



## Insulation monitoring relay, 2W, 400VAC/ 600VDC

**Part no.** EMR5-R400-2-A  
**Article no.** 153444  
**Catalog No.** EMR5-R400-2-A

### Delivery program

Product range		EMR4+EMR5 measuring and monitoring relays
Basic function		Insulation monitoring relays
		Status indication via LEDs Open-circuit principle Test or reset with button on device or with control input Configurable fault memory/memory function Configurable non-volatile fault memory Wire break detection
Monitoring of		Insulation resistance in non-earthed AC supply systems (three-phase, four-phase systems) insulation resistance in non-earthed DC supply systems (three-phase systems)
Adjustable pick-up time		1 - 100 kΩ (shutdown) 2 - 200 kΩ (advance warning) Activation by dip switch
Contact sequence		
Supply voltage		24 - 240 V AC, 13,5 - 400 Hz 24 - 240 V DC
Rated operating voltage for the supply system being monitored		0 - 400 V AC 0 - 600 V DC
Width	mm	45

### Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.	°C		-25
Operating ambient temperature max.	°C		65

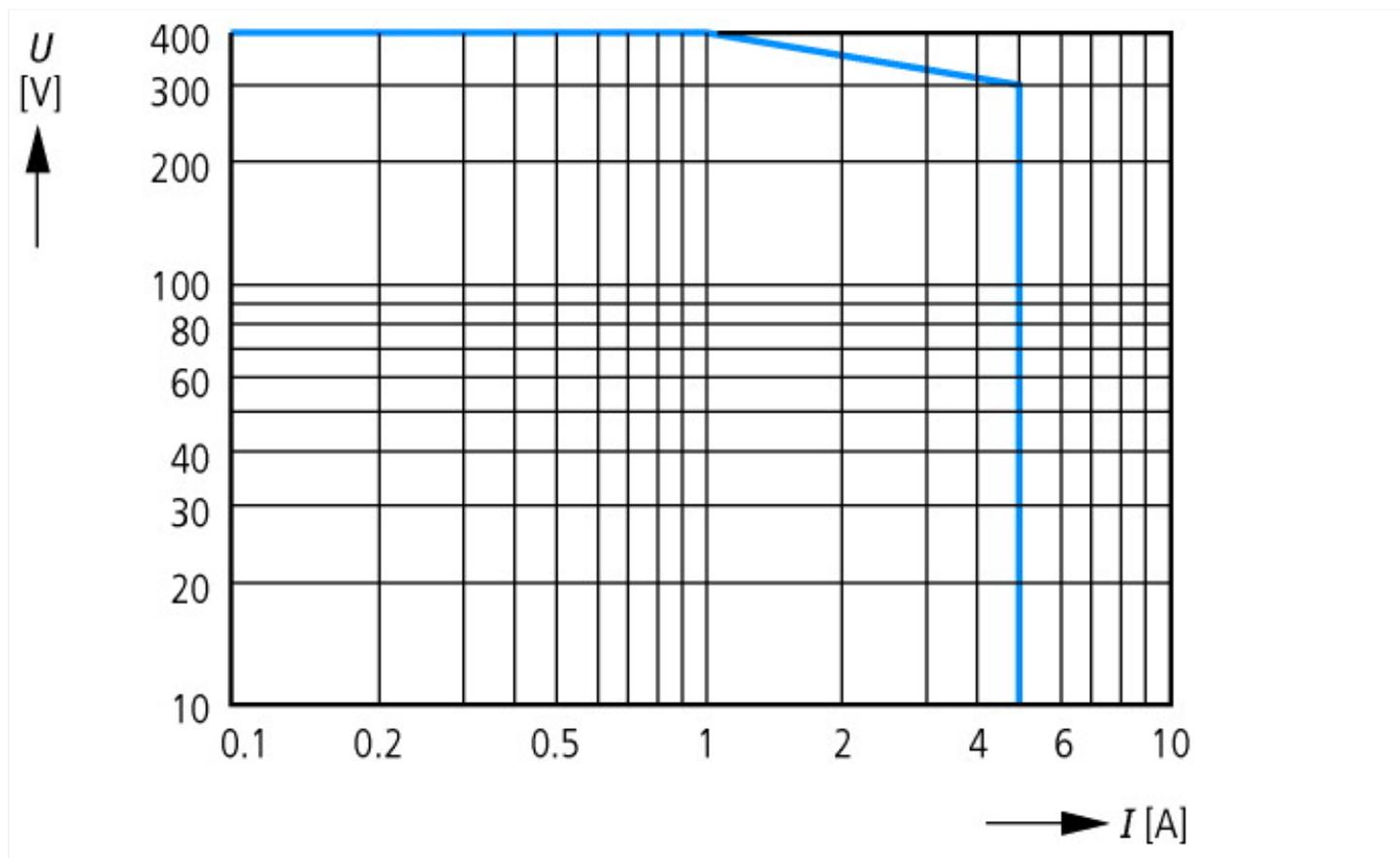
### Technical data ETIM 6.0

Relays (EG000019) / Insulation and earth fault monitoring relay (EC001444)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Insulation-/earth connection monitoring equipment (ec1@ss8.1-27-37-18-07 [AKF101011])			
Type of electric connection			Screw connection
Rated control supply voltage $U_s$ at AC 50HZ	V		0 - 0
Rated control supply voltage $U_s$ at AC 60HZ	V		0 - 0
Rated control supply voltage $U_s$ at DC	V		0 - 0
Voltage type for actuating			AC/DC
With detachable clamps			No
Function			For mixed system
Rated voltage	V		0 - 0
Nominal rated frequency	Hz		0 - 0
Line capacity	μF		0
Response value impedance 1	kΩhm		0 - 0
Response value impedance 2	kΩhm		0 - 0
Indication of insulation value			No
Error registration possible			No
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		0
Height	mm		78
Depth	mm		100

