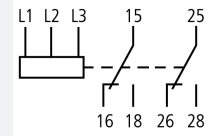




Phase monitoring relay, multi-function, 2W, 350-580V50/60Hz

Part no. **EMR5-AWM580-2**
 Catalog No. **134235**
 Eaton Catalog No. **EMR5-AWM580-2**
 EL-Nummer **4110394**
 (Norway)

Delivery program

			This item will continue to be available for a limited time only and is being replaced by the following item: 184765, EMR6-AWM580-H-1
Product range			EMR Measuring and monitoring relays
Basic function			Phase monitoring relays
Function			Multi-functional
			Power supply from the measuring circuit On-delay/off-delay: none = 0 or adjustable between 0.1 - 30 s Imbalance threshold values adjustable 2 - 25 % of mean value of phase voltages Automatic phase sequence correction
Monitoring voltage per phase	U_N	V AC	350 - 580 V AC, 50/60 Hz
Monitoring of			Phase sequence Phase failure Overvoltage Undervoltage Imbalance
Threshold value			U_{max} 480 - 580 V AC U_{min} 350 - 460 V AC
Adjustable threshold values			Overvoltage Undervoltage Imbalance
Contact sequence			
Supply voltage			350 - 580 V AC, 50/60 Hz
Width		mm	45

Technical data

Technical data in sheet catalogue

Other technical data (sheet catalogue)			Phase monitoring relays
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Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	0
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	5
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.

10.3 Degree of protection of ASSEMBLIES		Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9 Insulation properties		
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

