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DATA SHEET

installation contactors HS 3-230AC/40-22 with coil voltage 230 V AC Article number 09980429



Function

Installation contactors are electromagnetically operated switches. When a control current flows through the magnetic coil, the magnetic pull closes a main circuit. The switch-on position is maintained as long as the control current is flowing. If the control current is interrupted, a spring forces the contacts to return to their initial position. This construction makes it possible for contactors to ensure galvanic isolation between the control circuit and the switched circuit whilst simultaneously allowing high currents to be switched. Installation contactors are only partly intended for disconnection from the mains, they must be protected against overload and short circuits by upstream protective devices. The HS low-noise version for installation in distributor boards are characterised by low-noise switching operations, by versatility due to their utilization categories and by their long mechanical and electrical service life. The magnetic coil of this series is suitable for continuous operation (100% duty cycle). This low-noise version is suitable for use in industry and workshops. 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 nonoise 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/40-22	
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	2 NC/2 NO	
Rated voltage (AC)	400 V	
Rated current (AC)	40 A	

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HS 3-230AC/40-22
440 V
max. 600 / h
AC-1, AC-2, AC-3
3 W
I, II, III
3 kA
10 KA
230 V
9 kW
230 V
6000 VA
2805 VA
2975 VA
5280 VA
420 A
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 mm ² 25 mm ²
1-wire: 2.5 mm ² 16 mm ²
2.5 mm ² 16 mm ²
1-wire: 2.5 mm ² 25 mm ²
2.5 Nm 3 Nm
screw-type terminal M3 top and bottom (control input)
aluminium conductor, copper conductor, solid conductor, flexible conductor
1
1-wire: 0.75 mm ² 2.5 mm ²
1-wire: 0.5 mm ² 2.5 mm ²
0.5 mm ² 1.5 mm ²
1-wire: 0.75 mm ² 2.5 mm ²
0.6 Nm 1.2 Nm
General data
continuous operation (Duty cycle < 100 %)
continuous operation (Duty cycle \leq 100 %)
optional
optional min. 10 · 10 ⁶ switching cycles
optional

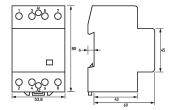
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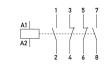
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Technical Data	HS 3-230AC/40-22
Housing type	distribution board housing
Installation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20
Width	53.8 mm
Height	85 mm
Depth	65 mm
Installation depth	60 mm
Module widths	3
Design requirements/Standards	EN 60715, EN 60947-4-1, VDE 0660-102
Degree of pollution	3

Dimensions







Wiring diagram

Dimensional drawing Group view