Window-voltage monitoring relay, 3 - 30, 5 - 60, 30 - 300, 60 - 600 V, 24 -240 V AC, 50/60 Hz, 24 - 240 V DC



EMR6-VF600-A-1 Part no.

184785

EL Number

4101981

eneral specifications	
Product name	Eaton Moeller® series EMR6 Window-current monitoring relay
Part no.	EMR6-VF600-A-1
EAN	4015081788217
Product Length/Depth	103.7 millimetre
Product height	85.6 millimetre
Product width	22.5 millimetre
Product weight	0.157 kilogram
Certifications	CSA-C22.2 No. 14 GL EAC RMRS CCC UL508 RCM
Product Tradename	EMR6
Product Type	Window-current monitoring relay
Product Sub Type	None
Features & Functions	
Electric connection type	Screw connection
Functions	Single-phase under voltage possible DC-over voltage DC-under voltage Single-phase over voltage possible
Monitoring function	Overcurrent and undercurrent (window) Undercurrent Overcurrent
Voltage measurement - min	3 V
Voltage measurement - max	600 V
General information	
Degree of protection	Terminals: IP20 Enclosure: IP50
Lifespan, mechanical	30,000,000 Operations
Mounting position	As required
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	4000 V AC
Shock resistance	Class 2
LED indicator	Status indication of Supply voltage: Green, solid light Other states depending on fault (see IL): Measured value Status indication of energized output relay: Yellow LED Status indication of errors: Red LED Status indication of Supply voltage: Yellow LED
Туре	Voltage monitor
Voltage type	AC/DC
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	85 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30
Gilliatio procining	

Burst impulse	According to IEC/EN 61000-4-4, level 3
Electromagnetic compatibility	According to IEC/EN 60947-6-2
Immunity to line-conducted interference	Level 3 (according to IEC/EN 61000-4-6)
Immunity to radiation	Level 3 (according to IEC/EN 61000-4-3)
Surge rating	According to IEC/EN 61000-4-5 Level 4
Terminal capacities	
Connection type	Snap fixing, top-hat rail IEC/EN 60715
Terminal capacity (flexible with ferrule)	2 x 0.5-1.5 mm ²
Terminal capacity (flexible with ferrule AWG)	2 x 18-16
Terminal capacity (solid)	1 x 0.5-2.5 mm ²
Terminal capacity (solid AWG)	18 - 14
Screwdriver size	5.5 x 0.8 mm, Terminal screw
Tightening torque	Min. 0.5 Nm, Screw terminals 0.8 Nm, Screw terminals
Timing cycle	
Delay time	Adjustable from 0.1 - 30 s, Response delay time
Timing cycle	Adjustable from 0.1 – 30 s, Reset delay/Off-delay time
Power supply	
Duty factor	100 %, Power supply
Power consumption	2.6 VA
Rated control supply voltage (Us) at AC, 50 Hz - min	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	240 V
Rated control supply voltage (Us) at AC, 60 Hz - min	24 V
Rated control supply voltage (Us) at AC, 60 Hz - max	240 V
Rated control supply voltage (Us) at DC - min	24 V
Rated control supply voltage (Us) at DC - max	240 V
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Supply voltage	24 - 240 V DC 24 - 240 V AC, 50/60 Hz
Voltage tolerance	0.85 x Uc 1.1 x Uc
Measuring circuits	
Hysteresis	5 %
Threshold value	600 V AC, Max. undervoltage response value 3 V AC, Min. overvoltage response value 3 V AC, Min. undervoltage response value 600 V AC, Max. overvoltage response value
Relay output contacts	
Number of contacts (change-over contacts)	2
Number of contacts (normally closed contacts)	0
Number of contacts (normally open contacts)	0

Technical data ETIM 9.0

Lifespan, electrical

Relays (EG000019) / Voltage monitoring relay (EC001438)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Voltage monitoring equipment (ecl@ss13-27-37-18-01 [AKF095019])

100,000 Operation (at 230 V, AC-12, 4 A)

(ecl@ss13-27-37-18-01 [AKF095019])		
Type of electric connection		Screw connection
With detachable clamps		No
External power supply required		No
Voltage type (supply voltage)		AC/DC
Supply voltage AC 50 Hz	V	24 - 240
Supply voltage AC 60 Hz	V	24 - 240
Supply voltage DC	V	24 - 240
Voltage measuring range 1	V	3 - 600
Voltage measuring range 2	V	0 - 0

Type of voltage measuring range		AC/DC
Response value voltage	V	3 - 600
Single-phase under voltage possible		Yes
Three-phase under voltage possible		No
Single-phase over voltage possible		Yes
Three-phase over voltage possible		No
Single-phase hysteresis possible		Yes
Three-phase hysteresis possible		No
Contains function DC-under voltage		Yes
Contains function DC-over voltage		Yes
Contains function DC-voltage hysteresis		Yes
Min. adjustable delay-on energization time	s	0.1
Max. permitted delay-on energization time	s	30
Min. adjustable off-delay time	s	0
Max. permitted off-delay time	s	0
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		0
Number of contacts as change-over contact		2
Voltage type (operating voltage)		AC/DC
Operating voltage AC 50 Hz	V	24 - 240
Operating voltage AC 60 Hz	V	24 - 240
Operating voltage DC	V	24 - 240
Rated switch current	А	4
Width	mm	22.5
Height	mm	85.6
Depth	mm	103.7