DATASHEET - EMR5-AW300-1-C

Part no. Catalog No.

EL-Nummer

(Norway)



Phase monitoring relay, multi-function, 2W, 160-300V50/60Hz

EMR5-AW300-1-C 134223 Eaton Catalog No. EMR5-AW300-1-C 4110383



Delivery program

			This item will continue to be available for a limited time only and is being replaced by the following item: 184763, EMR6-AW300-C-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
Monitoring voltage per phase	U _N	V AC	160 - 300 V AC, 50/60 Hz
Monitoring of			Phase sequence Phase failure Overvoltage Undervoltage Imbalance
Threshold value			U _{max} 220 - 300 V AC U _{min} 160 - 230 V AC
Adjustable threshold values			Overvoltage Undervoltage Imbalance
Contact sequence			
Supply voltage			160 - 300 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

I _n	А	0
P _{vid}	W	0
P _{vid}	W	0
P _{vs}	W	2
P _{diss}	W	0
	°C	-25
	°C	60
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
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	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C

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

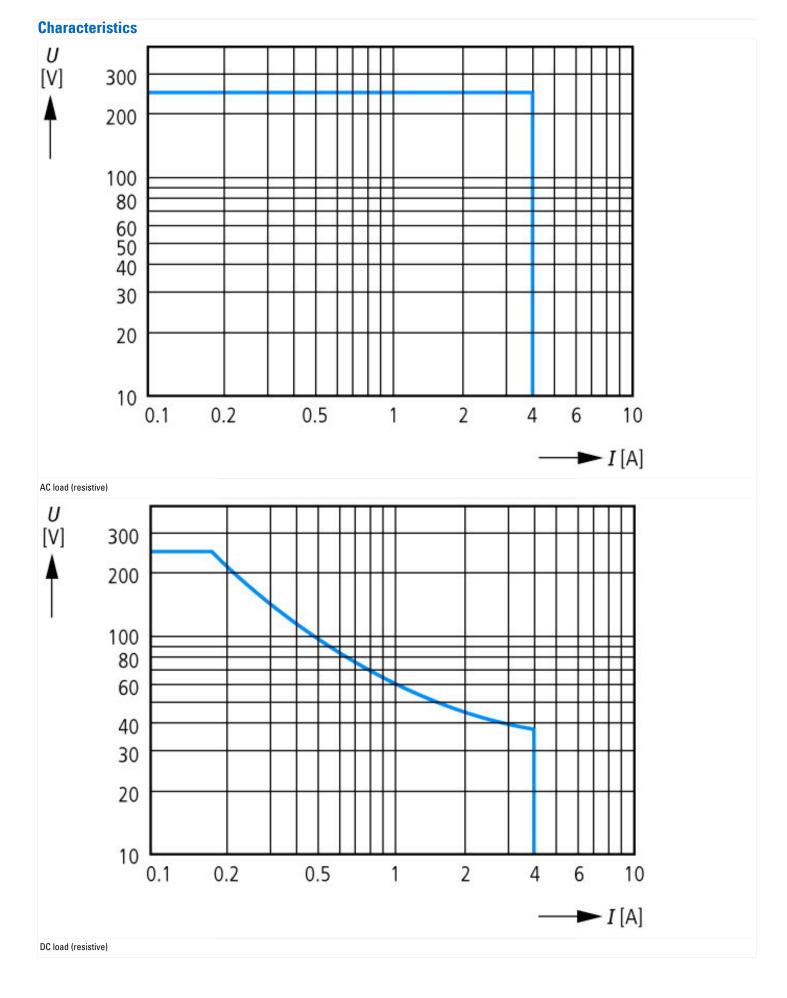
Relays (EG000019) / Phase monitoring relay (EC001441)

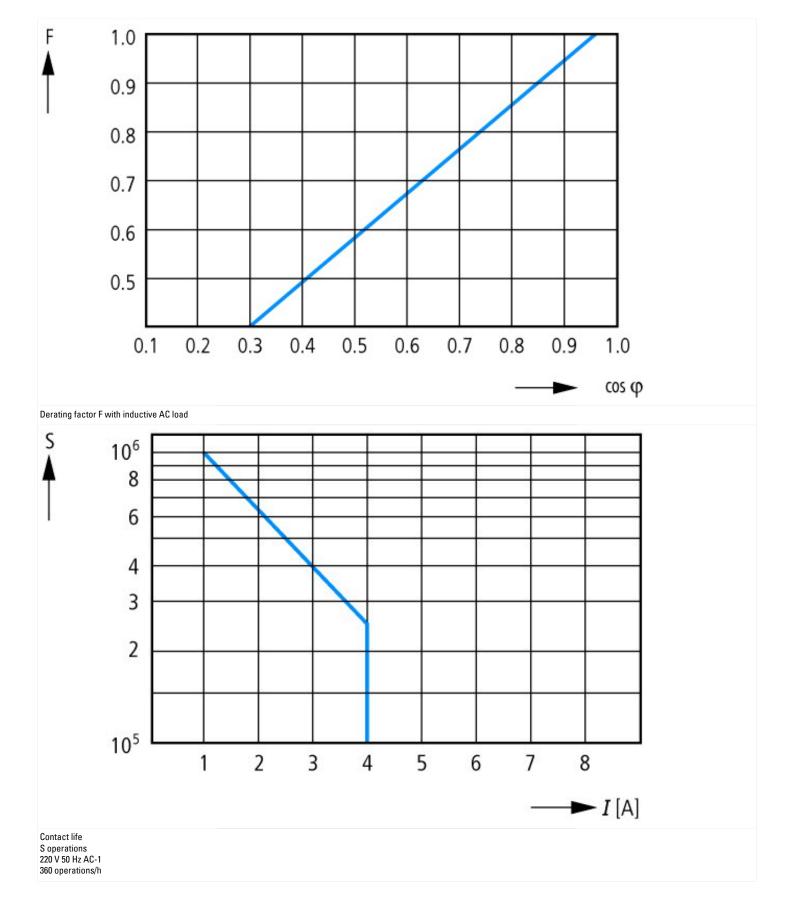
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Asymmetry monitoring equipment (ecl@ss10.0.1-27-37-18-03 [AKF097014])

Type of electric connection		Screw connection
With detachable clamps		No
Rated control supply voltage Us at AC 50HZ	V	0 - 300
Rated control supply voltage Us at AC 60HZ	V	0 - 300
Rated control supply voltage Us 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 - 300
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

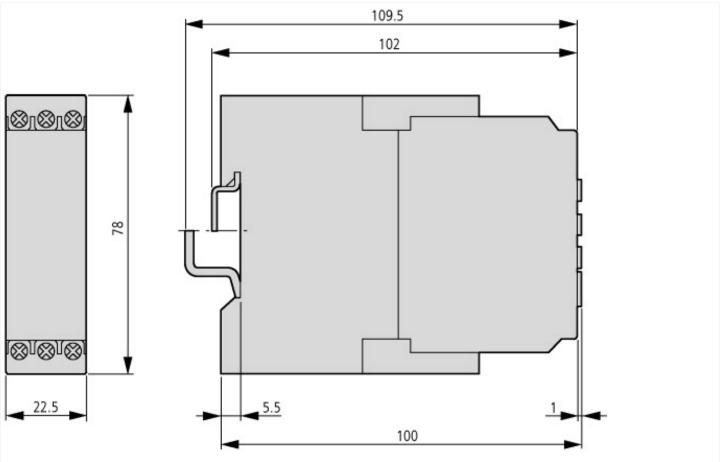
Approvals

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: -









Additional product information (links)

Phase monitoring relays

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