

Data sheet

MFRk-F-E08 230 V AC, 24 V AC/DC

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P/N

11065870

EAN 4251394620459

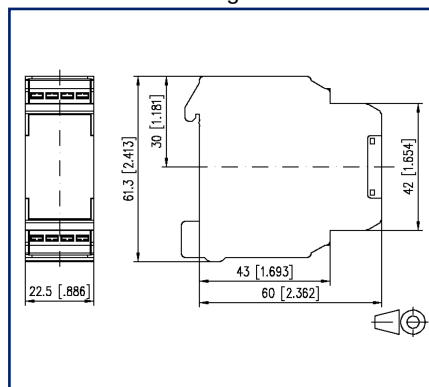
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Version: G

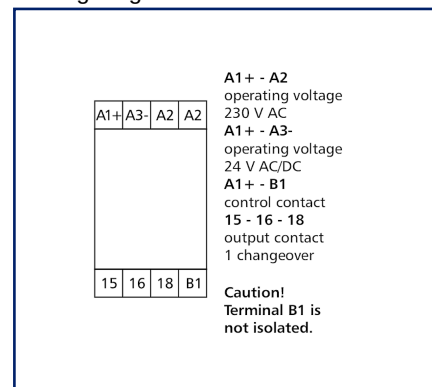
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

Multifunctional timer relay with incorporated coding switches to set functions. The time is set by means of a linear potentiometer on a relative scale.

- Connection with spring clamp terminal blocks (push-in)
- Ten adjustable time ranges from 0.05 s to 30 h
- Seven selectable functions
- 1. On-delayed
- 2. Making-pulse interval
- 3. Off-delay
- 4. Breaking-pulse interval
- 5. Flashing for pause start
- 6. Flashing for pulse start
- 7. Off-delay with control contact B1 inhibition

Technical Data

Supply

Operating voltage	230 V AC / 24 V AC/DC -10% ... +10%
Frequency range	50 ... 60 Hz
Power consumption	
Power consumption 230 V AC	5.2 VA
Power consumption 24 V AC	0.5 VA
Power consumption 24 V DC	0.3 W
Duty cycle relative	100 %
Response time typical	20 ms
Release time typical	20 ms
Fallback voltage range	≥ 0.15 UN
Time Ranges	
Time range adjustable	0.05 s - 30 h
Repeatability	± 0.01 %
Repeatability in the smallest time range (max.)	± 0.1 %

Inputs

Minimum switch-on duration	
Minimum switch-on duration (control contact)	≥ 5 ms
Minimum switch-on duration DC	≥ 0.2 s
Minimum switch-on duration AC	≥ 0.3 s

Outputs

Contacts	1 changeover contact
Contact material	AgSnO ₂
Switching voltage (max.)	250 V AC
Continuous Current	6 A
Protection	6 A
Switching frequency	1200 switching cycles/h
Mechanical life	1x10 ⁷ switching cycles
Electrical life	1x10 ⁵ switching cycles



Technical Data

Outputs

Recovery time

Recovery time (control contact)	≥ 10 ms
Recovery time 24 V AC	60 ms
Recovery time 24 V DC	50 ms
Recovery time 230 V AC	100 ms
Indicator	green and red 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

Housing

Dimensions

Dimension (W x H x D)	22.5 mm x 61.3 mm x 60 mm
Dimension (W x H x D)	0.886 in. x 2.413 in. x 2.362 in.
Weight	70 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



Technical Data

Material

Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polyamid 6.6 V0

Protection category according to IEC 60529

Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20

Temperature range

Operating

Temperature - Operating °C	-10 °C - 55 °C
Temperature - Operating °F	14 °F - 131 °F

