SIEMENS

Data sheet

3UG5512-1BR20



monitoring relay phase failure, phase sequence and asymmetry monitoring 3x 160-690 V AC, 15-70 Hz 2 changeover contacts screw terminal

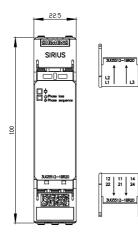
product brand name	SIRIUS			
product designation	Line monitoring relay			
design of the product	monitoring of phase sequence, phase failure and asymmetry			
product type designation	3UG5			
General technical data				
product function	line monitoring			
display version LED	Yes			
design of the display	LED			
power loss [W] maximum	1.8 W			
power loss [V·A] maximum	5.1 VA			
insulation voltage for overvoltage category III according to IEC 60664				
 with degree of pollution 2 rated value 	690 V			
 with degree of pollution 3 rated value 	690 V			
degree of pollution	3			
type of voltage				
 for monitoring 	AC			
 of the operating voltage for actuation 	AC/DC			
 of the control supply voltage 	AC			
surge voltage resistance rated value	6 kV			
protection class IP	IP20			
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms			
switching behavior	monostable			
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			
Substance Prohibitance (Date)	06/01/2023			
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8			
Product Function				
product function				
 undervoltage detection 	No			
 overvoltage detection 	No			
 phase sequence recognition 	Yes			
 phase failure detection 	Yes; available but limited, detection is problematic with high levels of regenerative power recovery			
 asymmetry detection 	Yes; not adjustable, indirectly by monitoring the voltage limit values			
 overvoltage detection 3 phase 	No			
 undervoltage detection 3 phases 	No			

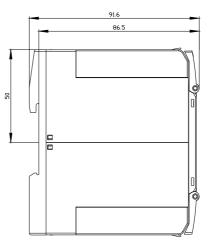
- voltage window recognition 2 phase	No			
voltage window recognition 3 phase	No			
 adjustable open/closed-circuit current principle auto-RESET 	No			
	Yes			
suitability for use safety-related circuits	No			
Control circuit/ Control				
control supply voltage at AC				
• at 50 Hz rated value	90 690 V			
at 60 Hz rated value	90 690 V			
operating range factor control supply voltage rated value at AC at 50 Hz				
• initial value	0.85			
full-scale value operating range factor control supply voltage rated value at	1.1			
AC at 60 Hz	0.05			
initial value	0.85			
full-scale value	1.1			
Supply voltage				
supply voltage frequency rated value	70 15 Hz			
Measuring circuit				
measurable voltage at AC	90 690 V			
buffering time in the event of power failure minimum	20 ms			
response time maximum	500 ms			
relative temperature-related measurement deviation	1 %			
Precision				
relative metering precision	5 %			
temperature drift per °C	0.003 %/°C			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the NO contacts of the relay outputs required 	gL/gG: 6 A or MCB type C: 1 A			
 for short circuit protection of the NC contacts of the relay outputs required 	gL/gG: 6 A or MCB type C: 1 A			
Communication/ Protocol				
protocol is supported IO-Link protocol	No			
type of voltage supply via input/output link master	No			
Auxiliary circuit				
	AgSnO2			
Auxiliary circuit				
Auxiliary circuit material of switching contacts	AgSnO2			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching	AgSnO2 0			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching	AgSnO2 0			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts	AgSnO2 0 0			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts	AgSnO2 0 0 2			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching	AgSnO2 0 0 2 0			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA)			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA)			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA)			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit number of poles for main current circuit	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact reliability of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 400 V at 50/60 Hz • at 400 V at 50/60 Hz • at 400 V at 50/60 Hz	AgSnO2 0 0 2 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3 3 A 3 A			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 200 V at 50/60 Hz • at 400 V at 50/60 Hz • at 24 V	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3 1 A			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact reliability of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz • at 24 V • at 110 V	AgSnO2 0 0 2 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3 3 A 3 A 3 A 3 A 1 A 0.2 A			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact reliability of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 400 V at 50/60 Hz • at 24 V • at 110 V • at 125 V	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3 3 A 3 A 3 A 3 A 3 A 3 A 3			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact reliability of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz • at 24 V • at 110 V • at 230 V	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3 A 3 A 3 A 1 A 0.2 A 0.1 A			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 24 V • at 110 V • at 230 V • at 250 V	AgSnO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3 A 3 A 1 A 0.2 A 0.2 A 0.1 A			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 24 V • at 110 V • at 230 V • at 250 V • at 2	Ag\$nO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3 A 3 A 3 A 1 A 0.2 A 0.1 A 5 mA			
Auxiliary circuit material of switching contacts number of NC contacts delayed switching number of NO contacts delayed switching number of CO contacts • for auxiliary contacts • delayed switching operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL Main circuit number of poles for main current circuit ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz • at 110 V • at 230 V • at 250 V • at 250 V • at 250 V	Ag\$nO2 0 0 2 0 5 000 1/h one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 3 3 A 3 A 3 A 1 A 0.2 A 0.1 A 5 mA			

