











Specifications



Resources









DELIVERY PROGRAM

Delivery program >

Technical data >

Product range

EVR Measuring and monitoring relays

Design verification as per IEC/EN 61439 >

Basic function

Current monitoring relays

Technical data ETIM 7.0

Monitoring of single-phase DC and AC networks On delay: None = 0 or adjustable from 0.1 to 30 s Extension of the measurement range possible with

current transformers

Approvals >

Monitoring of Overcurrent Undercurrent

Dimensions >

Current measuring range [I□/I=] 0.3 - 1.5 A

1-5A 3 - 15 A A

Contact sequence



Supply voltage 220 - 240 V AC, 50/60 Hz

Width 22.5 mm

TECHNICAL DATA

General

Standards
UL 508, CAN/CSA C22.2 No.14, GL, EAC, CCC, RMRS

Lifespan, mechanical [Operations] 30 x 10⁶

Climatic proofing Damp heat, cyclical to IEC 60068-2-30: 24 h cycle, 55° C, 93% relative humidity, 96 h

Ambient temperature Operation Operating ambient temperature min. -25 °C

Ambient temperature Operation Operating ambient temperature max. +60 °C

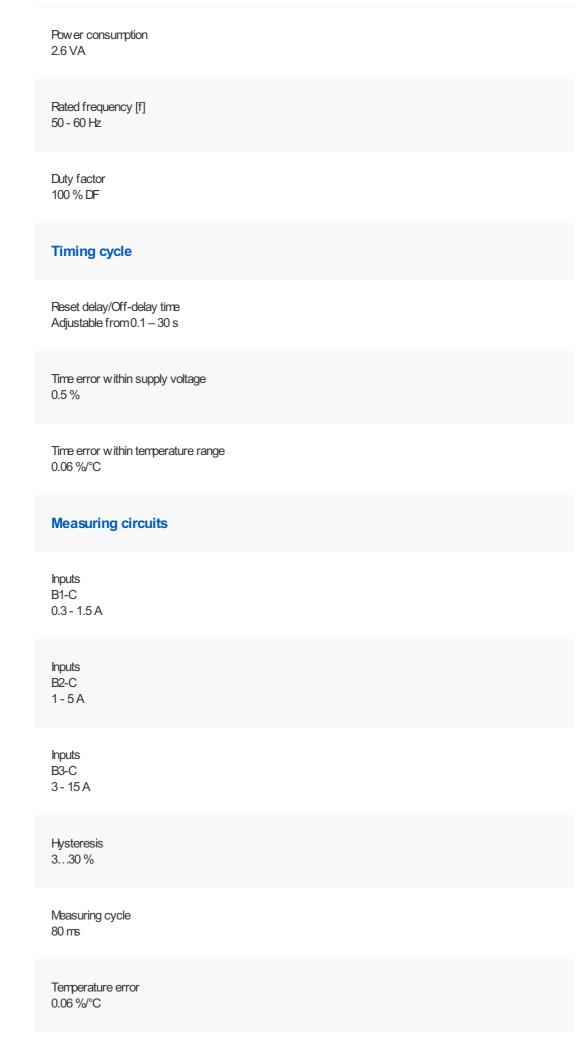
Ambient temperature Storage - 40 - 85 °C

Mounting position As required

Shock resistance Class 2

Degree of protection **Terminals** IP20 Degree of protection Enclosures IP50 Terminal capacities 1 x 0.5-2.5 (1 x 18-14 AWG) mm² Terminal capacities Flexible with ferrule 2 x 0.5-1.5 (2 x 18-16 AWG) mm² Standard screwdriver 4 x 0.8 mm Tightening torque 0.6 - 0.8 Nm Fixing Snap fixing, top-hat rail IEC/EN 60715 MTBF (mean time between failures) 382467 h **Contacts** Rated impulse withstand voltage [U_{mp}] 4000 V AC Overvoltage category/pollution degree **Power supply** Supply voltage 220 - 240 V AC, 50/60 Hz

Voltage tolerance 0.85 - 1.1 x U_c



Error within supply voltage 0.5 %

Status indication

Supply voltage LED, green

Output relay energized LED, yellow

Measured value LED, red

Status indicator (LED)
Green, solid: Supply voltage
Green, flashing: Release delay active
Yellow, solid: Output relay excited
Red, flashing: Undercurrent

Relay output contacts

Rated operational voltage [U_e] 250 V AC

Rated operational current [le] AC-12 at 230 V [le] 4 A

Rated operational current [I $_{\rm e}$] AC-15 with 230 V [I $_{\rm e}$] 3 A

Rated operational current [I $_{\rm e}$] DC-12 at 24 V [I $_{\rm e}$] 4 A

Rated operational current [I $_{\rm e}$] DC-13 at 24 V [I $_{\rm e}$] 2 A

Minimum Switching capacity 10 mA / 24 V

Lifespan, electrical (AC-12/230 V/4 A) [Operations]
Lifespan, electrical [Operations]
0.1 x 10⁶

Short-circuit rating max. fuse [Fast/gL] 10 A

Electromagnetic compatibility (EMC)

Electromagnetic compatibility IEC/EN 60947-6-2

ESD [Air/contact discharge] IEC/EN 61000-4-2 level 3 kV

HF-immunity to radiation IEC/EN 61000-4-3 level 3

Burst IEC/EN 61000-4-4 level 3

Surge IEC/EN 61000-4-5 Level 4

HF-immunity to line-conducted interference IEC/EN 61000-4-6 level 3

DESIGN VERIFICATION AS PER IEC/EN 61439

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +60 $^{\circ}\text{C}$

TECHNICAL DATA ETIM 7.0

Relays (EG000019) / Current monitoring relay (EC001440)

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Ourrent monitoring equipment (ecl@ss10.0.1-27-37-18-02 [AKF096014])

Type of electric connection Screw connection With detachable clamps Single-phase under current possible Yes Three-phase under current possible No Single-phase over current possible Yes Three-phase over current possible Single-phase hysteresis possible Three-phase hysteresis possible No Contains function DC-voltage under current Yes Contains function DC-voltage over current Function DC-current hysteresis No

Rated control supply voltage Us at AC 50HZ 220 - 240 V $\,$

Rated control supply voltage Us at AC 60HZ 220 - 240 V

Rated control supply voltage Us at DC 220 - 240 V
Voltage type for actuating AC/DC
Ourrent measurement range 0.3 - 15 A
Mn. adjustable delay-on energization time 0.1 s
Max. permitted delay-on energization time 30 s
Min. adjustable off-delay time 0 s
Max. permitted off-delay time 0 s
Number of contacts as normally closed contact 0
Number of contacts as normally open contact 0
Number of contacts as change-over contact 2
External current transformer
Width 22.5 mm
Height 85.6 mm
Depth 104.6 mm

APPROVALS

Product Standards IEC 255-6; UL 508; CSA-22.2 No. 14-05; CE marking

UL File No. E29184

UL Category Control No. NKCR, NKCR7

CSA File No. UL report valid

CSA Class No. 3211-03

North America Certification UL listed, certified by UL for use in Canada

DIMENSIONS









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