Storage

Temperature - Storage °C	-25 °C - 70 °C
Temperature - Storage °F	-13 °F - 158 °F

Power loss

Power loss (typical)	1 W
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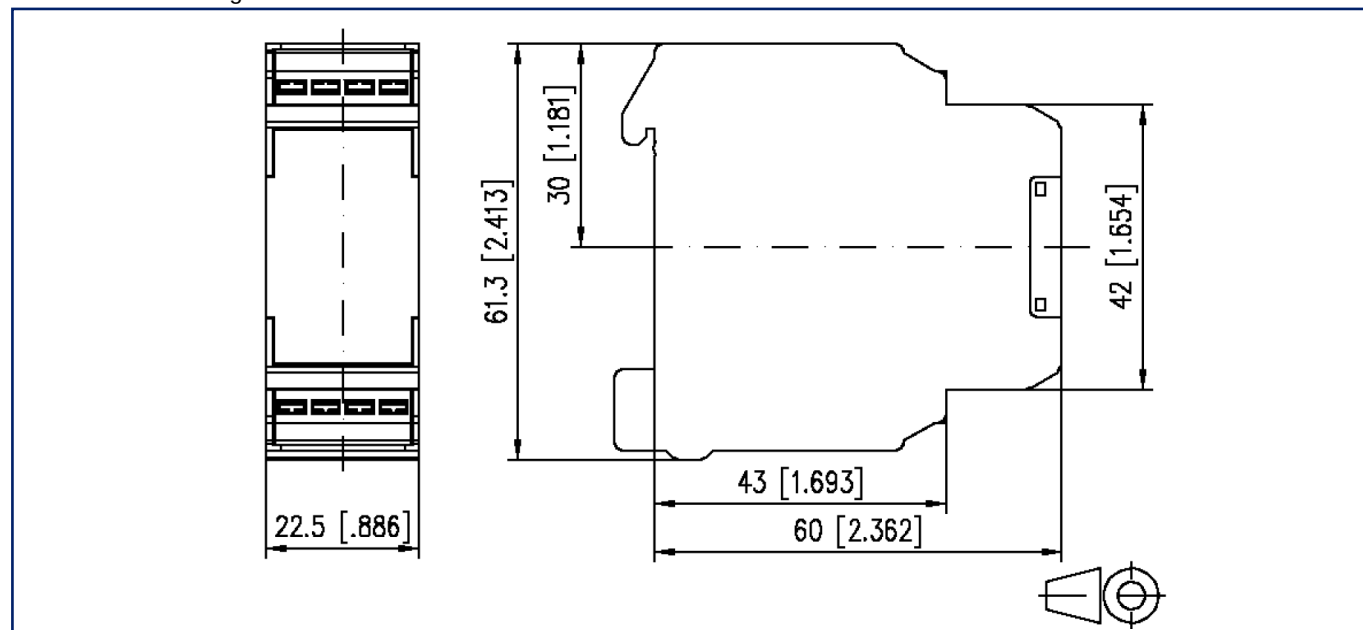
Classifications

