DATASHEET - EMR4-F500-2

Part no.

(Norway)

No.



Phase sequence relay, 3p, 2W, 200-500VAC

EMR4-F500-2 Catalog No. 221784 Alternate Catalog EMR4-F500-2 **EL-Nummer** 4133314



Delivery program

			This item will continue to be available for a limited time only and is being replaced by the following item: 184789, EMR4-F500-2
Product range			EMR Measuring and monitoring relays
Basic function			Phase sequence relays
			Monitoring of three-phase networks Phase failure detection at < 0.6 x U _e Power supply from the measuring circuit
Monitoring voltage per phase	U _N	V AC	200 - 500 V AC, 50/60 Hz
Monitoring of			Phase sequence Phase failure
Contact sequence			$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Supply voltage			200 - 500 V AC, 50/60 Hz

Phase sequence relays

Technical data

Technical data in sheet catalogue

Other technical data (sheet catalogue)

Design verification as per IEC/EN 61439

Design vernication as per icc/civ 01455			
Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	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	2
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-20
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

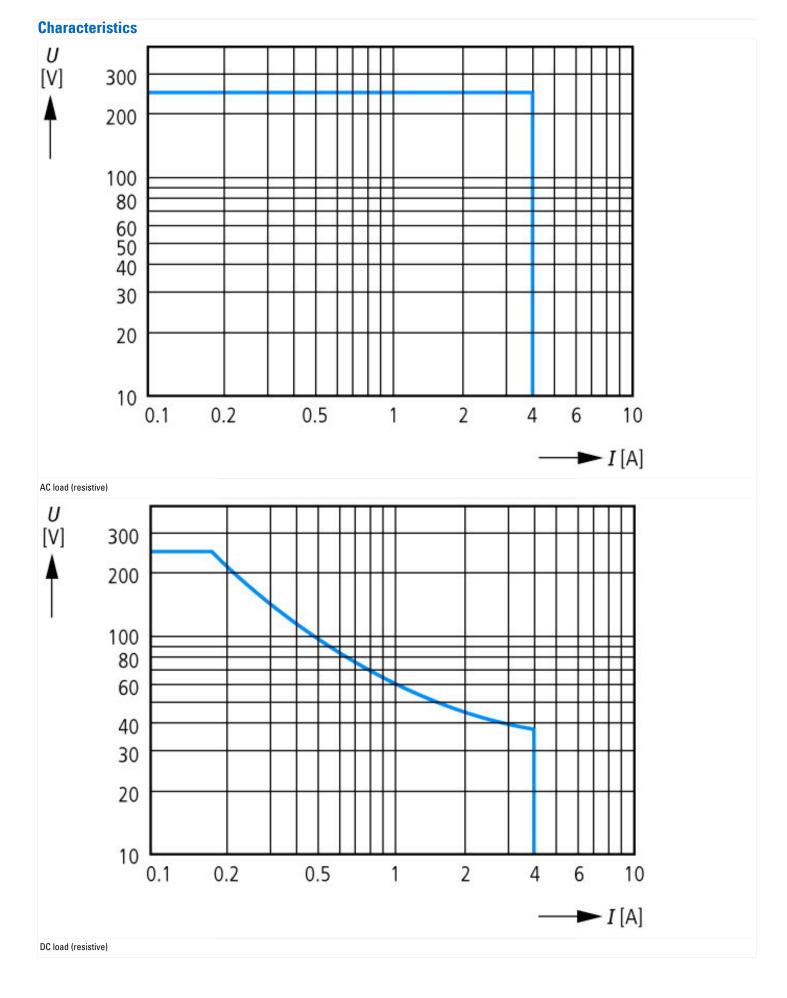
Relays (EG000019) / Phase monitoring relay (EC001441)

