



ANALOG MONITORING RELAY PHASE FAILURE AND -
SEQUENCE ADJUSTABLE UNDERVOLTAGE
UNBALANCE 20% FIXED 3X 160 TO 690V AC 50 TO 60 HZ
HYSTERESIS 5% FIXED DELAY TIME 0-20S 2
CHANGEOVER CONTACTS SCREW TERMINAL
REPLACEMENT PRODUCT FOR 3UG3013-1B...

Product function	Phase monitoring relay
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Measuring circuit:

Type of voltage / for monitoring	AC
Number of poles / for main current circuit	3
Measurable voltage • for AC	V 160 ... 690
Adjustable voltage range	V 200 ... 690
Relative metering precision	% 5
Relative repeat accuracy	% 1

General technical details:

Type of display / LED	Yes
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

<ul style="list-style-type: none"> • self-reset 		Yes
<ul style="list-style-type: none"> • open-circuit or closed-circuit current principle 		No
Starting time / after the control supply voltage has been applied	ms	1,000
Response time / maximum	ms	450
Type of voltage / of the controlled supply voltage		AC
Control supply voltage		
<ul style="list-style-type: none"> • at 50 Hz / at AC <ul style="list-style-type: none"> • rated value 	V	160 ... 690
<ul style="list-style-type: none"> • at 60 Hz / at AC <ul style="list-style-type: none"> • rated value 	V	160 ... 690
Operating range factor control supply voltage rated value		
<ul style="list-style-type: none"> • at 50 Hz <ul style="list-style-type: none"> • for AC 		1 ... 1
<ul style="list-style-type: none"> • at 60 Hz <ul style="list-style-type: none"> • for AC 		1 ... 1
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		
<ul style="list-style-type: none"> • during operating 	°C	-25 ... +60
<ul style="list-style-type: none"> • during storage 	°C	-40 ... +85
<ul style="list-style-type: none"> • during transport 	°C	-40 ... +85
Galvanic isolation		
<ul style="list-style-type: none"> • between entrance and outlet 		Yes
<ul style="list-style-type: none"> • between the outputs 		Yes
<ul style="list-style-type: none"> • between the voltage supply and other circuits 		Yes