SIEMENS

Product data sheet

3UG4614-1BR20



DIGITAL MONITORING RELAY UNBALANCE 0-20% REVERSIBLE PHASE SEQUENCE PHASE FAILURE 3X 160 TO 690V AC 50 TO 60 HZ UNDERVOLTAGE 160-690V HYSTERESIS 1-20V ON AND OFF DELAY 0-20S 2 CHANGEOVER CONTACTS SCREW TERMINAL REPLACEMENT PRODUCT FOR 3UG3012-1A...

Product function		Phase monitoring relay
Measuring circuit:		
Type of current / for monitoring		AC
Number of poles / for main current circuit		3
Measurable voltage		
• for AC	V	160 690
Adjustable voltage range	V	160 690
Adjustable response delay time		
when starting	S	0.1 20
with lower or upper limit violation	S	0.1 20
Relative adjustment accuracy	%	0.2
Relative metering precision	%	5
Precision of digital display		+/-1 digit
Relative repeat accuracy	%	1
General technical details:		
Design of the display		LCD
Type of display / LED		No
Product function		
undervoltage recognition		Yes
overvoltage recognition		No

phase sequence recognition		Yes
phase disturbance recognition		Yes
asymmetry recognition		Yes
 overvoltage recognition of 3 phases 		No
 undervoltage recognition of 3 phases 		Yes
 tension window recognition of 3 phases 		No
• self-reset		Yes
open-circuit or closed-circuit current principle		Yes
Starting time / after the control supply voltage has been applied	ms	1,000
Response time / maximum	ms	450
Voltage type / of control feed voltage		AC
Control supply voltage		
• at 50 Hz / at AC		
rated value	V	160 690
• at 60 Hz / at AC		
rated value	V	160 690
Operating range factor control supply voltage rated value		
• at 50 Hz		
• for AC		11
• at 60 Hz		
• for AC		11
Impulse voltage resistance / rated value	kV	6
Recorded real power	W	2
Protection class IP		IP20
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Resistance against vibration / according to IEC 60068-2-6		1 6 Hz: 15 mm, 6 500 Hz: 2g
Resistance against shock / according to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Installation altitude / at a height over sea level / maximum	m	2,000
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV
Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5		2 kV
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV
Electrostatic discharge / according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m
Insulation voltage / for overvoltage category III according to IEC 60664 / with degree of pollution 3 / rated value	V	690
Degree of pollution		3
Ambient temperature		
during operating	°C	-25 +60

during storage	°C	-40 +85
during transport	°C	-40 +85
Galvanic isolation		
between entrance and outlet		Yes
between the outputs		Yes
 between the voltage supply and other circuits 		Yes

Mechanical design:		
Width	mm	22.5
Height	mm	92
Depth	mm	91
mounting position		any
Distance, to be maintained, to earthed part		
• forwards	mm	0
backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Distance, to be maintained, to the ranks assembly		
forwards	mm	0
backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Distance, to be maintained, conductive elements		
forwards	mm	0
backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Mounting type		snap-on mounting
Product function / removable terminal for auxiliary and control circuit		Yes
Design of the electrical connection		screw-type terminals
Type of the connectable conductor cross-sections		
• solid		1x (0.5 4 mm2), 2x (0.5 2.5 mm2)
finely stranded		
with wire end processing		1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
for AWG conductors		
• solid		2x (20 14)

• stranded		2x (20 14)		
Tightening torque				
with screw-type terminals	N∙m	0.8 1.2		
Outputs:				
Number of NO contacts / delayed switching 0				
Number of NC contacts / delayed switching		0		
Number of change-over switches / delayed switching		2		
Current carrying capacity / of output relay				
• at AC-15				
• at 250 V / at 50/60 Hz	А	3		
• at 400 V / at 50/60 Hz	А	3		
• at DC-13				
• at 24 V	А	1		
• at 125 V	А	0.2		
• at 250 V	А	0.1		
Thermal current / of the contact-affected switching element / maximum	A	5		
Operating current / at 17 V / minimum	mA	5		
Continuous current / of the DIAZED fuse link of the output relay	А	4		
Mechanical operating cycles as operating time / typical		10,000,000		
Electrical operating cycles as operating time / at AC-15 / at 230 V / typical		100,000		
Operating cycles / with 3RT2 contactor / maximum	1/h	5,000		

Certificates/approvals:

General Product A	pproval	EMC	Test Certificates	Test Certificates	
		С-ТІСК	Special Test Certificate	<u>Type Test</u> Certificates/Test Report	
Shipping Approval			other		
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Further information:

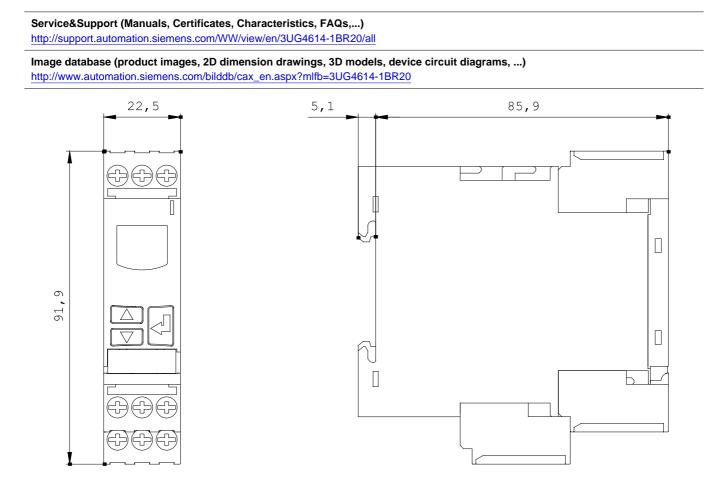
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last change:

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