ETIM 7.0	EC001439
ETIM 8.0	EC001439
ETIM 9.0	EC001439

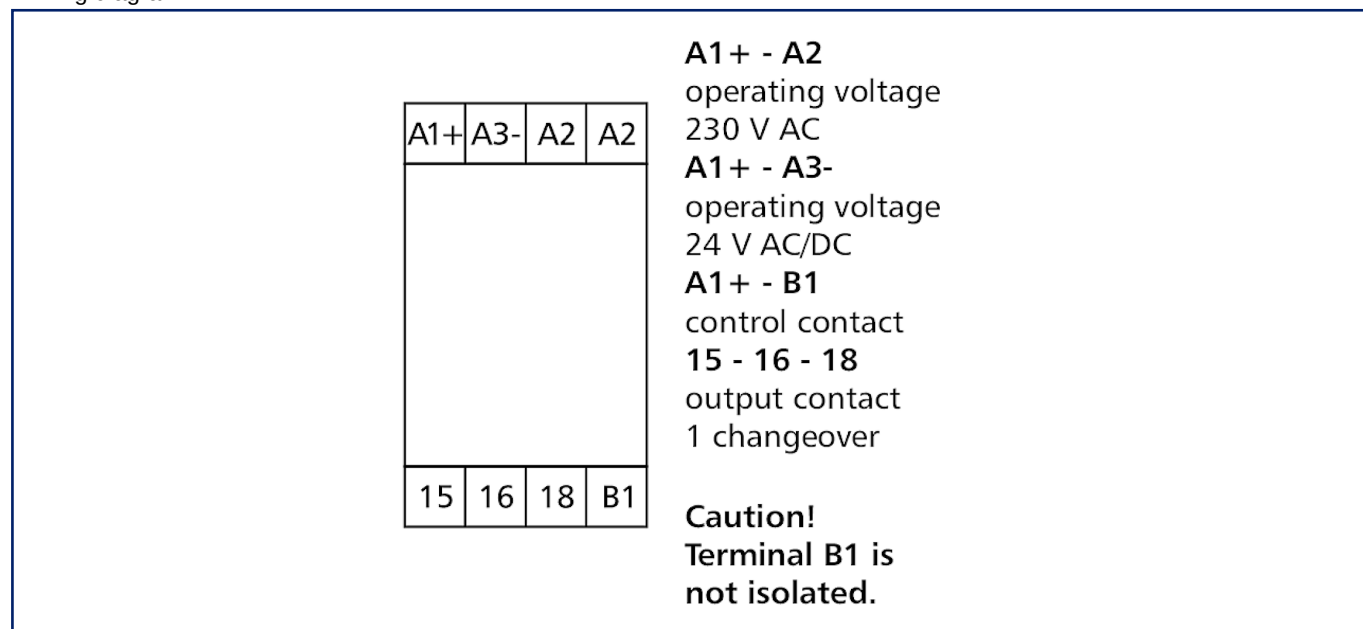


Illustrations

Dimensional drawing

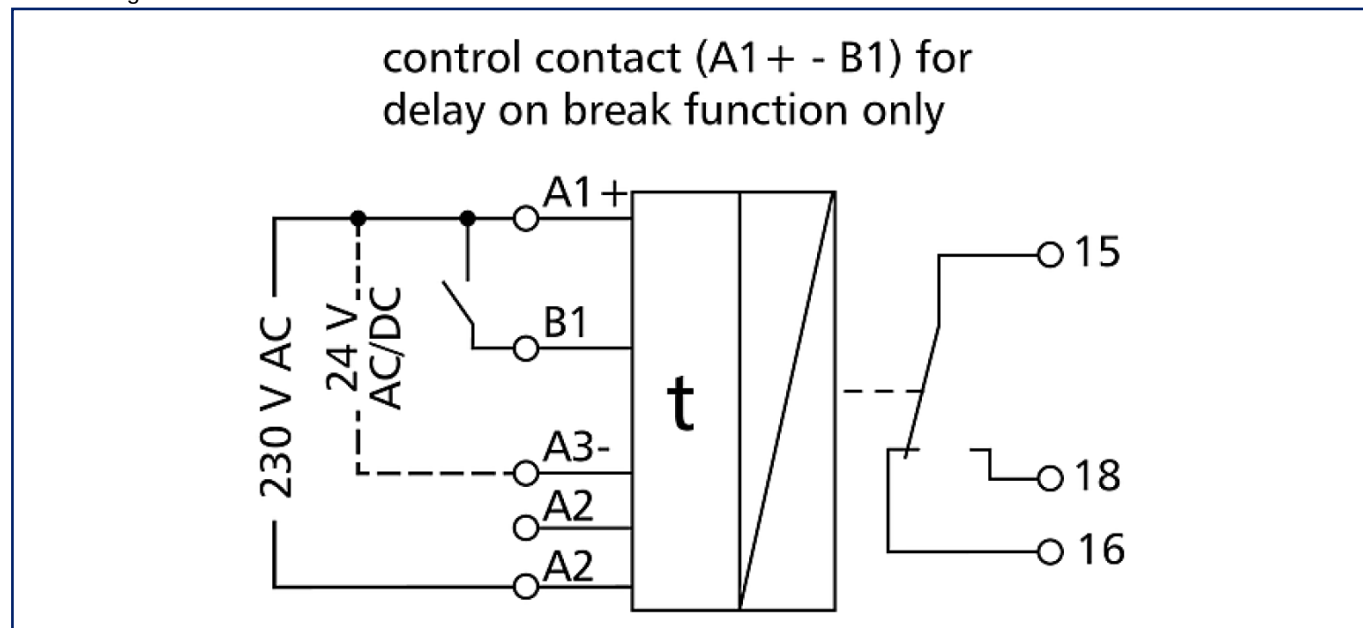


Wiring diagram

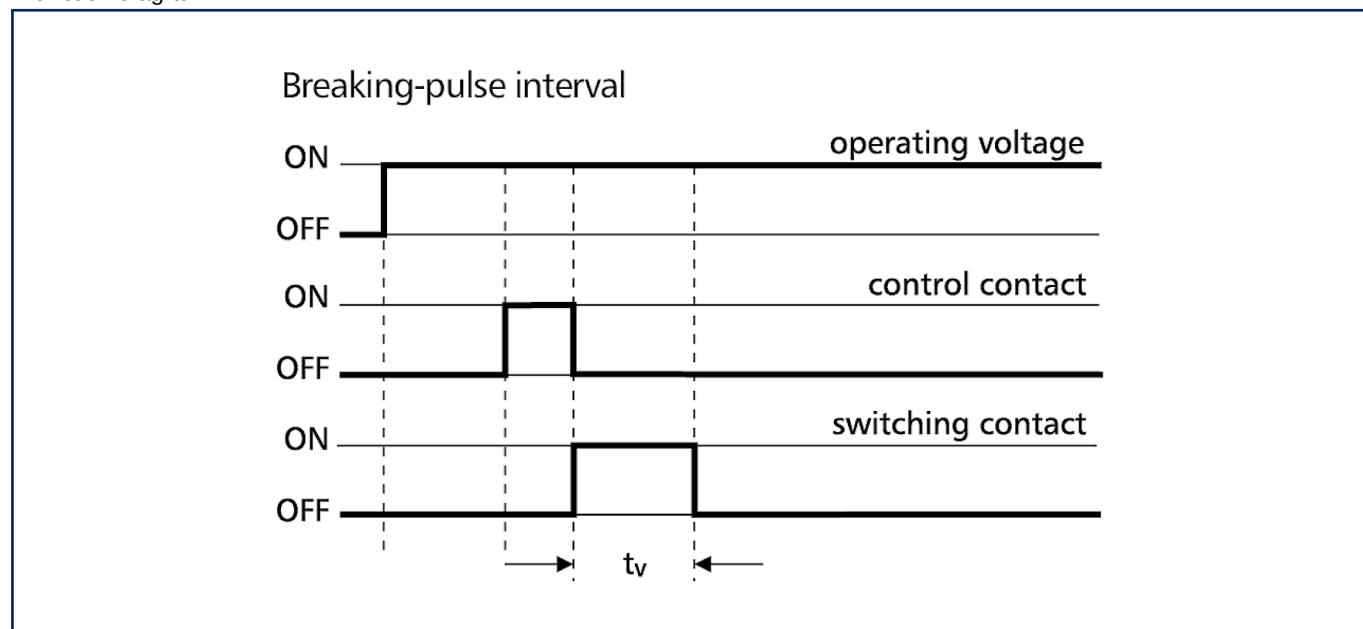


