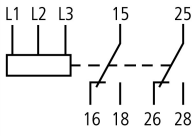




Phase monitoring relay, multi-function, 2W, 300-500V50/60Hz

Part no. EMR5-AW500-1-D
Article no. 134224
Catalog No. EMR5-AW500-1-D

Delivery programme

Product range			EMR4+EMR5 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
Monitoring voltage per phase	U_N	V AC	300 - 500 V AC, 50/60 Hz
Mnitoring of			Phase sequence Phase failure Overvoltage Undervoltage Imbalance
Threshold value			U_{max} 420 - 500 V AC U_{min} 300 - 380 V AC
Adjustable threshold values			Overvoltage Undervoltage Imbalance
Contact sequence			
Supply voltage			300 - 500 V AC, 50/60 Hz
Width		mm	22.5

Technical data

Technical data in sheet catalogue

Other technical data (sheet catalogue)			Phase monitoring relays
--	--	--	-------------------------

Design verification as per IEC/EN 61439

Technical data for design verification			
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 6.0

Relays (EG000019) / Phase monitoring relay (EC001441)

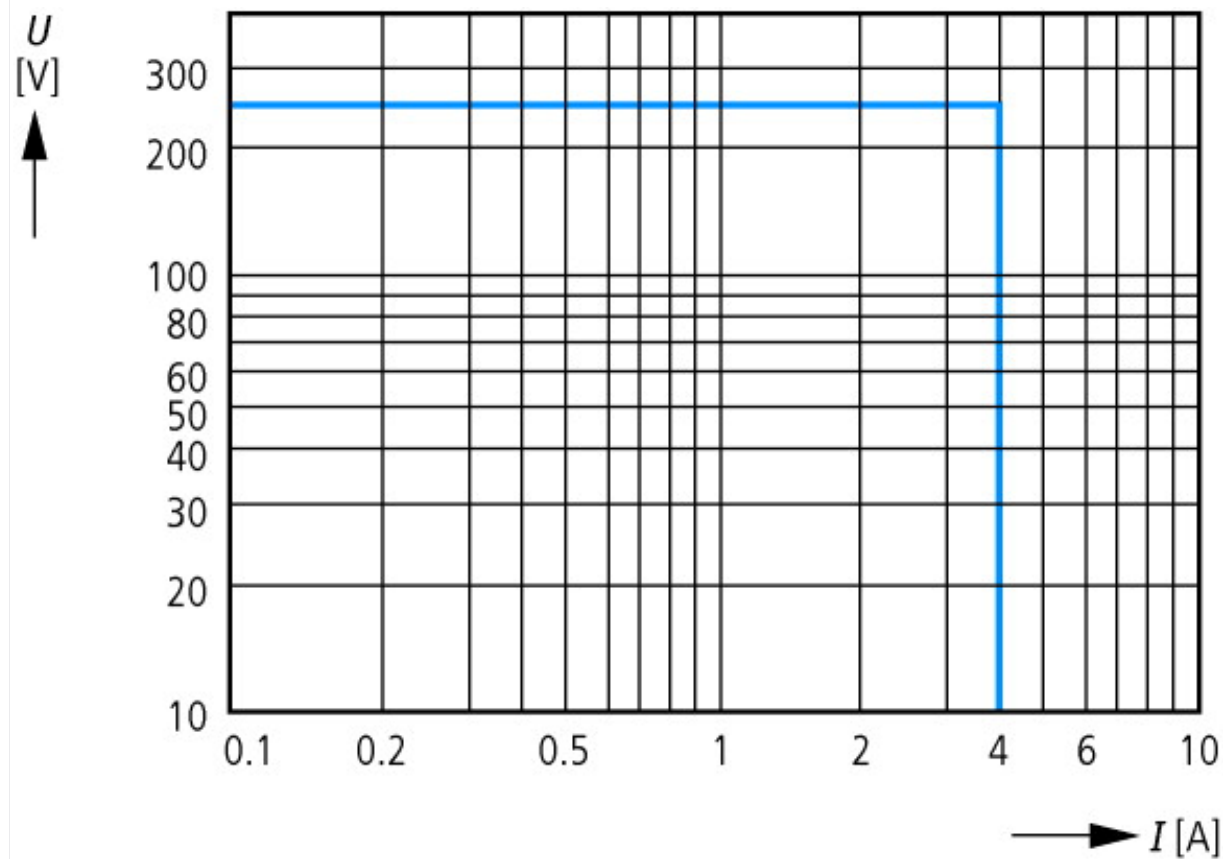
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Asymmetry monitoring equipment (ec@ss8.1-27-37-18-03 [AKF097011])

