) | 230 V |
| Rated frequency | 50 Hz/60 Hz |
| Rated power (switch on) | 33 VA ... 45 VA |
| rated power (retaining) | 6 VA ... 8 VA |
| | Load circuit |
| Specification | Switching contact |
| min. Contact opening | 3 mm |
| contact assignment | 4 NO |
| Rated voltage (AC) | 400 V |
| Rated current I _{th} (AC) | 40 A |

| Technical Data | HS 40-*/230AC |
|---|--|
| Rated insulation voltage | 440 V |
| Switching frequency | max. 600 / h |
| Allowed utilization category | See UK Technical Data 07 - HS Contactor Selection Data |
| Power dissipation per pole AC-1 | 3 W |
| Overtoltage class | I, II, III |
| rated short-circuit current "r" | 3 kA |
| rated short-circuit current "Iq" | 10 kA |
| Maximum fuse rating | 63 A gG |
| max. Rated power AC-1 230 V | 9 kW |
| max. Rated power AC-1 400 V | 27.5 kW |
| Rated voltage AC-3 one-phase | 230 V |
| Rated voltage AC-3 3-phase | 230 V, 400 V |
| max. Rated current AC-3 | 27 A |
| max. Rated power AC-3 400 V | 12.5 kW |
| max. rated power glow lamps | 6000 VA |
| max. Rated power fluorescent lamp compensated | 2805 VA |
| max. Rated power fluorescent lamp not compensated | 2975 VA |
| max. rated power fluorescent lamps duo-switching | 5280 VA |
| contact endurance AC-1 | 100000 switching cycles |
| contact endurance AC-3 | 150000 switching cycles |
| Duration of light arcs | 10 ms ... 15 ms |
| Switching delay, open | 6 ms ... 13 ms |
| Switching delay, close | 11 ms ... 15 ms |
| quiet design | false |
| Screw-type terminal top and bottom (Load circuit) | |
| Allowed types of wires | Aluminium conductors, Copper conductors, massive conductors, flexible conductors |
| Connection C1 Maximum number of conductors per terminal | 1 |
| Cross section solid | 1-wire: 2.5 mm ² ... 25 mm ² |
| Connecting capacity flexible | 1-wire: 2.5 mm ² ... 16 mm ² |
| Cross section flexible with ferrule | 2.5 mm ² ... 16 mm ² |
| Cross section stranded | 1-wire: 2.5 mm ² ... 25 mm ² |
| Tightening torque | 0.6 Nm ... 1.2 Nm |
| Screw-type terminal top and bottom (Control input) | |
| Allowed types of wires | Aluminium conductors, Copper conductors, massive conductors, flexible conductors |
| Connection C2 Maximum number of conductors per terminal | 1 |
| Cross section solid | 1-wire: 0.75 mm ² ... 2.5 mm ² |
| Connecting capacity flexible | 1-wire: 0.5 mm ² ... 2.5 mm ² |
| Cross section flexible with ferrule | 0.5 mm ² ... 1.5 mm ² |
| Cross section stranded | 1-wire: 0.75 mm ² ... 2.5 mm ² |
| General data | |
| Duty cycle | continuous operation (Duty cycle ≤ 100 %) |
| Operating position | any |
| Mechanical endurance | min. 10 · 10 ⁶ switching cycles |
| Electrical endurance | min. 1 · 10 ⁶ switching cycles |

| Technical Data | HS 40-*/*/230AC |
|---|--------------------------------------|
| Ambient temperature | 60°C when installed individually |
| Housing type | Distributor housing |
| Mounting type | Mounting rail (35 mm) |
| Housing material | Thermoplastic resin |
| Protection class | IP20 |
| Width | 52.5 mm |
| Height | 85 mm |
| Depth | 65 mm |
| Installation depth | 60 mm |
| Width (modules) | 3 |
| Design requirements/Standards | EN 60715, EN 60947-4-1, VDE 0660-102 |
| Degree of pollution according to EN 60664 | 3 |

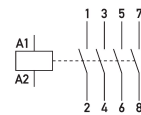
Dimensions



Dimensional drawing Group view

STEP file

Wiring example



Wiring diagram