Illustrations

Circuit diagram



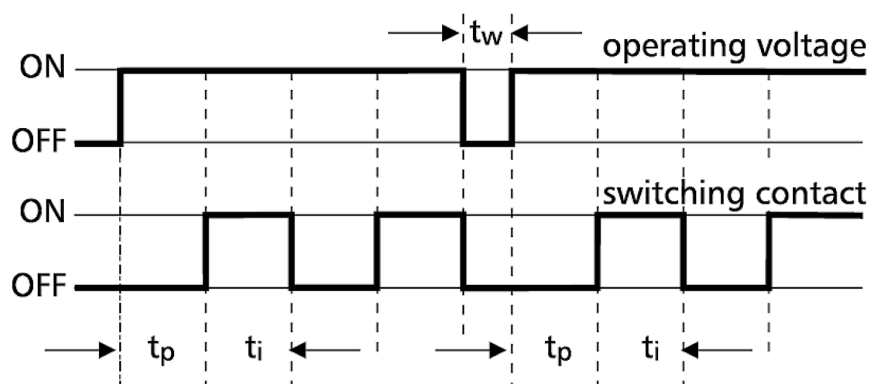
Function diagram



Illustrations

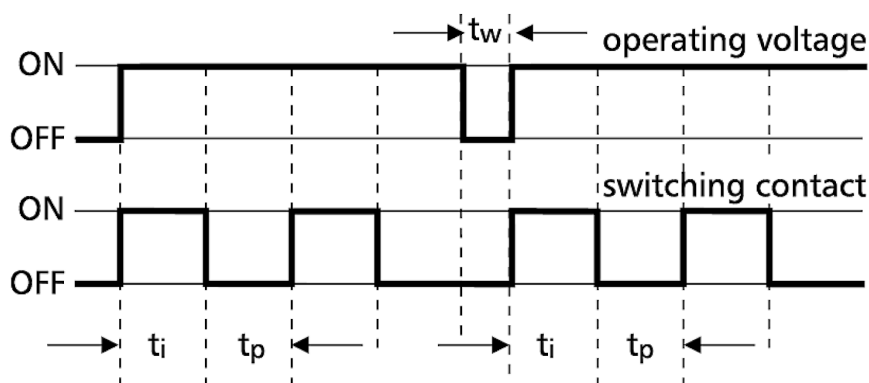
Function diagram

Flashing for pause start



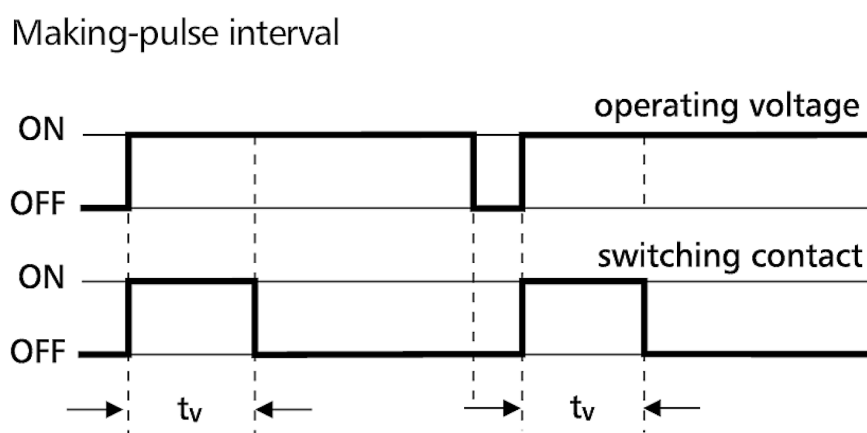