Type of electric connection			Screw connection
With detachable clamps			No
Rated control supply voltage U_s at AC 50HZ		V	0 - 500
Rated control supply voltage U_s at AC 60HZ		V	0 - 500
Rated control supply voltage U_s at DC		V	0 - 0
Voltage type for actuating			AC
Phase sequence monitoring			Yes
Phase failure monitoring			Yes
Function under voltage detection			Yes
Function over voltage detection			Yes
Phase imbalance monitoring			Yes
Voltage measurement range		V	0 - 500
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	22.5
Height		mm	78
Depth		mm	100

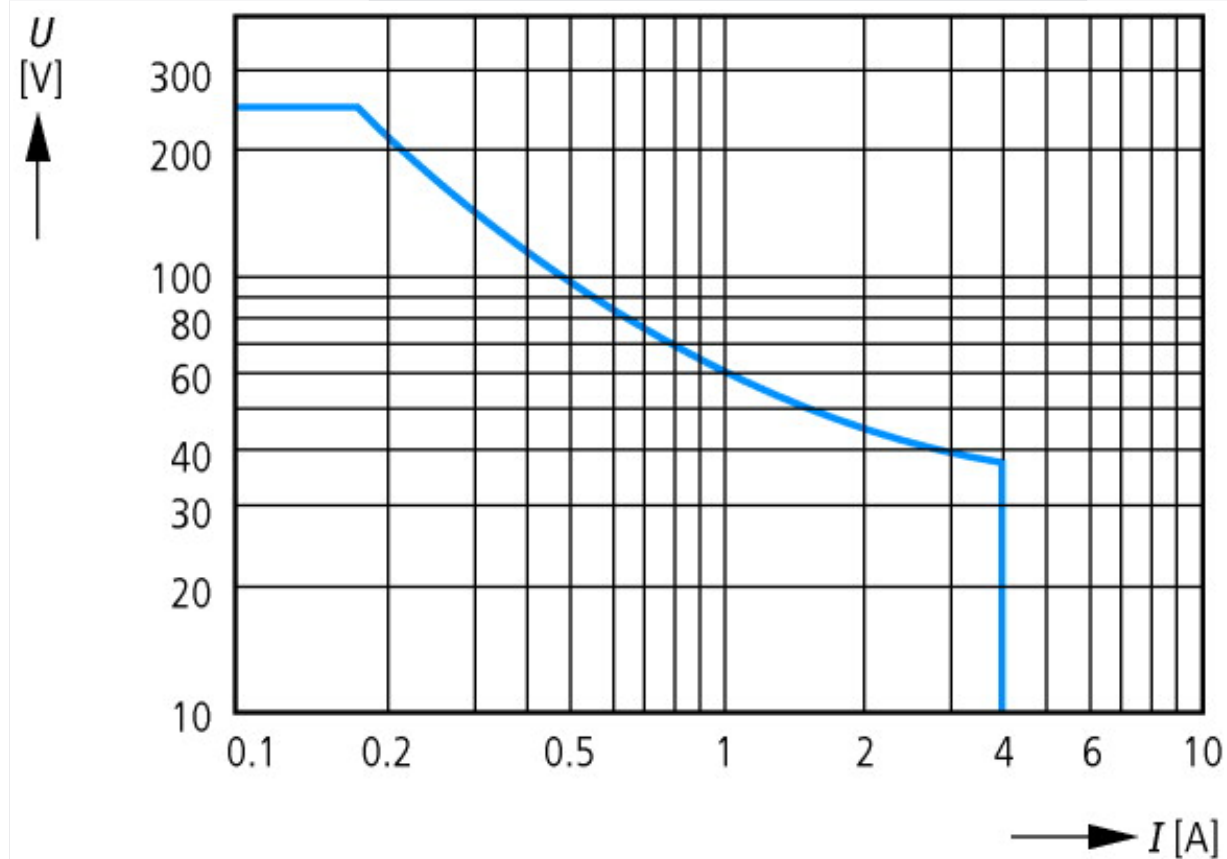
Approvals

			IEC 255-6; UL 508; CSA-22.2 No. 14-05; CE marking
			E29184
			NKCR, NKCR7
			UL report valid
			3211-03
			UL listed, certified by UL for use in Canada
			IEC: IP20, UL/CSA Type: -

