SIEMENS

Data sheet

3UG4512-1AR20



Analog monitoring relay Phase failure and sequence 3 x 160...690 V 50...60 Hz AC 1 change-over contact screw terminal

Figuresi	imilar
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product brand name SIRIUS product designation Line monitoring relay design of the product 2 functions product function 90/24 General technical data		
design of the product 2 functions product type designation 30G4 Convert letchical data Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III according to life 6 6064 680 V • with degree of pollution 3 rated value 680 V degree of pollution 3 type of voltage AC • of monitoring AC • of monitoring AC surge voltage resistance rated value 6 kV protoction class IP IP20 shock resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal hif-wave 15g / 11 ms vibration resistance according to IEC	product brand name	SIRIUS
product type designation 3UG4 Central technical data Product function product function Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 600 V degree of pollution 3 type of voltage AC • for monitoring AC • of the control supply voltage AC surge voltage resistance according to IEC 60068-2-27 sinusoidal hift-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) at AC-15 at 230 V 100 000 viproit to resistance according to IEC 61068-2-2 thermal current of the switching element with contacts 5.A substance Prohibitance (Date) 05/07/2012 Product function 1% Substance Prohibitance (Date) 05/07/2012 Product function No • ordervoltage detection No • ordervoltage detection No • ordervoltage detection No • ordervoltage detection No	product designation	Line monitoring relay
General technical data Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 690 V • with degree of pollution 3 rated value 690 V degree of pollution 3 type of voltage AC • of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP IP20 stock 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) typical 10 000 000 electrical endurance (operating cycles) typical 10 000 000 thermal current of the switching element with contacts 5 A maximum 5 A reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function Yes • phase sequence recognition Yes	design of the product	2 functions
product function Phase monitoring relay display version LED Yes Insulation voltage for overvoltage category III according to IEC 60664 690 V degree of pollution 3 type of voltage 6 • of monitoring AC • 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 vibration resistance according to IEC 60068-2-6 1 6 Hz: 15 mm, 6 500 Hz: 2g mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 thermal current of the switching element with contacts 5 A maximum reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 0500/t2012 Product Function No overvoltage detection No overvoltage detection No overvoltage detection 3 phase No overvoltage detection 3 phases </th <th>product type designation</th> <th>3UG4</th>	product type designation	3UG4
display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 690 V • with degree of pollution 3 rated value 690 V degree of pollution 3 type of voltage 6 • of the control supply voltage AC • 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 vibration resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 100 000 electrical endurance (operating cycles) typical 10 000 000 electrical endurance (operating cycles) typical 100 000 thermal current of the switching element with contacts 5 A maximum reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function No • undervoltage detection No • phase failure detection Yes	General technical data	
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degree of pollution 3 type of voltage AC • 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 vibration resistance according to IEC 60068-2-61 1 6 Hz; 15 mm, 6 500 Hz; 2g mechanical service Iife (operating cycles) typical 10 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 5 A merchanical service Iife (operating cycles) at AC-15 at 230 V 100 000 typical 100 000 efference code according to IEC 81346-2 K reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function No • undervoltage detection No • phase sequence recognition Yes • phase failure detection Yes • phase failure detection 3 phase No • undervoltage detection 3 phase No • voltage window recognition 3 phase No		
type of voltage AC • of monitoring AC • 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 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 100 000 typical 100 000 thermal current of the switching element with contacts 5.A maximum 5.4 reference code according to IEC 81346-2 K reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function No overvoltage detection No overvoltage detection No overvoltage detection Yes overvoltage detection Yes overvoltage detection 3 phase No overvoltage detection 3 phases No overvoltage window recogniti	 with degree of pollution 3 rated value 	690 V
• for monitoring AC • 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 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 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection No	degree of pollution	3
• 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 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 100 000 thermal current of the switching element with contacts 5 A maximum reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function • undervoltage detection No • phase failure detection Yes • phase failure detection Yes • overvoltage detection 3 phases No • undervoltage detection 3 phases No • voltage window recognition 3 phases No • voltage window recognition 3 phases No • auto-RESET Yes	type of voltage	
surge voltage resistance rated value 6 kV protection class IP IP20 shock resistance according to IEC 60068-2-77 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 100 000 thermal current of the switching element with contacts 5 A maximum 5 A reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function No • undervoltage detection No • phase failure detection Yes • phase failure detection No • overvoltage detection 3 phase No • voltage window recognition 3 phases No • voltage window recognition 3 phases No • adjustable open/closed-circuit current principle Yes • adjustable open/closed-circuit current principle No • adjustable open/closed-circuit current principle No • adjustable open/closed-circuit current principle	 for monitoring 	AC
