

DATA SHEET

installation contactors
HS 2-230AC/25-40
with coil voltage 230 V AC
Article number 09980408



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, installation position: see drawing

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

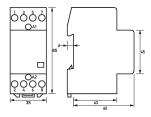
Technical Data

Technical Data	HS 2-230AC/25-40
Series	HS 2
	control input
Rated voltage (AC)	230 V
Rated frequency	50 Hz/60 Hz
Rated power (switch on)	20 VA 25 VA
Rated power (retaining)	4 VA 6 VA
	load circuit
Specification	switching contact
min. Contact opening	3 mm
Contact assignment	4 NO
Rated voltage (AC)	400 V
Rated current (AC)	25 A

Technical Data	HS 2-230AC/25-40	
Rated insulation voltage	440 V	
Switching frequency	max. 300 / h	
Allowed utilization category	AC-1, AC-2, AC-3	
Power dissipation per pole AC-1	2 W	
Overvoltage class	I, II, III	
Rated short-circuit current "r"	3 kA	
Rated short-circuit current "Iq"	10 kA	
Rated voltage AC-1 (fix)	230 V	
max. Rated power AC-1 230 V	5.7 kW	
max. Rated power AC-1 400 V	17 kW	
Rated voltage AC-3 one-phase	230 V	
(fixed)		
Rated voltage AC-3 3-phase (fix)	230 V, 400 V	
max. Rated current AC-3	9 A	
max. Rated power AC-3 400 V	4 kW	
max. Rated power glow lamps	3000 VA	
max. Rated power fluorescent lamp compensated	1360 VA	
max. Rated power fluorescent lamp not compensated	1190 VA	
max. Rated power fluorescent lamps duo-switching	2552 VA	
max. Inrush current LED	233 A	
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	4 ms 8 ms	
Switching delay, close	9 ms 15 ms	
quiet design	false	
quiet design	screw-type terminal M3.5 top and bottom (load circuit)	
Allowed types of wires	aluminium conductor, copper conductor, solid conductor, flexible conductor	
Connection C1 Maximum number of conductors per terminal	1	
Cross section solid	1-wire: 1.5 mm ² 10 mm ²	
Connecting capacity flexible	1-wire: 1.5 mm² 6 mm²	
Cross section flexible with ferrule	1.5 mm² 6 mm²	
Cross section stranded	1-wire: 1.5 mm ² 10 mm ²	
Tightening torque	o.8 Nm 1.4 Nm	
	screw-type terminal M ₃ top and bottom (control input)	
Allowed types of wires	aluminium conductor, copper conductor, solid conductor, flexible conductor	
Connection C ₂ 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 mm² 1.5 mm²	
Cross section stranded	1-wire: 0.75 mm² 2.5 mm²	
Tightening torque	0.6 Nm 1.2 Nm	
rightening torque	General data	
Duty cycle	continuous operation (Duty cycle ≤ 100 %)	
Operating position	optional	
operating position	ομιοπαι	

Technical Data HS 2-230AC/25-40 Mechanical endurance Electrical endurance min. 1 · 10 ⁶ switching cycles min. 1 · 10 ⁶ switching cycles Ambient temperature -40 °C 40 °C Ambient temperature Max. 60°C with spacer Housing type distribution board housing Installation type Mounting rail (35 mm)	
Electrical endurance min. 1 · 106 switching cycles Ambient temperature -40 °C 40 °C Ambient temperature Max. 60°C with spacer Housing type distribution board housing	
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Ambient temperature Max. 60°C with spacer Housing type distribution board housing	5
Housing type distribution board housing	
371	
Installation type Mounting rail (35 mm)	
Housing material thermoplastic	
Protection class IP20	
Width 35 mm	
Height 85 mm	
Depth 65 mm	
Installation depth 60 mm	
Module widths 2	
Weight 0.212 kg	
Design requirements/Standards EN 60715, EN 60947-4-1, VDE 06	50-102
Degree of pollution 3	

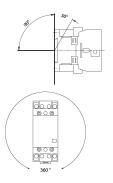
Dimensions



Wiring example



Wiring diagram



Dimensional drawing Group view

Drawing Installation position