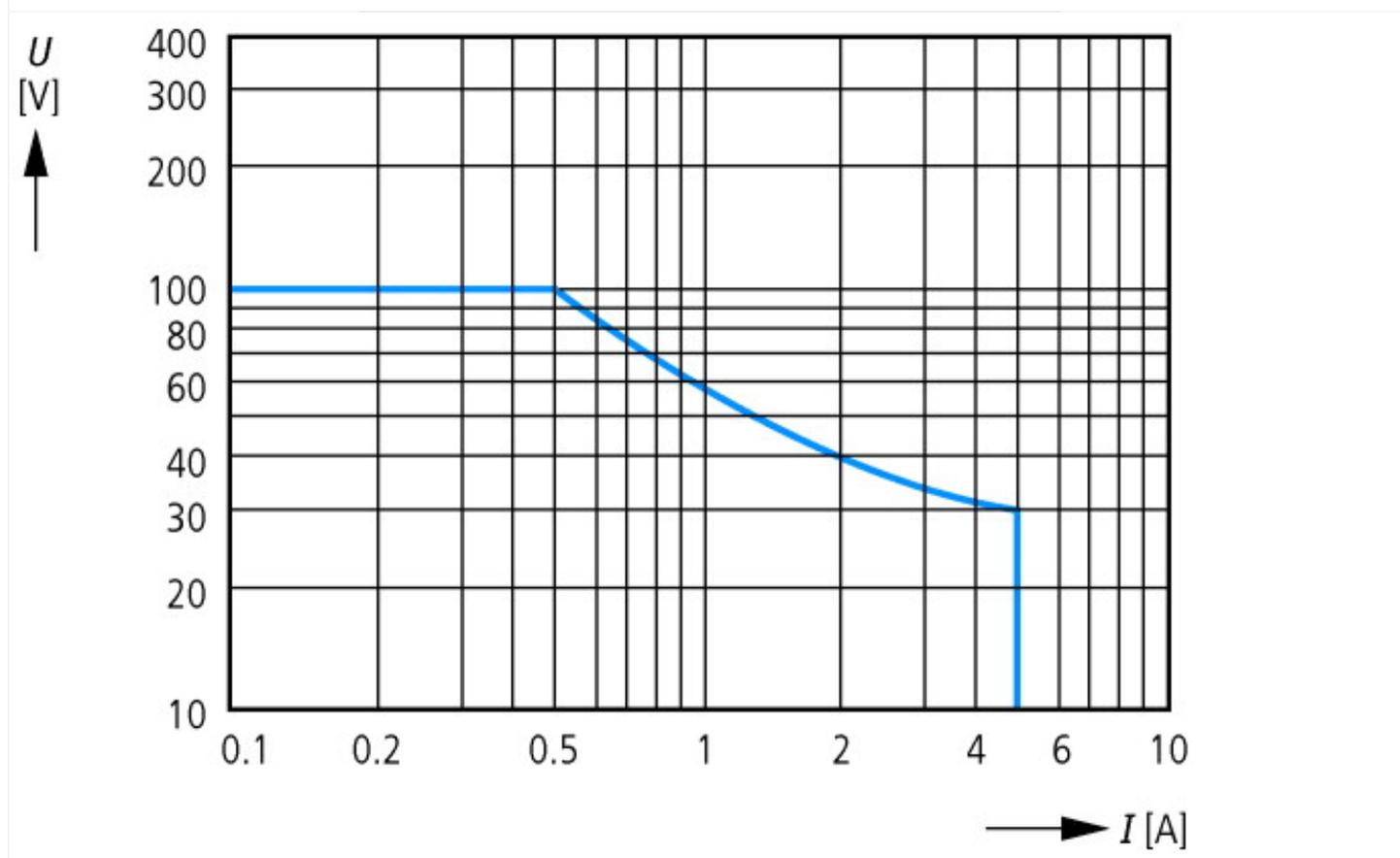
## Approvals

Product Standards	IEC 60255-6; IEC 61557-8; UL 508; CSA-22.2 No. 14-05; CE marking
UL File No.	E29184
UL Category Control No.	NKCR, NKCR7
North America Certification	UL listed, CSA certified
Degree of Protection	IEC: IP20, UL/CSA Type: -

