

Data sheet

KRS-F-C12 3VHR 24 V AC/DC

Page 1/6

P/N

1104341370

EAN 4251394629377

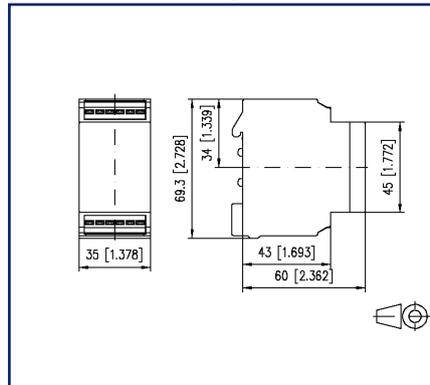
2025/12/22

Version: I

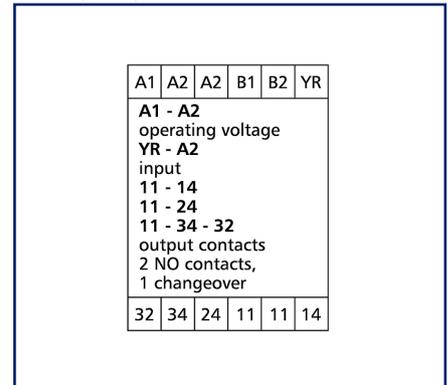
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

The threshold gate was developed for three-level motor control. Three LEDs are integrated in the module for visually checking the switching state.

- Connection with spring clamp terminal blocks (push-in)
- Activation by just one analog input
- Manual control level with checkback
- integrated timer relay
- 3 changeover contacts (3PDT) with automatic locking



Technical Data

Supply

Operating voltage	24 V AC/DC -20% ... +10%
Power consumption AC (max.)	60 mA
Power consumption DC (max.)	22 mA
Duty cycle relative	100 %
Recovery time	50 ms

Manual control level

Mechanical life	3x10 ⁴ switchings
Switching capacity (max.)	24 V AC/DC / 1 A

Inputs

Threshold voltage	3.5 V DC 6.5 V DC 8.5 V DC
Tolerance	+/- 10 %
Power consumption	
Power consumption at 10 V DC	24 µA

Outputs

Contacts	3 changeover contacts with automatic locking
Contact material	AgSnO ₂
Switching voltage (max.)	250 V AC
Continuous Current	4 A
Switching frequency	360 switching cycles/h
Breaking capacity (resistive load)	
Mechanical life	1x10 ⁷ switching cycles
Electrical life	1x10 ⁵ switching cycles
Indicator	yellow LED

Insulation coil - contact set

Nominal voltage of the power supply system	230 / 400 V AC
Overvoltage category	III II
Degree of pollution	2 2
Rated test voltage	4 kV 2.5 kV
Type of insulation	basic insulation reinforced insulation

Technical Data

Housing	
Dimensions	
Dimension (W x H x D)	35 mm x 69.3 mm x 60 mm
Dimension (W x H x D)	1.378 in. x 2.728 in. x 2.362 in.
Weight	95 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	without distance
Connection type	Spring clamp terminal blocks
Terminal blocks	
Wire cross section solid	0.2 mm ² - 2.5 mm ² / AWG 24-14
Wire cross section multi	0.25 mm ² - 2.5 mm ² / AWG 24-12
Wire cross section with wire ferrule	0.25 mm ² - 1.5 mm ² / AWG 24-16
Stripping length (min.)	8 mm
Material	
Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat
Protection category according to IEC 60529	
Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20
Climatic Data	
Operating	
Temperature - Operating °C	-10 °C - 50 °C
Temperature - Operating °F	14 °F - 122 °F
Relative humidity	max. 85 % non-condensing
Storage	
Temperature - Storage °C	-25 °C - 70 °C
Temperature - Storage °F	-13 °F - 158 °F

Data sheet

Page 4/6

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Technical Data**Power loss**