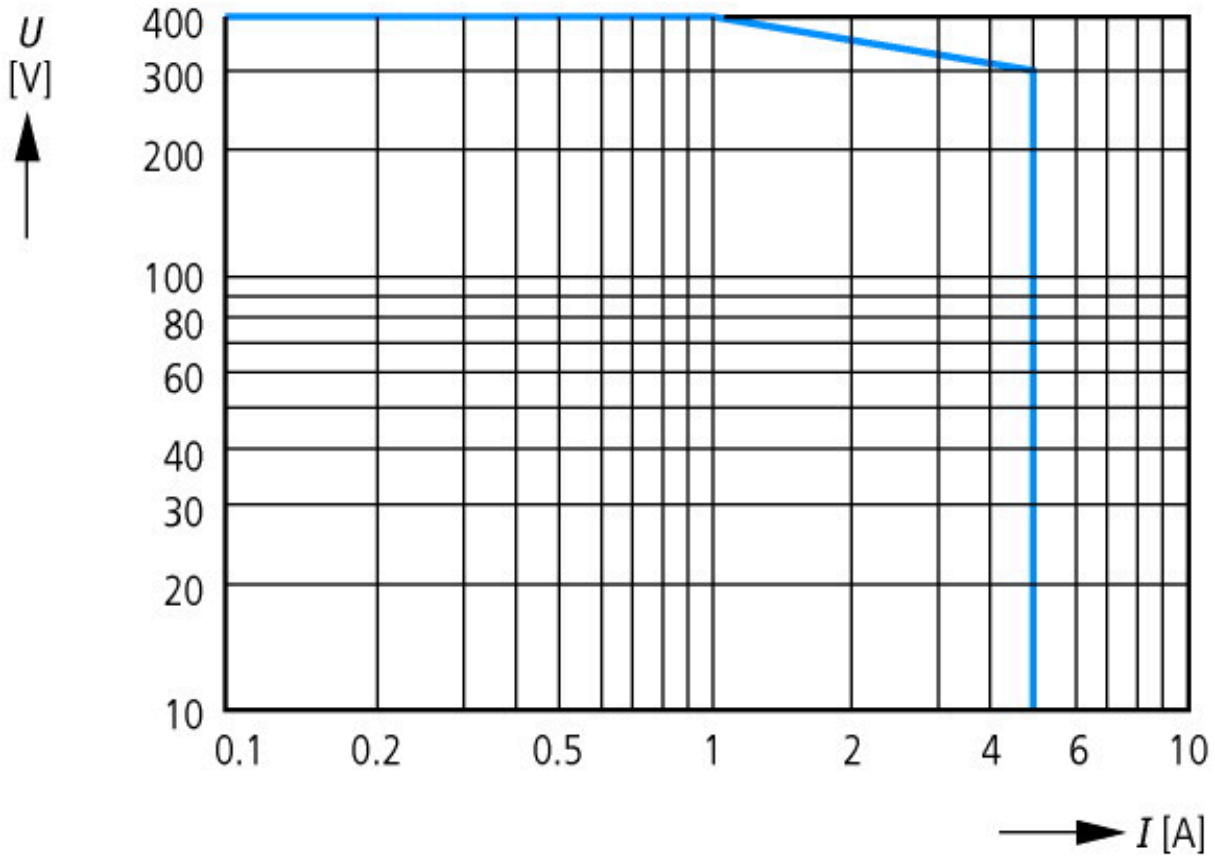
Technical data ETIM 7.0

Relays (EG000019) / Phase monitoring relay (EC001441)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Asymmetry monitoring equipment (ec1@ss10.0.1-27-37-18-03 [AKF097014])		
Type of electric connection		Screw connection
With detachable clamps		No
Rated control supply voltage U_s at AC 50HZ	V	0 - 580
Rated control supply voltage U_s at AC 60HZ	V	0 - 580
Rated control supply voltage U_s at DC	V	0 - 0
Voltage type for actuating		AC
Phase sequence monitoring		Yes
Phase failure detection		Yes
Function under voltage detection		Yes
Function over voltage detection		Yes
Phase imbalance monitoring		Yes
Voltage measurement range	V	0 - 580
Min. adjustable delay-on energization time	s	0.1
Max. permitted delay-on energization time	s	30
Min. adjustable off-delay time	s	0.1
Max. permitted off-delay time	s	30
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		0
Number of contacts as change-over contact		2
Width	mm	45
Height	mm	78
Depth	mm	100