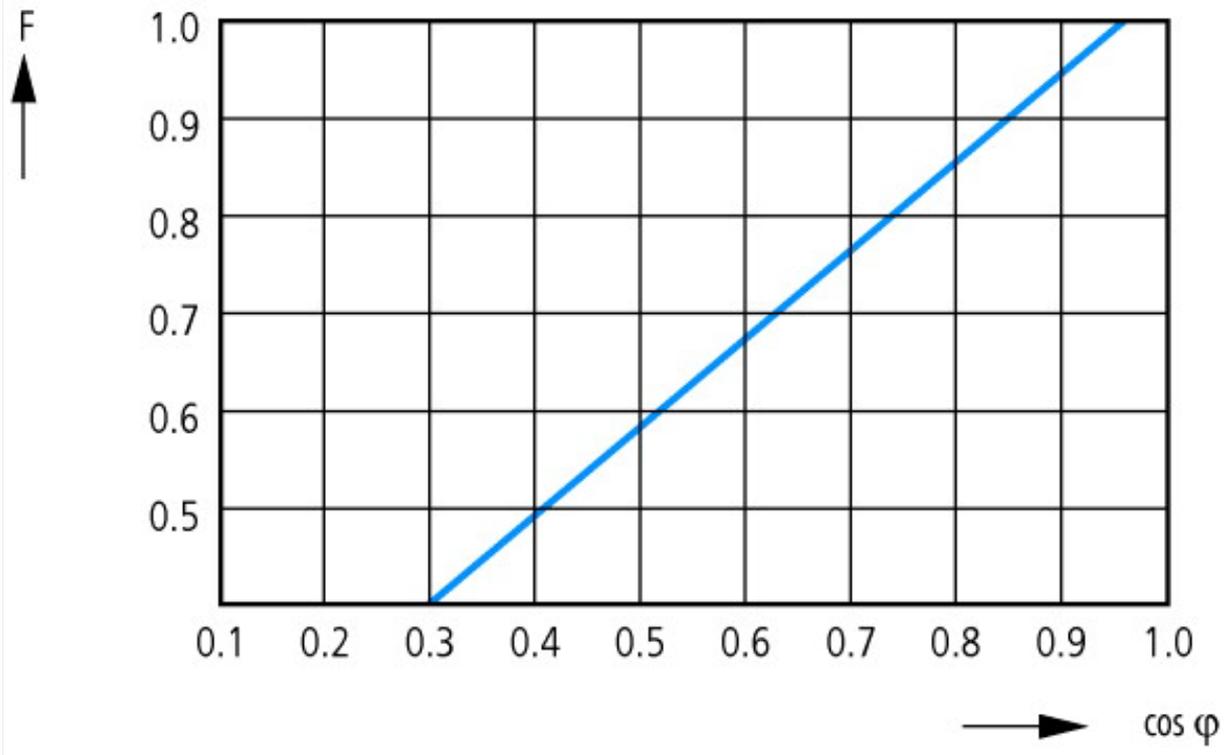
## Characteristics