Function diagram

Flashing for pulse start

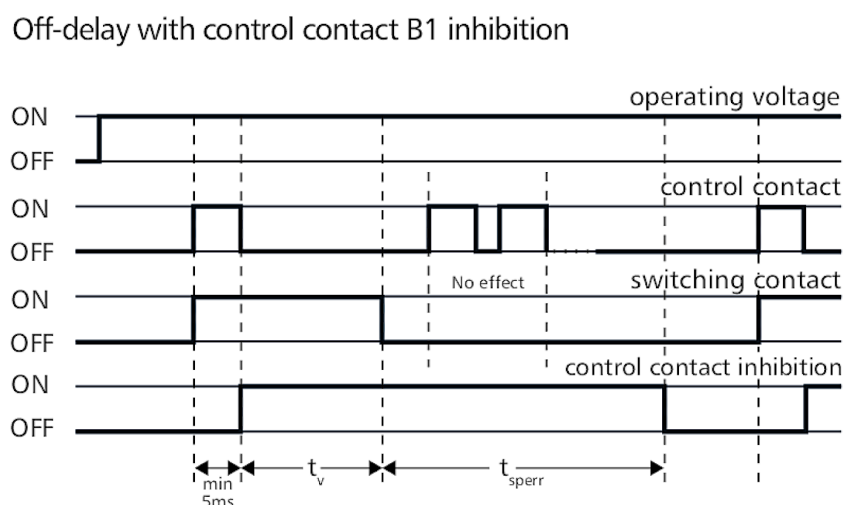


Illustrations

Function diagram

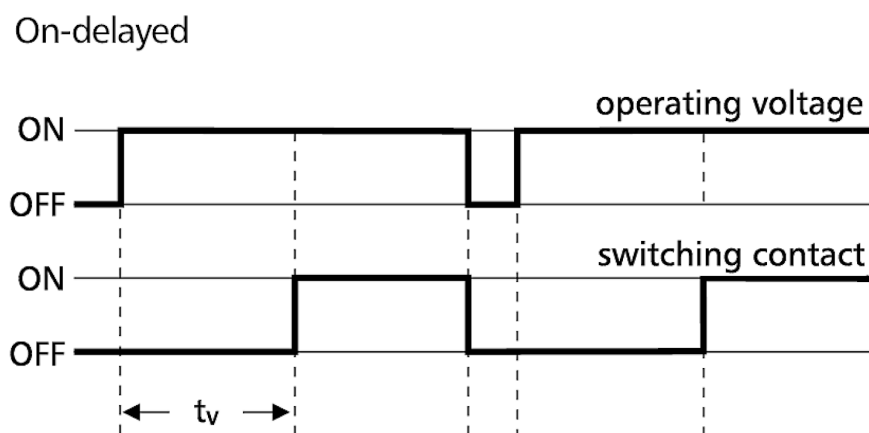


Function diagram



Illustrations

Function diagram



Function diagram