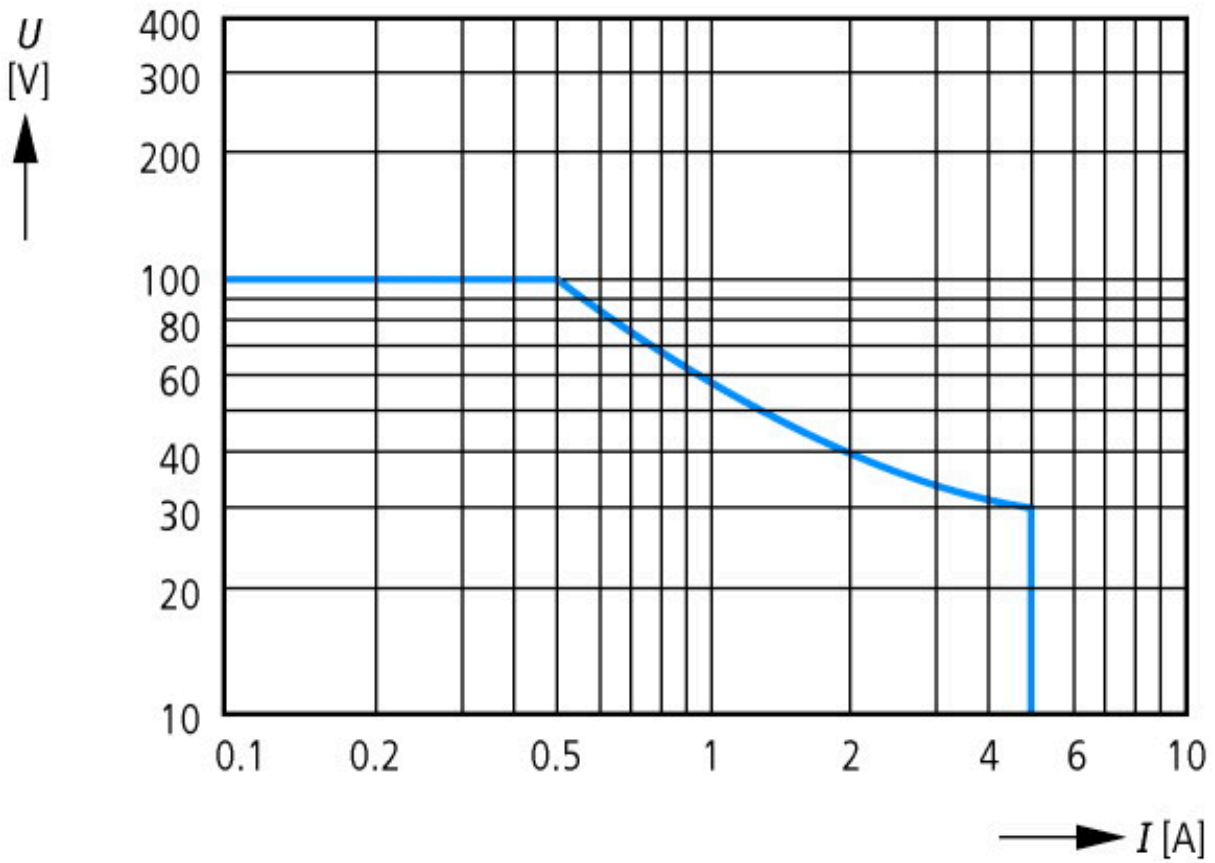
Approvals

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
Degree of Protection		IEC: IP20, UL/CSA Type: -

Characteristics



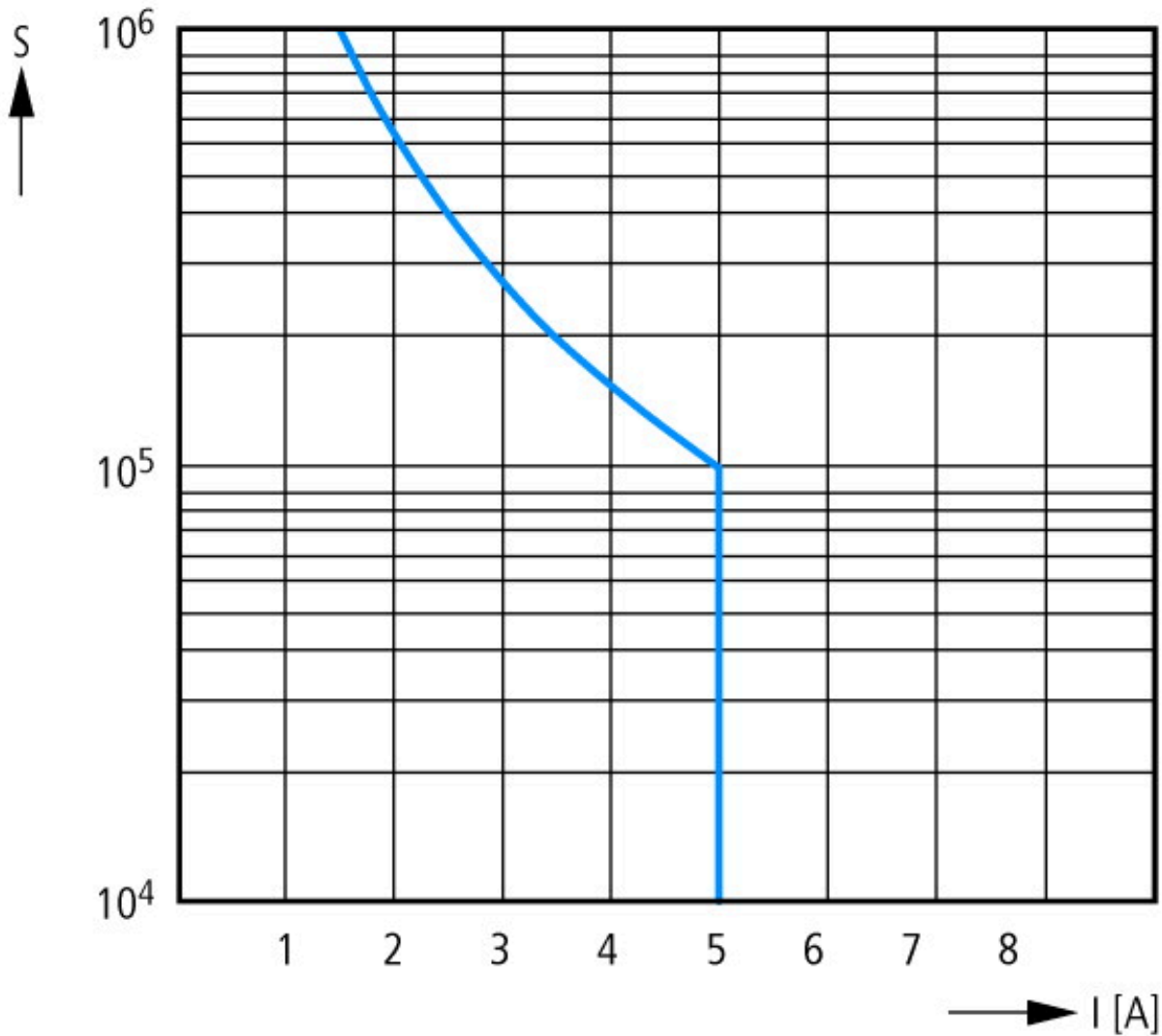
AC load (resistive)



