

### DATA SHEET

installation contactors HS 3-230AC/40-40 with coil voltage 230 V AC Article number 09980414



Internetlink

#### **Function**

Installation contactors are electromagnetically operated switches. If a control current flows through the magnetic coil, the main circuit closes the magnetic energiser. As long as the control current flows, the switch-on position is maintained. If the control current is interrupted, a spring forces the disconnection o return of the contacts to their original position. This design means that contactors ensure a galvanic separation between the control circuit and the switched circuit whilst simultaneously allowing high currents to be switched. Installation contactors are only designed in a limited way for release and must be protected against overload and short-circuits by upstream protective devices. Installation contactors in the HS family for installation in distribution boards are extremely quiet and have very low-noise switching processes, are highly versatile thanks to their utilisation categories, and have prolonged mechanical and electrical service life. The magnetic coil in this family is suitable for continuous operation (100 % duty cycle). This low-noise design is suitable for use in workshop and industrial applications.

#### Features

wide range of different contacts, high electrical and mechanical endurance, suitable auxiliary switch and seal cap available

#### Mounting

quick fastening to mounting rail, any installation position

#### **Applications**

Installation contactors can be used in a variety of ways. The low-noise version is suitable for industry and workshops, whilst the no-noise version is suitable for hotels, offices and residential areas. They take on the switching of 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 and drives (motors).

#### Notes

The names of devices in this family contain both the rated current (first pair of digits) and the contact variant (last pair of digits): For example, a HS 25-31 has a rated current of 25 A, three NOCs and one NCC, At ambient temperatures of 40°C and higher, using the DHDS spacer is recommended, The HS 1 contact is 1 module width wide, and thus the HS 2 and HS 3 are 2 and 3 module widths wide.

### Accessories

spacers DHDS, auxiliary switches HSH, seal caps HSP

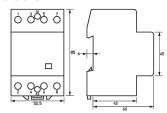
### Technical Data

Technical Data	HS 3-230AC/40-40
Series	HS <sub>3</sub>
	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 (AC)	40 A

HS 3-230AC/40-40
440 V
max. 600 / h
·
AC-1, AC-2, AC-3
3 W
I, II, III
3 kA
10 kA
230 V
9 kW
27.5 kW
230 V
230 V, 400 V
27 A
12.5 kW
6000 VA
2805 VA
2975 VA
5280 VA
100000 switching cycles
150000 switching cycles
10 ms 15 ms
6 ms 13 ms
11 ms 15 ms
false
screw-type terminal M5 top and bottom (load circuit)
aluminium conductor, copper conductor, solid conductor, flexible conductor
1
1-wire: 2.5 mm² 25 mm²
1-wire: 2.5 mm² 16 mm²
2.5 mm <sup>2</sup> 16 mm <sup>2</sup>
1-wire: 2.5 mm² 25 mm²
2.5 Nm 3 Nm
screw-type terminal M <sub>3</sub> top and bottom (control input)
aluminium conductor, copper conductor, solid conductor, flexible conductor
1
1-wire: 0.75 mm <sup>2</sup> 2.5 mm <sup>2</sup>
1-wire: 0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>
0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup>
1-wire: 0.75 mm² 2.5 mm²
0.6 Nm 1.2 Nm
General data
General data
continuous operation (Duty cycle ≤ 100 %)  optional

Technical Data	HS 3-230AC/40-40
Electrical endurance	min. 1 · 10 <sup>6</sup> switching cycles
Ambient temperature	6o°C when installed individually
Housing type	distribution board housing
Installation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP <sub>20</sub>
Width	52.5 mm
Height	85 mm
Depth	65 mm
Installation depth	6o mm
Module widths	3
Design requirements/Standards	EN 60715, EN 60947-4-1, VDE 0660-102
Degree of pollution according to EN 60664	3

# Dimensions



# Wiring example



Wiring diagram

Dimensional drawing Group view

STEP file