Image: Internet i	 of the control supply voltage 	AC
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 100 000 typical 100 000 thermal current of the switching element with contacts 5 A maximum 5 reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function No • undervoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection No • overvoltage detection No • overvoltage detection No • overvoltage detection 3 phase No • overboultige detection 3 phase No • overboultige detection 3 phase No <t< th=""><th>surge voltage resistance rated value</th><th>6 kV</th></t<>	surge voltage resistance rated value	6 kV
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 100 000 typical 100 000 thermal current of the switching element with contacts 5 A maximum 5 A reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function 05/01/2012 product function No • undervoltage detection No • phase sequence recognition Yes • phase failure detection Yes • asymmetry detection 3 phase No • undervoltage detection 3 phase No • overvoltage detection 3 phase No • undervoltage det	protection class IP	IP20
mechanical service life (operating cycles) typical 10 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 100 000 thermal current of the switching element with contacts 5 A maximum 5 A reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function • • undervoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection No • overvoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection 3 phase No • overvoltage detection 3 phase No • undervoltage detection 3 phase No • overvoltage detection 3 phase No • overvoltage detection 3 phase No • overvoltage detection 3 phase No • overtoge window recognition 3 phase No • adjust	shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
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typical thermal current of the switching element with contacts maximum 5 A reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function • • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection No • overvoltage detection No • phase failure detection Yes • undervoltage detection 3 phase No • undervoltage detection 3 phase No • overvoltage detection 3 phase No • undervoltage detection 3 phase No • undervoltage detection 3 phase No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes Control Control	mechanical service life (operating cycles) typical	10 000 000
maximum K reference code according to IEC 81346-2 K relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function 05/01/2012 product function No • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection 3 phase No • undervoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes		100 000
relative repeat accuracy 1 % Substance Prohibitance (Date) 05/01/2012 Product Function 05/01/2012 product function No • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • asymmetry detection No • overvoltage detection 3 phase No • overvoltage detection 3 phases No • undervoltage detection 3 phases No • undervoltage detection 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes Control circuit / Control Yes		5 A
Substance Prohibitance (Date) 05/01/2012 Product Function undervoltage detection No overvoltage detection No ophase sequence recognition Yes ophase failure detection No overvoltage detection No ophase failure detection Yes overvoltage detection 3 phase No overvoltage detection 3 phase No overvoltage detection 3 phases No overvoltage detection 3 phases No overvoltage detection 3 phases No oundervoltage detection 3 phases No oundervoltage detection 3 phases No oundervoltage detection 3 phase No oundervoltage detection 3 phase No outo-RESET ves Control Circuit/ Control	reference code according to IEC 81346-2	К
Product Function undervoltage detection No overvoltage detection No overvoltage detection Ves ophase sequence recognition Yes ophase failure detection Yes overvoltage detection 3 phase No overvoltage detection 3 phases No overvoltage detection 3 phases No overvoltage detection 3 phases No overvoltage detection 3 phase No overvoltage detection 3 phases No overvoltage detection 3 phase No overvoltage window recognition 3 phase No outor-RESET Yes	relative repeat accuracy	1 %
product function No • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection Yes • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • undervoltage detection 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	Substance Prohibitance (Date)	05/01/2012
• undervoltage detection No • overvoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection Yes • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phases No • auto-RESET Yes	Product Function	
• overvoltage detection No • phase sequence recognition Yes • phase failure detection Yes • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	product function	
• phase sequence recognition Yes • phase failure detection Yes • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	 undervoltage detection 	No
phase failure detection Yes asymmetry detection No overvoltage detection 3 phase No undervoltage detection 3 phases No voltage window recognition 3 phase No adjustable open/closed-circuit current principle No auto-RESET Yes Control circuit/ Control	 overvoltage detection 	No
• asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	 phase sequence recognition 	Yes
• overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	phase failure detection	Yes
undervoltage detection 3 phases voltage window recognition 3 phase voltage window recognition 4 phase voltage window r	 asymmetry detection 	No
voltage window recognition 3 phase No adjustable open/closed-circuit current principle No auto-RESET Yes Control circuit/ Control	 overvoltage detection 3 phase 	No
adjustable open/closed-circuit current principle No auto-RESET Yes Control circuit/ Control	 undervoltage detection 3 phases 	No
auto-RESET Yes Control circuit/ Control	 voltage window recognition 3 phase 	No
Control circuit/ Control	 adjustable open/closed-circuit current principle 	No
	auto-RESET	Yes
control supply voltage at AC	Control circuit/ Control	
	control supply voltage at AC	

