



DATA SHEET
installation contactors
HS 2-230AC/63-20S
with coil voltage 230 V AC
Article number 09980446



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 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 (HQL, 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/63-20S
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	2 NO
Rated voltage (AC)	400 V
Rated current (AC)	63 A

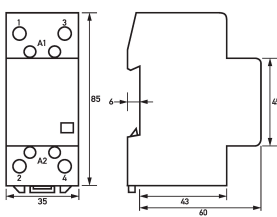
Subject to technical changes

Technical Data	HS 2-230AC/63-20S
Rated insulation voltage	440 V
Switching frequency	max. 600 / h
Allowed utilization category	AC-1, AC-2, AC-3
Power dissipation per pole AC-1	7 W
Overtoltage class	I, II, III
rated short-circuit current "r"	3 kA
rated short-circuit current "Iq"	3 kA
Rated voltage AC-1 (fix)	230 V
max. Rated power AC-1 230 V	14.3 kW
Rated voltage AC-3 one-phase (fixed)	230 V
max. rated power glow lamps	8000 VA
max. Rated power fluorescent lamp compensated	3740 VA
max. Rated power fluorescent lamp not compensated	5100 VA
max. rated power fluorescent lamps duo-switching	8120 VA
max. inrush current LED	565 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	6 ms ... 13 ms
Switching delay, close	11 ms ... 15 ms
quiet design	false
screw-type terminal M5 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: 2.5 mm ² ... 25 mm ²
Connecting capacity flexible	1-wire: 2.5 mm ² ... 16 mm ²
Cross section stranded	1-wire: 2.5 mm ² ... 25 mm ²
Tightening torque	2.5 Nm ... 3 Nm
screw-type terminal M3 top and bottom (control input)	
Allowed types of wires	aluminium conductor, copper conductor, solid conductor, flexible conductor
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
Tightening torque	0.6 Nm ... 1.2 Nm
General data	
Duty cycle	continuous operation (Duty cycle ≤ 100 %)
Operating position	optional
Mechanical endurance	min. 10 · 10 ⁶ switching cycles
Electrical endurance	min. 1 · 10 ⁶ switching cycles
Ambient temperature	-40 °C ... 40 °C
Ambient temperature	Max. 60°C with spacer
Housing type	distribution board housing

Subject to technical changes

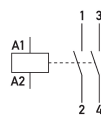
Technical Data	HS 2-230AC/63-20S
Installation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20
Width	35 mm
Height	85 mm
Depth	65 mm
Installation depth	60 mm
Module widths	2
Design requirements/Standards	EN 60715, EN 60947-4-1, VDE 0660-102
Degree of pollution	3

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram