SIEMENS

Data sheet 3UG4632-2AA30



Digital monitoring relay Voltage monitoring, 22.5 mm from 10 to 600 V AC/DC Overshoot 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 spring-type connection system

product brand name	SIRIUS
product designation	Voltage monitoring relay with digital setting
product type designation	3UG4
eneral 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 protective separation	
 between auxiliary and auxiliary circuit 	300 V
 between control and auxiliary circuit 	300 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance according to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	К
relative repeat accuracy	1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
roduct 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

	V
voltage window recognition DC directable are grades and aliquid account arise in terms.	Yes
adjustable open/closed-circuit current principle	Yes
external reset	Yes
auto-RESET Control circuit/ Control	Yes
control supply voltage at AC • at 50 Hz rated value	24 V
at 50 Hz rated value at 60 Hz rated value	24 V
control supply voltage at DC rated value	Z4 V
Tated 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	1.10
measurable line frequency	40 500 Hz
measurable voltage at AC	10 600 V
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	
valativa matavina pracialan	5 %
relative metering precision	3 70
Auxiliary circuit	3 70
	0
Auxiliary circuit	
Auxiliary circuit number of NC contacts delayed switching	0
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching	0 0
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching	0 0 1
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum	0 0 1
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V	0 0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V	0 0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference	0 0 1 5 000 1/h
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC	0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5	0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3	0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation	0 0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation	0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 at 24 V at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation	0 0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 at 24 V at 125 V at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation between input and output	0 0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 at 24 V at 125 V at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation between input and output between the outputs	0 0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Protective separation Yes Yes
Auxiliary circuit number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz ampacity of the output relay at DC-13 at 24 V at 125 V at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation between input and output	0 0 1 5 000 1/h 1 3 A 1 A 0.2 A 0.1 A 5 mA 4 A 2 kV 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge

product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	2x (0.25 1.5 mm²)
 finely stranded with core end processing 	2 x (0.25 1.5 mm²)
finely stranded without core end processing	2x (0.25 1.5 mm²)
for AWG cables solid	2x (24 16)
for AWG cables stranded	2x (24 16)
connectable conductor cross-section	
• solid	0.25 1.5 mm²
 finely stranded with core end processing 	0.25 1.5 mm ²
finely stranded without core end processing	0.25 1.5 mm²
AWG number as coded connectable conductor cross section	
• solid	24 16
• stranded	24 16
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	94 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
— 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
Approvals Certificates	
General Product Approval	

General Product Approval







Confirmation





EMV Test Certificates Marine / Shipping



<u>KC</u>

Special Test Certificate

Type Test Certificates/Test Report





Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3UG4632-2AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4632-2AA30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

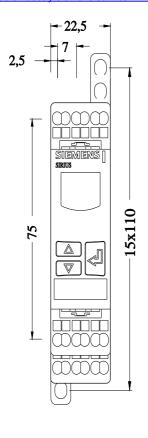
https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-2AA30

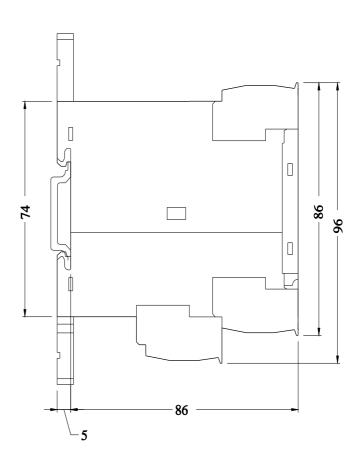
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4632-2AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-2AA30/manual





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