



symbolic image

## UK Technical Data 03

**HS 20- \*\***  
**Coil voltage 230 V AC**  
**Rating Ith = 20A**

### 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 (HQL, 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

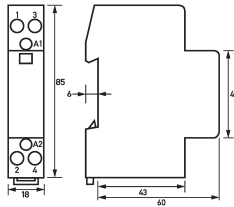
### Technical Data

Technical Data	HS 20-**/230AC
Series	HS 1
	Control input
Rated voltage (AC)	230 V
Rated frequency	50 Hz/60 Hz
Rated power (switch on)	7 VA ... 9 VA
rated power (retaining)	2.2 VA ... 4.2 VA
	Load circuit
Specification	Switching contact
min. Contact opening	3 mm
contact assignment	2 NO
Rated voltage (AC)	400 V
Rated current Ith (AC)	20 A

Technical Data	HS 20-*/230AC
Rated insulation voltage	440 V
Switching frequency	max. 300 / h
Allowed utilization category	See UK Technical Data 07 - HS Contactor Selection Data
Power dissipation per pole AC-1	2 W
Overtoltage class	I, II, III
rated short-circuit current "r"	3 kA
rated short-circuit current "Iq"	3 kA
Maximum fuse rating	35 A gG
max. Rated power AC-1 230 V	4.6 kW
Rated voltage AC-3 one-phase	230 V
max. Rated power AC-3 230 V	1.1 kW
max. rated power glow lamps	2160 VA
max. Rated power fluorescent lamp compensated	1020 VA
max. Rated power fluorescent lamp not compensated	935 VA
max. rated power fluorescent lamps duo-switching	2320 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 ... 12 ms
Switching delay, close	7 ms ... 16 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: 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Connecting capacity flexible	1-wire: 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section flexible with ferrule	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section stranded	1-wire: 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
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 <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connecting capacity flexible	1-wire: 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section flexible with ferrule	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section stranded	1-wire: 0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	General data
Duty cycle	continuous operation (Duty cycle ≤ 100 %)
Operating position	any
Mechanical endurance	min. 10 · 10 <sup>6</sup> switching cycles
Electrical endurance	min. 1 · 10 <sup>6</sup> switching cycles
Ambient temperature	60°C when installed individually
Housing type	Distributor housing
Mounting type	Mounting rail (35 mm)

Technical Data	HS 20-*/230AC
Housing material	Thermoplastic resin
Protection class	IP20
Width	18 mm
Height	85 mm
Depth	65 mm
Installation depth	60 mm
Width (modules)	1
Design requirements/Standards	EN 60715, EN 60947-4-1, VDE 0660-102
Degree of pollution according to EN 60664	3

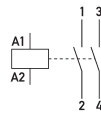
**Dimensions**



Dimensional drawing Group view

STEP file

**Wiring example**



Wiring diagram