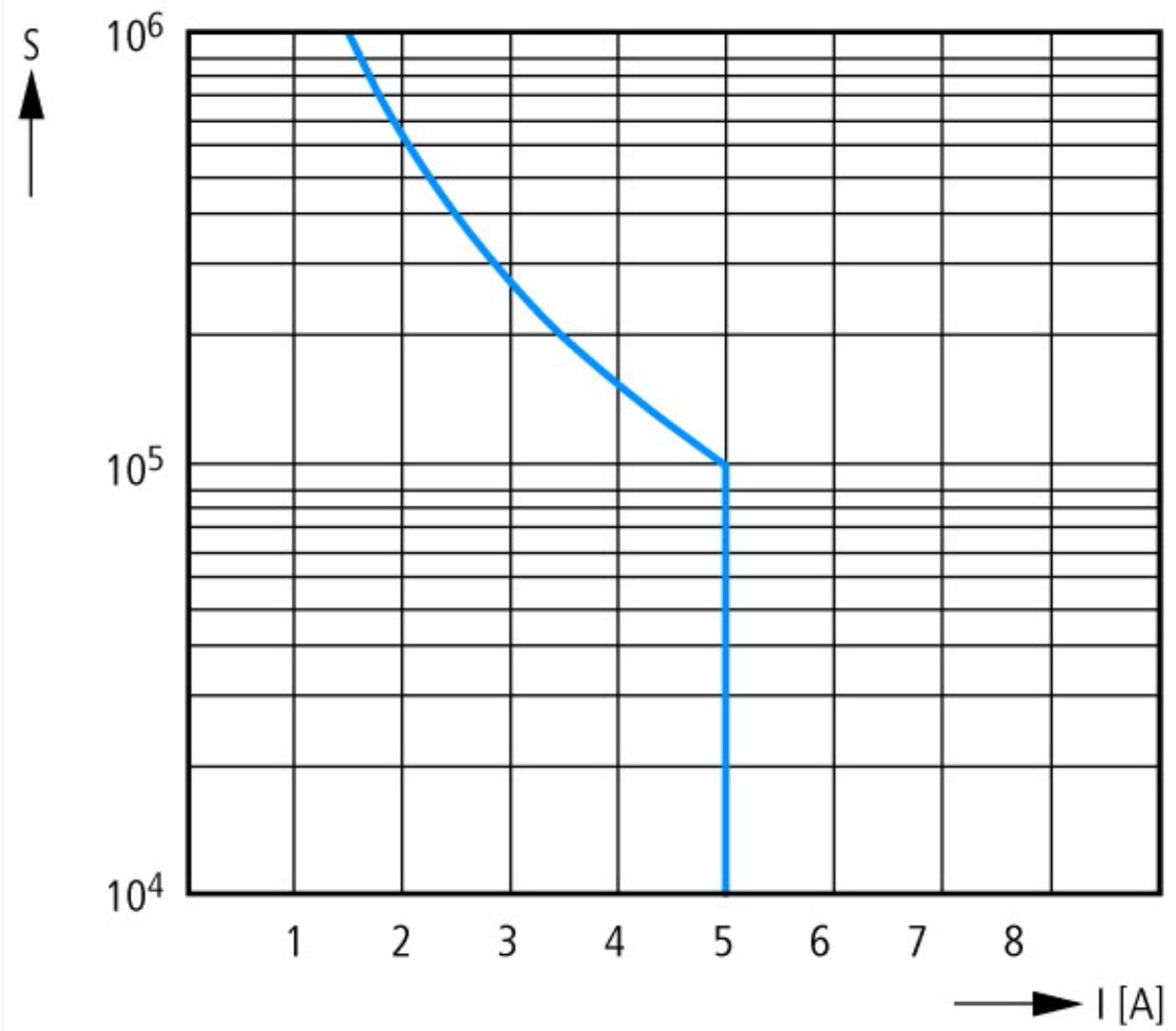
AC load (resistive)



DC load (resistive)

