VARIMETER
Priority Relay
IK 8715

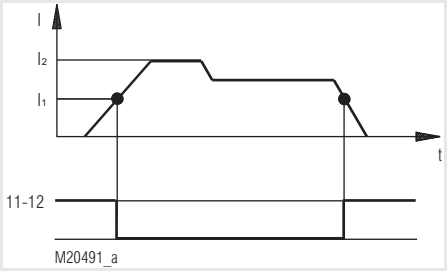
0222118



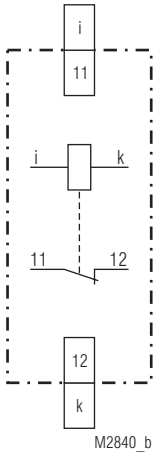
Your Advantages
- Cost savings
- Reduces the size of the wire cross-sections required for large electricity consumers

Features
- According to IEC/EN 60669
- Width 17.5 mm

Function Diagram



Circuit Diagram



Connection Terminals

Terminal designation	Signal description
i, k	Current measuring input
11, 12	NC contact

Approvals and Markings

CE

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.

All technical data in this list relate to the state at the moment of edition. We reserve the right for technical improvements and changes at any time.

Technical Data

Input

	IK 8715			IK 8715/003
Nominal current range I1...I2 (A):	6 ... 20	13 ... 40	10 ... 37	6 ... 40
corresp. at AC 230 V (kW):	1.5 ... 5	3 ... 9	2,5 ... 9	1.5 ... 9
corresp. at 3 AC 400 V (kW):	4.5 ...15	9 ... 27	7,5 ... 27	4.5 ... 27
Nominal consumption (VA):	4.8	4	4	4
Operate current I1 (A):	6	13	10	6
Thermal current I_{th} max. (A):	20	40	40	40
Article number:	0026236	0035855	0026237	0045715

Output

Contacts: 1 NC contact
Normal switching off capacity: 1 A at AC 230 V
Permissible switching frequency: 1800 switching cycles / h
Short circuit strength max. fuse rating: 6 A gG / gL IEC/EN 60947-5-1
Mechanical life: 5 x 10^4 switching cycles

General Data

Operating mode: Continuous operation
Temperature range
Operation: - 20 ... + 40 °C
Storage: - 25 ... + 55 °C
Altitude: < 2000 m
Clearance and creepage distances
rated impulse voltage / pollution degree: 4 kV / 3 IEC 60664-1
Permissible voltage on measuring- and output ciruit: max. AC 300 V
EMC
Electrostatic discharge: 8 kV (air) IEC/EN 61000-4-2
HF irradiation
80 MHz ... 2,7 GHz: 10 V / m IEC/EN 61000-4-3
Fast transients: 4 kV IEC/EN 61000-4-4
Surge voltages between
wires for power supply: 2 kV IEC/EN 61000-4-5
between wire and ground: 4 kV IEC/EN 61000-4-5
HF-wire guided: 10 V IEC/EN 61000-4-6
Interference suppression: Limit value class B EN 55011
Degree of protection
Housing: IP 40 IEC/EN 60529
Terminals: IP 20 IEC/EN 60529
Housing: Thermoplastic with V0 behaviour according to UL subject 94
Vibration resistance: Amplitude 0.35 mm frequency 10 ... 55 Hz IEC/EN 60068-2-6
Climate resistance: Humid heat IEC/EN 60068-2-30
Terminal designation: EN 50005
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 46228-1/-2/-3/-4
Fixing torque: 1.2 Nm
Mounting: DIN rail IEC/EN 60715
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

IK 8715 /003 13 ... 40 A
- 13 ... 40 A: Nominal current range
- /003: Variant
- IK 8715: Type

Connection Example