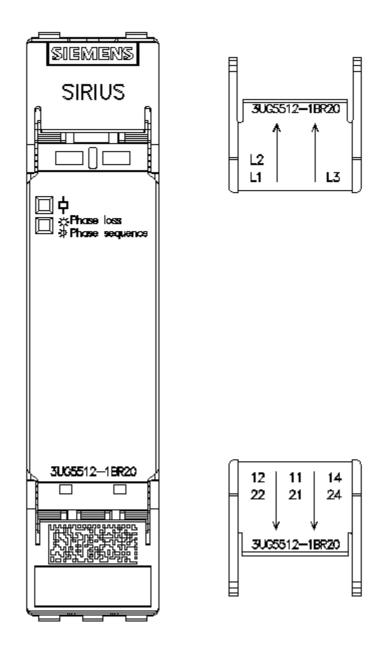
conducted interference			
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 2 kV (signal ports)		
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV		
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV		
field-based interference according to IEC 61000-4-3	10 V/m		
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge		
Galvanic isolation			
design of the electrical isolation	galvanic isolation		
galvanic isolation			
between input and output	Yes		
between the outputs	Yes		
 between the voltage supply and other circuits 	Yes		
Connections/ Terminals			
product component removable terminal for main circuit	Yes		
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection	screw-type terminals		
design of terminals with cross-head screw	PZ 1		
type of connectable conductor cross-sections			
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
 finely stranded with core end processing 	$1x (0.5 4 mm^2), 2x (0.5 2.5 mm^2)$		
 for AWG cables solid 	1x (20 12), 2x (20 14)		
connectable conductor cross-section			
• solid	0.5 4 mm²		
 finely stranded with core end processing 	0.5 4 mm ²		
AWG number as coded connectable conductor cross	0.0 + mm		
section			
• solid	20 12		
• stranded	20 12		
tightening torque with screw-type terminals	0.6 0.8 N·m		
stripped length	10 mm		
	10 mm		
stripped length	10 mm any		
stripped length Installation/ mounting/ dimensions			
stripped length Installation/ mounting/ dimensions mounting position	any		
stripped length Installation/ mounting/ dimensions mounting position fastening method	any screw and snap-on mounting onto 35 mm DIN rail		
stripped length Installation/ mounting/ dimensions mounting position fastening method height	any screw and snap-on mounting onto 35 mm DIN rail 100 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - at the side • for grounded parts	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — backwards — backwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — backwards — upwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - backwards - at the side - forwards - at the side - forwards - at the side	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - at the side • for grounded parts - forwards - backwards - at the side - forwards - at the side - backwards - at the side - backwards - backwards - backwards - backwards - backwards - backwards - at the side - at the side - at the side - downwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — backwards — upwards — obackwards — at the side • for grounded parts — obackwards — upwards — obackwards — obackwards — forwards — backwards — obackwards — obac	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - backwards - upwards - at the side • for grounded parts - forwards - backwards - upwards - forwards - backwards - backwards - at the side - downwards • for live parts - forwards - backwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - backwards - upwards - at the side • for grounded parts - forwards - backwards - upwards - backwards - upwards - backwards - upwards • for live parts - forwards - backwards - upwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - backwards - upwards - downwards - forwards - backwards - upwards - for live parts - forwards - backwards - upwards - backwards - upwards - downwards	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - at the side • for grounded parts - forwards - backwards - at the side • for grounded parts - forwards - at the side - forwards - backwards - upwards - backwards - upwards - at the side - downwards • for live parts - forwards - backwards - upwards - downwards - at the side	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — at the side • for grounded parts — forwards — backwards — upwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards — downwards — at the side Mbient conditions	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - at the side - forwards - at the side - downwards - at the side - forwards - backwards - upwards - at the side - downwards - for live parts - forwards - backwards - upwards - downwards - downwards - at the side Mbient conditions installation altitude at height above sea level maximum	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
stripped length Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — at the side • for grounded parts — forwards — backwards — upwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards — downwards — at the side Mbient conditions	any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 90 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		

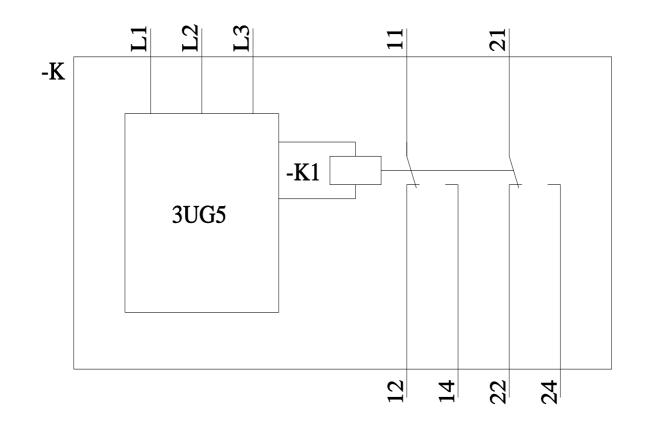
 during storage 	-40 .	-40 +85 °C				
 during transport 	-40 .	-40 +85 °C				
relative humidity during operation	70 %)				
Approvals Certificates						
General Product Approval				Test Certificates		
Confirmation UK	CE EG-Konf.		EHC	Type Test Certific- ates/Test Report		
other						
Further information						
Siemens has decided to exit the Russian mark https://press.siemens.com/global/en/pressrelease/		sian-husiness				
Siemens is working on the renewal of the curre Please contact your local Siemens office on the st EAC relevant market (other than the sanctioned E Information on the packaging	ent EAC certificates. atus of validity of the EA	C certification if you inten	d to import or offer to su	upply these products to an		
https://support.industry.siemens.com/cs/ww/en/vie	<u>ew/109813875</u>					
Information- and Downloadcenter (Catalogs, B https://www.siemens.com/ic10	rochures,)					
Industry Mall (Online ordering system)						
https://mall.industry.siemens.com/mall/en/en/Cata	log/product?mlfb=3UG5	<u>512-1BR20</u>				
Cax online generator http://support.automation.siemens.com/WW/CAXc	order/default.aspx?lang=	en&mlfb=3UG5512-1BR2	<u>20</u>			
Service&Support (Manuals, Certificates, Chara https://support.industry.siemens.com/cs/ww/en/ps	cteristics, FAQs,)		_			

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3UG5512-1BR20/manual









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