Current monitoring

Technical specifications							
		3UG46 21AA	3UG46 21AW	3UG46 22AA	3UG46 22AW		
General data		30G46 21AA	30G46 21AW	30G46 22AA	30G46 22AW		
Rated control supply voltage U _s	V	24	24 240	24	24 240		
Rated frequency	Hz	50/60	212.0		212.0		
Operating range	V	20.4 26.4	20.4 264	20.4 26.4	20.4 264		
Rated power	W/VA	2/4	20.1201	20.120.1	20.1201		
Width	mm	22.5					
RESET		Automatic/ manual					
Availability time after application of U_s	ms	1000					
Response time once a switching threshold is reached	ms	Max. 450					
Adjustable tripping delay time/ON-delay time	S	0.1 20					
Mains buffering time, minimum	ms	10					
Rated insulation voltage <i>U</i> _i	V	690					
Degree of pollution 3; overvoltage category III acc. to VDE 0110	V	000					
Rated impulse withstand voltage <i>U</i> _{imp}	kV	6					
Safe isolation acc. to EN 60947-1	V	300					
Permissible ambient temperature							
During operation During storage	°C	-25 +60					
• During storage	°C	-40 +85 IEC 60947-1/ IEC 61000-6-2 / IEC 61000-6-4					
EMC tests ¹⁾		IEC 60947-1/ IEC	6 1000-6-2 / IEC 6	1000-6-4			
Degree of protection • Enclosures • Terminals		IP40 IP20					
Vibration resistance acc. to IEC 60068-2-6		1 6 Hz: 15 mm; 6 500 Hz: 2 <i>g</i>					
Shock resistance acc. to IEC 60068-2-27	ock resistance acc. to IEC 60068-2-27			12 shocks (half-sine 15 g/11 ms)			
Connection type	Screw terminals						
Terminal screw Solid Finely stranded with end sleeve AWG cables, solid or stranded Tightening torque	mm ² mm ² AWG Nm	M 3 (standard screwdriver, size 2 and Pozidriv 2) 1 x (0.5 4) / 2 x (0.5 2.5) 1 x (0.5 2.5) / 2 x (0.5 1.5) 2 x (20 14) 0.8 1.2					
Connection type		Spring-loaded terminals					
Solid Finely stranded, with end sleeves acc. to DIN 46228 Finely stranded AWG cables, solid or stranded	mm ² mm ² mm ² AWG	2 x (0.25 1.5) 2 x (0.25 1.5) 2 x (0.25 1.5) 2 x (24 16)					
Measuring circuit	7,1110	Z X (Z 1 10)					
Measuring range for single-phase AC/DC current	А	0.003 0.6		0.05 15			
Setting range for single-phase current	A	0.003 0.5		0.05 10			
Load supply voltage	V	24	Max. 300 ²⁾ Max. 500 ²⁾	24	Max. 300 ²⁾ Max. 500 ³⁾		
Measuring accuracy	%	5	Wax. 000		Wax. 500		
Repeat accuracy at constant parameters	%	1					
Accuracy of digital display	/0	±1 digit					
Deviations for temperature fluctuations	%/°C	±0.1					
Hysteresis for single-phase current	70/ U	0.1 250 mA		0.01 5 A			
Permissible overcurrent, continuous	A	0.1 250 IIIA		15			
Permissible overcurrent. < 1 s	A	5		50			
	A	2					
Protection against destruction, DIAZED gL/gG Measuring circuit internal resistance, shunt	mΩ	500		16 5			
Control circuit	11122	500		J			
Load capacity of the output relay • Thermal current I _{th}	А	5					
Rated operational current I_e at							
• AC-15/24 400 V • DC-13/24 V • DC-13/125 V	A A A	3 1 0.2					
• DC-13/250 V	Α	0.1					
Minimum contact load at 17 V DC	mA	5					
Output relay with DIAZED fuse gL/gG	Α	4					
Electrical endurance AC15	Million oper. cycles	0.1					
Endurance with contactor relay	Million oper. cycles	10					

¹⁾ Caution: This is a Class A product. In the household environment this device may cause radio interference. In this case the user must introduce suitable measures.

²⁾ With safe isolation.

³⁾ With standard isolation.