Characteristics



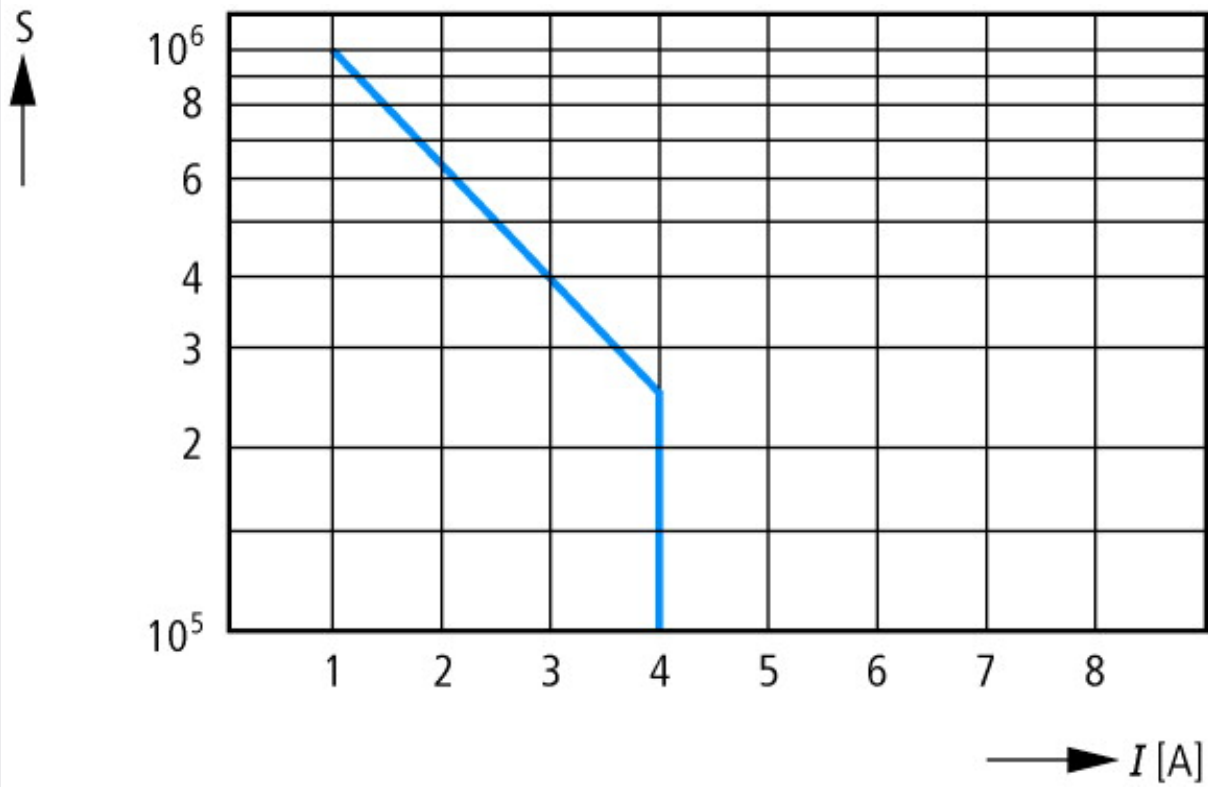
AC load (resistive)



DC load (resistive)

