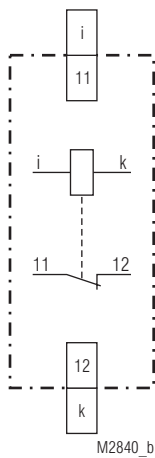




0222118

- According to IEC/EN 60 669
- Reduces the size of the wire cross-sections required for large electricity consumers
- Cost savings
- Width 17.5 mm

Circuit Diagram



Approvals and Marking



Applications

The priority relay IK 8715 is used in the installation of electrical systems when the cross-sections of the wires are too small to allow two large electricity consumers to be operated at the same time. This is frequently the case in residential electrical systems, e.g. when a flow heater is supposed to be installed to supply hot water in addition to electric storage heaters. If IK 8715 is used, the electrical connection does not have to be dimensioned for the simultaneous operation of both large consumers. The connection fee that has to be paid on the basis of the maximum power that is to be supplied (German BTO regulations § 6, Paragraph 4) can also be reduced. When the equipment that needs to be operated for short periods of time is to be turned on (e.g. a flow heater), then the priority relay switches the consumers off that are operated for longer periods of time (e.g. night storage heaters).

Notes

The unit has captive terminal screws and a terminal cover that can be lead sealed.

Technical Data

Input

	IK 8715			IK 8715/003
Nominal current range (A):	6 ... 20	13 ... 40	23 ... 54	6 ... 40
corresp. at AC 230 V (kW):	1.5 ... 5	3 ... 9	5 ... 12	1.5 ... 9
corresp. at 3 AC 400 V (kW):	4.5 ... 15	9 ... 27	15 ... 36	4.5 ... 27
Nominal consumption (VA):	4.8	4	2.9	4
Operate current (A):	6	13	23	6
Thermal current I_{th} max. (A):	20	40	54	40

Output

Contacts:	1 NC contact
Normal switching off capacity:	1 A at AC 230 V
Permissible switching frequency:	1800 / h
Short circuit strength max. fuse rating:	6 AgL IEC/EN 60 947-5-1
Mechanical life:	5 x 10 ⁴ switching cycles

Technical Data

General Data

Operating mode:	Continuous operation	
Temperature range:	- 20 ... + 40 °C	
Clearance and creepage distances		
rated impuls voltage / pollution degree:	4 kV / 3	IEC 60 664-1
Permissible voltage on measuring- and output circuit:	max. AC 300 V	
EMC		
Electrostatic discharge:	8 kV (air)	IEC/EN 61 000-4-2
HF irradiation:	10 V / m	IEC/EN 61 000-4-3
Fast transients:	4 kV	IEC/EN 61 000-4-4
Surge voltages between wires for power supply:	2 kV	IEC/EN 61 000-4-5
between wire and ground:	4 kV	IEC/EN 61 000-4-5
HF-wire guided:	10 V	IEC/EN 61 000-4-6
Interference suppression:	Limit value class B EN 55011	
Degree of protection		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Housing:	Thermoplastic with V0 behaviour according to UL subject 94	
Vibration resistance:	Amplitude 0.35 mm frequency 10 ... 55 Hz IEC/EN 60 068-2-6	
Climate resistance:	Humid heat IEC/EN 60 068-2-30	
Terminal designation:	EN 50 005	
Wire connection		
Coil:	Box terminals for wires with cross-sections of up to 10 mm ²	
Contact:	2 x 2.5 mm ² solid or 2 x 1.5 mm ² stranded ferruled DIN 46 228-1/-2/-3/-4	
Mounting:	DIN rail	IEC/EN 60 715
Weight:	100 g	

Dimensions

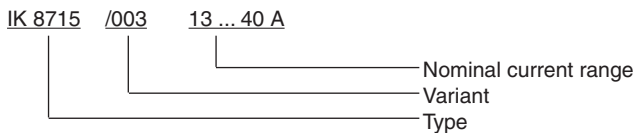
Width x height x depth: 17.5 x 86 x 60 mm

Standard Type

IK 8715 6 ... 20 A	
Article number:	0026236
• Output:	1 NC contact
• Nominal current range:	6 ... 20 A
• Width:	17.5 mm

Variant

IK 8715/003	special version for electronic flow heater 6 ... 40 A
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Connection example