DC load (resistive)

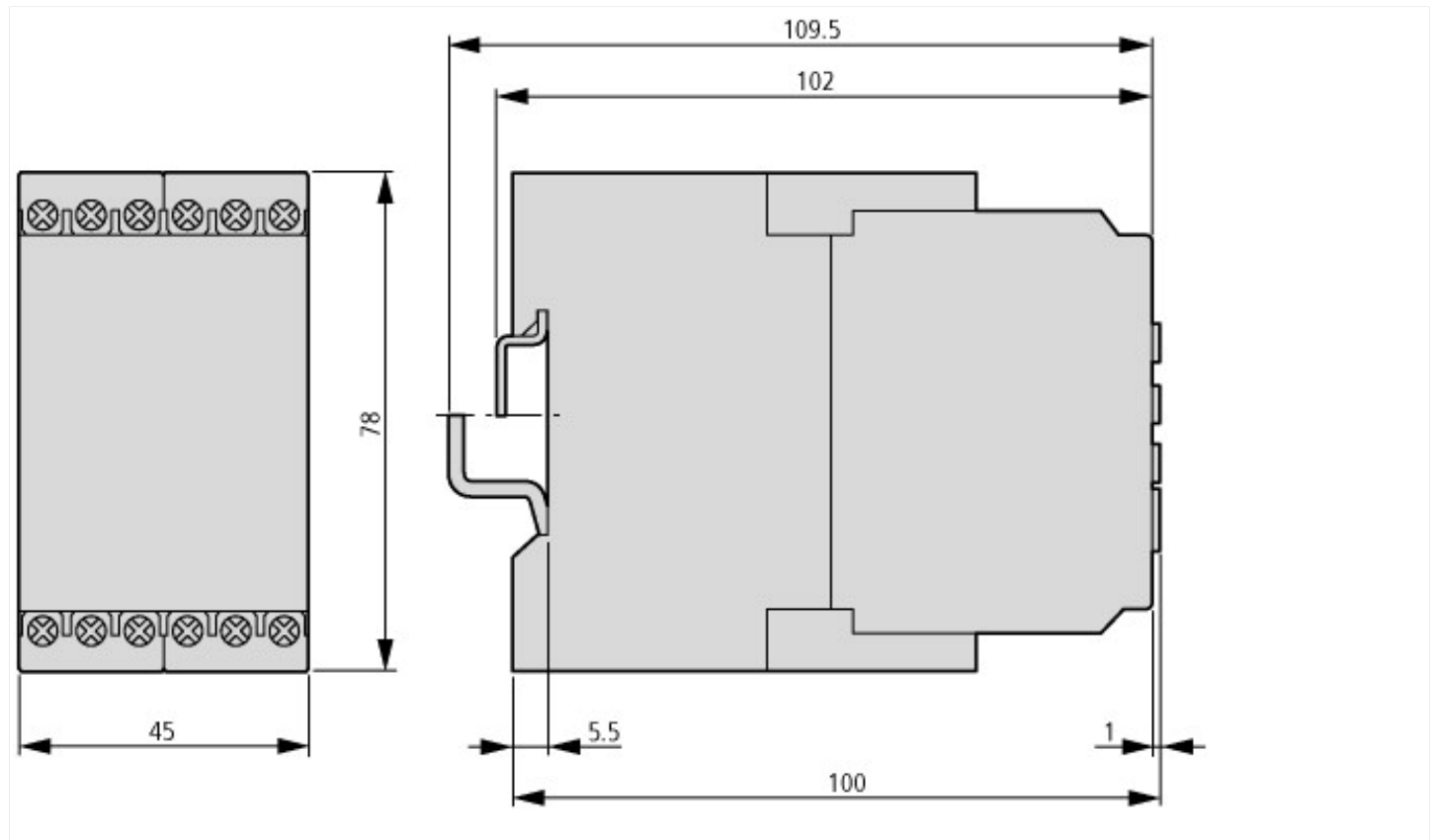


Derating factor F with inductive AC load



Contact life
 S operations
 220 V 50 Hz AC-1
 360 operations/h

Dimensions



Additional product information (links)

Phase monitoring relays

<http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.37>