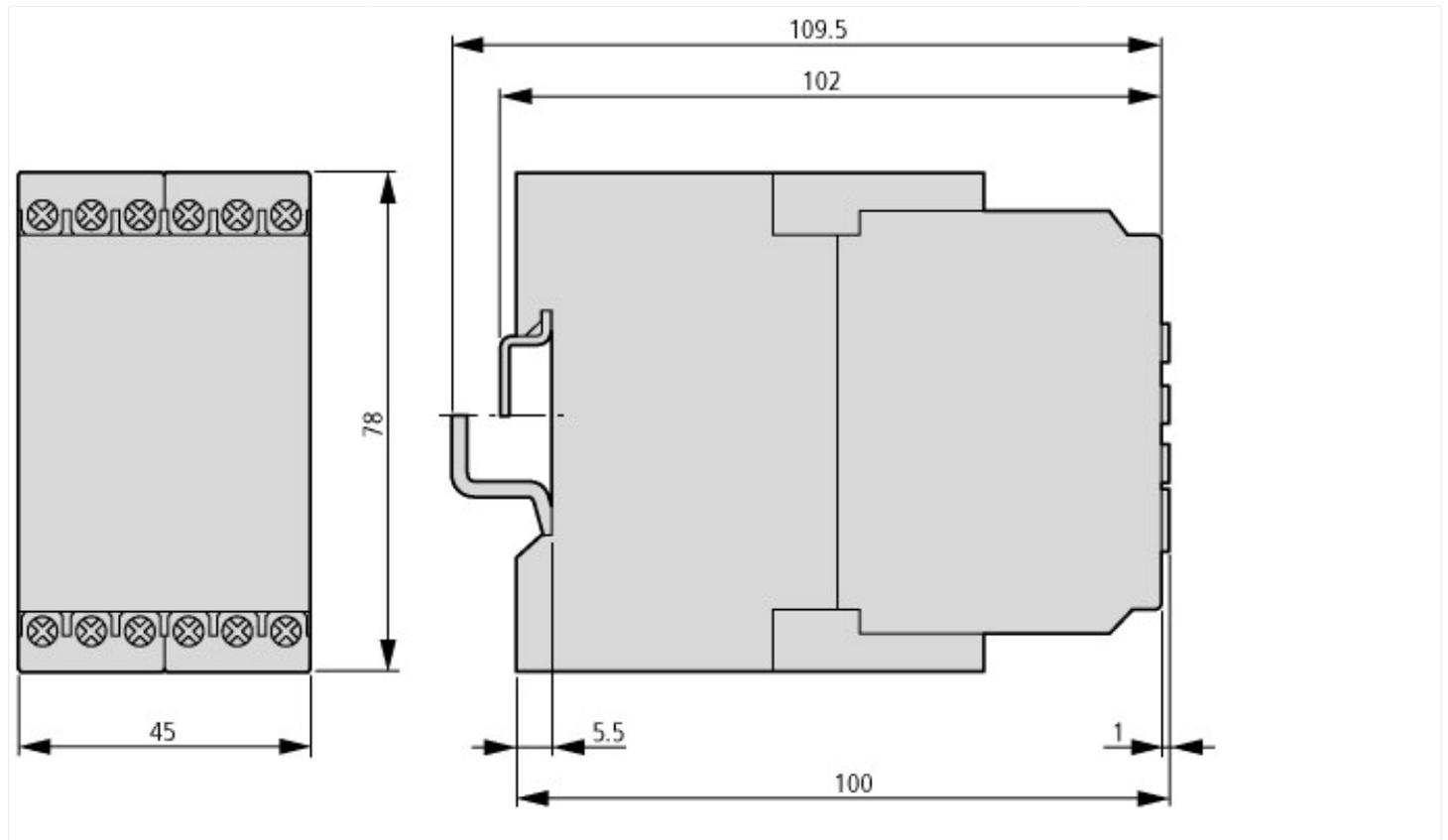


Derating factor F with inductive AC load



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

## Dimensions



## Additional product information (links)

### IL04912005Z Insulation monitoring relays

IL04912005Z Insulation monitoring relays [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04912005Z2016\\_03.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04912005Z2016_03.pdf)

### IL04912006Z Coupling unit for insulation monitoring relay EMR5-R400-2-A

IL04912006Z Coupling unit for insulation monitoring relay EMR5-R400-2-A [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04912006Z2016\\_03.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04912006Z2016_03.pdf)