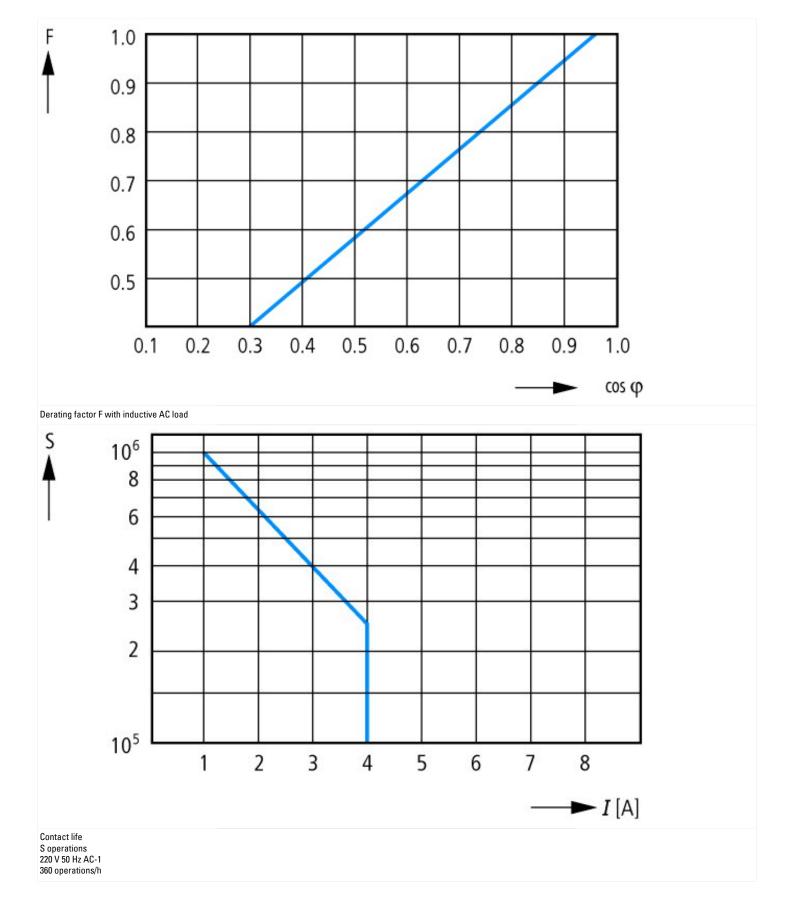
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Asymmetry monitoring equipment (ecl@ss10.0.1-27-37-18-03 [AKF097014])

Type of electric connection		Screw connection
With detachable clamps		No
Rated control supply voltage Us at AC 50HZ	V	200 - 500
Rated control supply voltage Us at AC 60HZ	V	200 - 500
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		No
Phase imbalance monitoring		No
Voltage measurement range	V	200 - 500
Min. adjustable delay-on energization time	s	0
Max. permitted delay-on energization time	s	0
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
Width	mm	23
Height	mm	78
Depth	mm	110

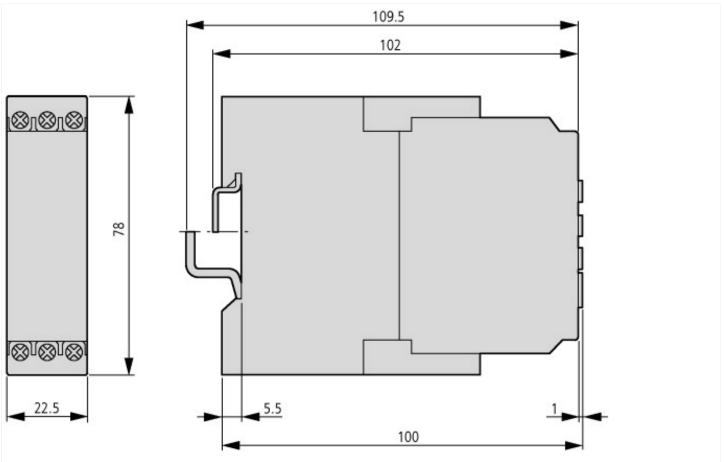
Approvals

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.	203843
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	IEC: IP20, UL/CSA Type: -





Dimensions



Additional product information (links)

IIL04914003Z (AWA2431-2694) Single-function three-phase monitoring relays		
	IIL04914003Z (AWA2431-2694) Single-function three-phase monitoring relays	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04914003Z2018_07.pdf
	Phase sequence relays	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.25