SIEMENS

Data sheet 3UG4651-2AA30



Digital monitoring relay Speed monitoring from 0.1 to 2200 rpm 0vershoot and undershoot Supply voltage: 24 V AC/DC 50 to 60 Hz DC and AC without galvanic isolation to measuring circuit ON delay 1 to 900 s Tripping delay 0.1 to 99.9 s Hysteresis 0.1 to 99 rpm 1 change-over contact with or without fault buffer spring-type connection system

product brand name	SIRIUS
product designation	Speed monitoring relay with digital setting
product type designation	3UG4
General technical data	
product function	RPM monitoring relay
design of the display	LCD
 apparent power consumption at AC 	
— at 24 V maximum	2.5 VA
insulation voltage	
• for overvoltage category III according to IEC 60664	
 — with degree of pollution 3 rated value 	300 V
degree of pollution	3
type of voltage of the control supply voltage	AC/DC
surge voltage resistance rated value	4 kV
protection class IP	IP20
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
reference code according to IEC 81346-2	K
relative repeat accuracy	1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
Product Function	
product function	
 standstill monitoring 	No
 rotation speed monitoring 	Yes
• error memory	Yes
 adjustable open/closed-circuit current principle 	Yes
 external reset 	Yes
auto-RESET	Yes
manual RESET	Yes
suitability for use safety-related circuits	No
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	24 24 V
at 60 Hz rated value	24 24 V
control supply voltage at DC	
rated value	24 24 V

operating range factor control supply voltage rated value at DC	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value at	1.1
AC at 50 Hz	
• initial value	1.1
• full-scale value	0.8
operating range factor control supply voltage rated value at	
AC at 60 Hz	
initial value	1.1
full-scale value	0.8
Measuring circuit	
measurable line frequency	50 60 Hz
adjustable response delay time	
when starting	1 900 s
with lower or upper limit violation	0.1 99.9 s
buffering time in the event of power failure minimum	10 ms
accuracy of digital display	+/- 1 Digit
Precision	
relative metering precision	10 %
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
Inputs/ Outputs	
design of input feedback input	No
number of outputs as contact-affected switching element	
 for signaling function 	
 instantaneous contact 	0
 delayed switching 	1
safety-related	
 delayed switching 	0
— instantaneous contact	0
number of outputs as contact-less semiconductor switching element	
 for signaling function 	
 delayed switching 	0
 instantaneous contact 	0
 safety-related 	
 delayed switching 	0
— instantaneous contact	0
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
● at 125 V	0.2 A
• at 250 V	0.1 A
operational current at 17 V minimum	5 mA
continuous current of the DIAZED fuse link of the output relay	4 A
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
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Declaration of Conformity

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report

Special Test Certificate





Confirmation

Railway

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3UG4651-2AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4651-2AA30

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG4651-2AA30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4651-2AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4651-2AA30/manual

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