Power loss (typical) 1.2 W

Classifications

ETIM 7.0 EC001437

ETIM 8.0 EC001437

ETIM 9.0 EC001437

ETIM 10.0 EC001437

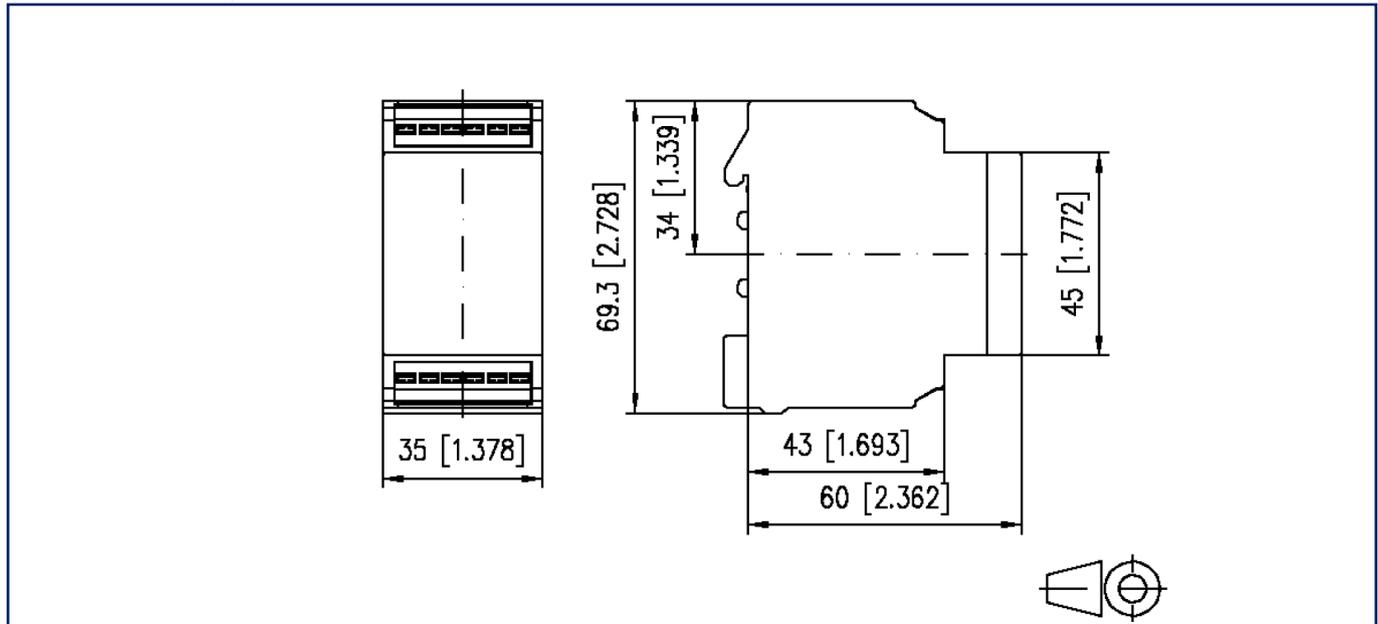
Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).



Illustrations

Dimensional drawing

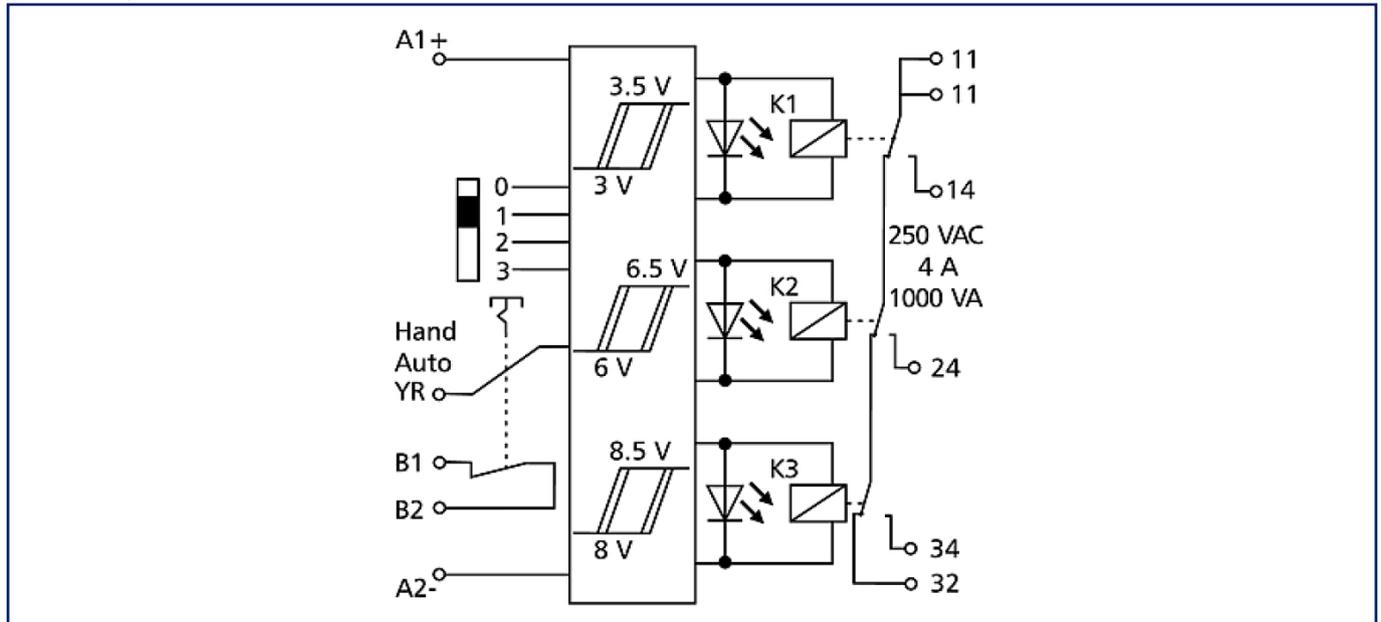


Wiring diagram

A1	A2	A2	B1	B2	YR
A1 - A2 operating voltage YR - A2 input 11 - 14 11 - 24 11 - 34 - 32 output contacts 2 NO contacts, 1 changeover					
32	34	24	11	11	14

Illustrations

Circuit diagram



Function diagram