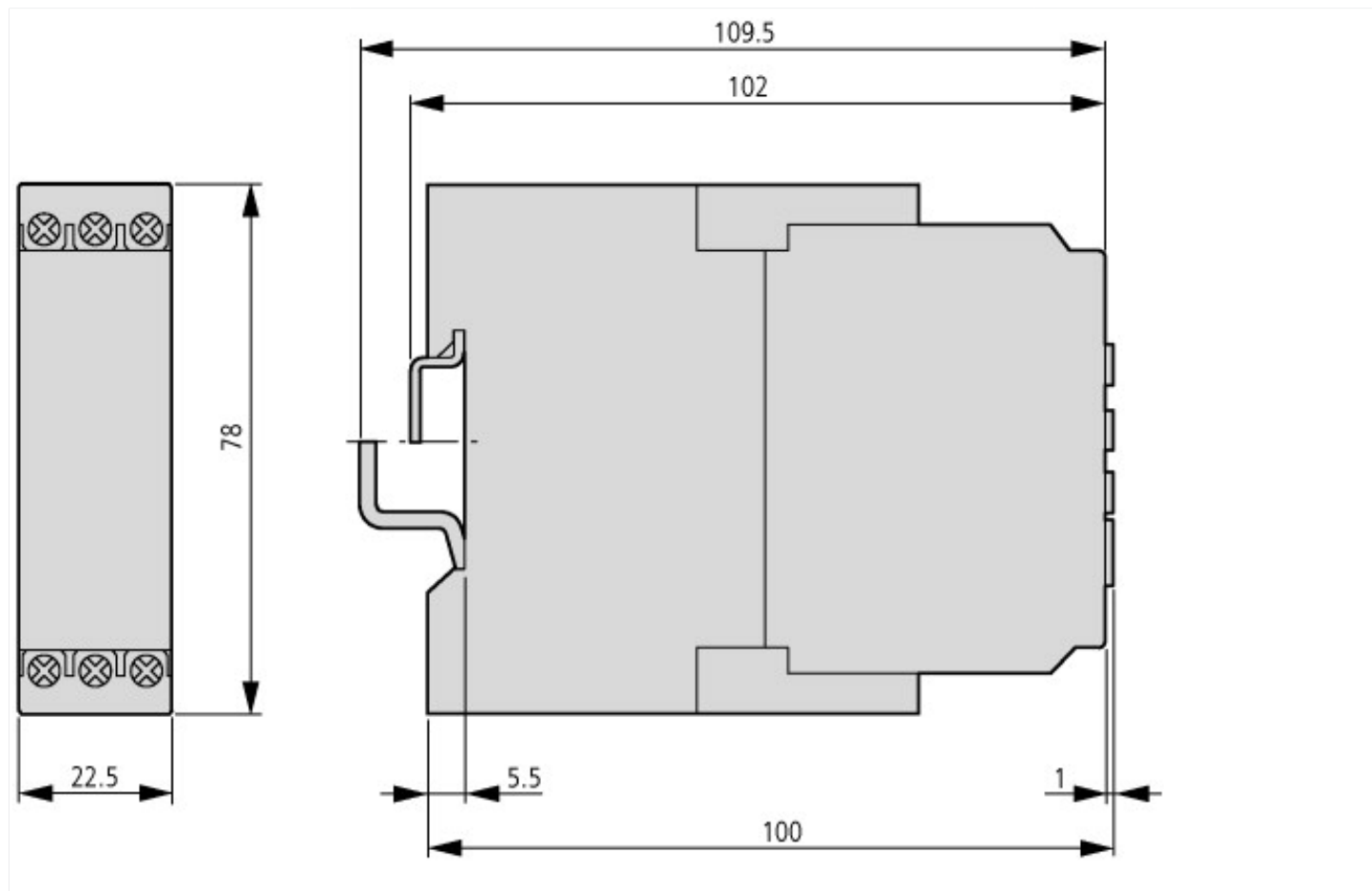


Derating factor F with inductive AC load



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>

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Industrial Relays](#) category:

Click to view products by [Eaton](#) manufacturer:

Other Similar products are found below :

[6-1618400-7](#) [686-117111](#) [686-120111](#) [EV250-6A-01](#) [FCA-125-CX8](#) [FCA-410-138](#) [8-1618393-1](#) [GCA32A208VAC60HZ](#)
[GCA32A220VAC50/60HZ](#) [GCA32A240VAC50/60HZ](#) [GCA32A48VAC60HZ](#) [GCA63A120VAC50/60HZ](#) [GCA63A208VAC60HZ](#)
[GCA63A230VAC50/60HZ](#) [GCA63A240VAC50/60HZ](#) [GCA63A277VAC60HZ](#) [GCA63A48VAC60HZ](#) [GCA63A500VAC50/60HZ](#)
[GCA800A200VACDC](#) [GCA95A110VAC50/60HZ](#) [GCA95A120VAC50/60HZ](#) [GCA95A12VDC](#) [GCA95A240VAC50/60HZ](#)
[GCA95A24VAC50/60HZ](#) [GCA95A48VAC60HZ](#) [ACC530U20](#) [ACC730U30](#) [1395832-1](#) [RM699BV-3011-85-1005](#) [RMIA210230AC](#)
[RMIA45024AC](#) [1423675-8](#) [B07B032AC1-0329](#) [B329](#) [1617807-1](#) [N417](#) [P25-E5019-1](#) [P30C42A12D1-120](#) [2-1618398-1](#) [PBO-18A1218](#)
[2307497](#) [RPYA00324LT](#) [RPYA003A120LT](#) [KR-4539-1](#) [RT334012WG](#) [S160156115](#) [2944795](#) [ACC1230U20](#) [ACC530U10](#) [ACC730-8025B](#)