SIEMENS

Data sheet

3UG4632-1AA30



Digital monitoring relay Voltage monitoring, 22.5 mm from 10 to 600 V AC/DC 0vershoot and undershoot Supply voltage: 24 V AC/DC 50 to 60 Hz DC and AC without galvanic isolation to measuring circuit Noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 300 V 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3532-1AC..

product brand name	SIRIUS			
product designation	Voltage monitoring relay with digital setting			
product type designation	3UG4			
General technical data				
product function	Voltage monitoring relay			
design of the display	LCD			
insulation voltage for overvoltage category III according to IEC 60664				
 with degree of pollution 3 rated value 	690 V			
type of voltage				
 for monitoring 	AC/DC			
 of the control supply voltage 	AC/DC			
surge voltage resistance rated value	4 kV			
maximum permissible voltage for safe isolation				
 between auxiliary and auxiliary circuit 	300 V			
 between control and auxiliary circuit 	300 V			
protection class IP	IP20			
shock resistance acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms			
vibration resistance acc. to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g			
mechanical service life (switching cycles) typical	10 000 000			
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000			
thermal current of the switching element with contacts maximum	5 A			
reference code acc. to IEC 81346-2	К			
relative repeat accuracy	1 %			
Substance Prohibitance (Date)	01.05.2012 00:00:00			
Product Function				
product function				
 undervoltage detection 	Yes			
 overvoltage detection 	Yes			
 overvoltage detection 1 phase 	Yes			
 overvoltage detection 3 phase 	No			
 overvoltage detection DC 	Yes			
 undervoltage detection 1 phase 	Yes			
 undervoltage detection 3 phases 	No			
 undervoltage detection DC 	Yes			
 voltage window recognition 1 phase 	Yes			
 voltage window recognition 3 phase 	No			
 voltage window recognition DC 	Yes			

adjustable open/closed-circuit current principle	Yes			
external reset	Yes			
auto-RESET	Yes			
Control circuit/ Control				
control supply voltage at AC				
• at 50 Hz rated value	24 V			
• at 60 Hz rated value	24 V			
control supply voltage at DC				
rated value	24 V			
operating range factor control supply voltage rated value at DC				
 initial value 	0.85			
full-scale value	1.15			
operating range factor control supply voltage rated value at AC at 50 Hz				
initial value	0.85			
full-scale value	1.15			
operating range factor control supply voltage rated value at AC at 60 Hz				
initial value	0.85			
full-scale value	1.15			
Measuring circuit				
measurable line frequency	40 500 Hz			
measurable voltage at DC	10 600 V			
adjustable response delay time				
 with lower or upper limit violation 	0.1 20 s			
accuracy of digital display	+/-1 digit			
relative temperature-related measurement deviation	0.1 %			
Precision				
relative metering precision	5 %			
Auxiliary circuit				
number of NC contacts delayed switching	0			
number of NO contacts delayed switching	0			
number of CO contacts delayed switching	1			
operating frequency with 3RT2 contactor maximum	5 000 1/h			
Main circuit				
number of poles for main current circuit	1			
Outputs				
operational current at 17 V minimum	5 mA			
continuous current of the DIAZED fuse link of the	4 A			
output relay				
Electromagnetic compatibility				
conducted interference				
 due to burst acc. to IEC 61000-4-4 	2 kV			
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV			
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV			
field-based interference acc. to IEC 61000-4-3	10 V/m			
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge			
Galvanic isolation				
design of the electrical isolation	Protective separation			
galvanic isolation				
 between input and output 	Yes			
 between the outputs 	Yes			
 between the voltage supply and other circuits 				
Connections/ Terminals	No			
product component removable terminal for auxiliary and control circuit				
product component removable terminal for auxiliary	No			

• solid	1x (0.5 4 mm2), 2x (0.5	1x (0.5 4 mm2), 2x (0.5 2.5 mm2)			
 finely stranded with core end processing 	1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)				
 at AWG cables solid 	2x (20 14)				
 at AWG cables stranded 	2x (20 14)				
connectable conductor cross-section					
• solid	0.5 4 mm²				
 finely stranded with core end processing 	0.5 2.5 mm²				
AWG number as coded connectable conductor cross					
section					
• solid	20 14				
stranded	20 14				
tightening torque with screw-type terminals	1.2 0.8 N·m				
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	snap-on mounting				
height	92 mm				
width	22.5 mm				
depth	91 mm				
required spacing					
 with side-by-side mounting 					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— downwards	0 mm	0 mm			
— at the side	0 mm				
 for grounded parts 					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— at the side	0 mm				
— downwards	0 mm				
 for live parts 					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— at the side	0 mm				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
 during operation 	-25 +60 °C				
during storage	-40 +85 °C				
 during transport 	-40 +85 °C				
Certificates/ approvals					
		Declaration of			
General Product Approval	EMC	Conformity	Test Certificates		
		~ ~	Special Test Certific-		
	/ (A)	(E	ate		
	RCM	EG-Konf.			
Test Certificates Marine / Shipping	other	Railway			
Type Test Certific- ates/Test Report	Confirmation	Vibration and Shock			
ates/Test Report Register					
LRS Ewalcowe					

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4632-1AA30 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4632-1AA30 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AA30 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4632-1AA30&lang=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AA30/manual

last modified:

7/1/2021 🖸