

Monitoring Relays

3UG Monitoring Relays for Electrical and Additional Measurements

Insulation monitoring
for ungrounded AC networks

Technical specifications

				3UG3 081
Control circuits				
Operating range of the control supply voltage				-15 % ... +10 %
Rated power	24 ... 240 V AC/DC	VA/W	8/2	
	110 ... 130 V AC	VA	3	
	220 ... 240 V AC	VA	3	
Frequency of the rated control supply voltage				Hz 50 ... 60
Measurement circuits L/PE/ground				
• Operating value		k	1 ... 110	
• Minimum internal resistance for AC		k	100	
• Minimum internal resistance for DC		k	100	
• DC measurement voltage		V	30 DC	
• Insulation voltage		V	415 AC	
• Reset/test function terminals (max. 10 m)			Y1-Y2	
• Delay time in case of response		s	1	
Output relay				1 CO contact, open-circuit principle
General data				
Rated insulation voltage U_i	between supply, measurement, and output circuit	V	400 acc. to IEC 60947-1	
Overvoltage category	acc. to IEC 664		III	
Degree of pollution	acc. to IEC 664		3	
Impulse withstand voltage U_{imp}	acc. to VDE 0435, Part 303	kV	4	
Degree of protection	acc. to EN 60529		IP50 enclosure, IP20 terminals	
Shock resistance	acc. to IEC 60068 Part 2-27	g/ms	10	
Vibration resistance	acc. to IEC 60068-2-6	Hz/mm	10-55/0.35	
Permissible ambient temperature				
• During operation		°C	-25 ... 65	
• During storage		°C	-40 ... 85	
Permissible mounting position				Any
Conductor cross-section	Solid	mm ²	2 x 0.75 ... 2.5	
	Finely stranded with end sleeve	mm ²	2 x 0.75 ... 2.5	