	400 0001
• at 50 Hz rated value	160 690 V
at 60 Hz rated value	160 690 V
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	1
• full-scale value	1
operating range factor control supply voltage rated value at	
AC at 60 Hz	
• initial value	1
• full-scale value	1
Measuring circuit	
measurable voltage at AC	160 690 V
Auxiliary circuit	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts	
 for auxiliary contacts 	1
delayed switching	1
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
number of poles for main current circuit	3
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	3 A
• at 400 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	4 A
relay	
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-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 	
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 	2 kV 1 kV
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	2 kV 1 kV 10 V/m
due to conductor-earth surge according to IEC 61000-4-5 odue 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	2 kV 1 kV
due to conductor-earth surge according to IEC 61000-4-5 o 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	2 kV 1 kV 10 V/m
• 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 galvanic isolation	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
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 ebetween input and output	2 kV 1 kV 10 V/m
• 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 • between the outputs	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
• 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 ebetween input and output ebetween the outputs ebetween the voltage supply and other circuits	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
due to conductor-earth surge according to IEC 61000-4-5 oue 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 obetween input and output obetween the outputs obetween the voltage supply and other circuits Connections/ Terminals	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes
• 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 ebetween input and output ebetween the outputs ebetween the voltage supply and other circuits	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
due to conductor-earth surge according to IEC 61000-4-5 oue 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 obetween input and output obetween the outputs obetween the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes
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 ebetween input and output ebetween the outputs ebetween the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes
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 ebetween input and output ebetween the outputs ebetween the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes
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 galvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals
 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 between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid 	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Yes 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 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 between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing 	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Ix (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)
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 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 between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid for AWG cables stranded connectable conductor cross-section solid 	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Yes Screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ²
 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 between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables stranded connectable conductor cross-section solid for AWG cables stranded AWG number as coded connectable conductor cross 	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Yes Screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ²
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection solid finely stranded with core end processing for AWG cables stranded connectable conductor cross-section solid for AWG cables stranded AWG number as coded connectable conductor cross section 	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ²
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid for AWG cables solid for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing solid stranded tightening torque with screw-type terminals 	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (20 14) 0.5 4 mm ² 0.5 2 mm ²
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid for AWG cables solid for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing for AWG cables stranded connectable conductor cross-section solid stranded 	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ²

mounting position			any			
fastening method		snap	-on mounting			
height		83 mm				
width		22.5 mm				
depth		91 mm				
required spacing						
 with side-by-side 	mounting					
— forwards			0 mn	า		
- backwards			0 mn	ı		
— upwards			0 mn	ı		
— downwards			0 mn	ı		
— at the side			0 mn	ı		
 for grounded par 	ts					
— forwards			0 mn			
— backwards		0 mn				
— upwards		0 mn				
— at the side			0 mn			
— downwards			0 mn	า		
 for live parts 						
— forwards			0 mn			
— backwards			0 mn			
— upwards			0 mn			
— downwards			0 mn			
— at the side			0 mn	1		
nbient conditions			0.000	2	_	
	eight above sea level maxi	mum	2 000	Jm		
imbient temperature			25	+60 °C		
during operation				+85 °C		
during storageduring transport				+85 °C		
rtificates/ approvals			-40			
General Product App	roval				EMC	Declaration of Co formity
<u>Confirmation</u>		(h)		EAC	Ø	UK
Declaration of Con- formity	ccc Test Certificates	UL		Marine / Shipping	RCM	other
	Special Test Certific- ate	<u>Type Test Cer</u> ates/Test Rep	<u>tific-</u> port	Lloyds		Confirmation
CE EG-Konf.				LIKS	DAVELOUND	
				UKS	Constant	
Railway				URS	Construction	
Kailway Vibration and Shock				LRS	ENV-GL ENVILLEMMO	

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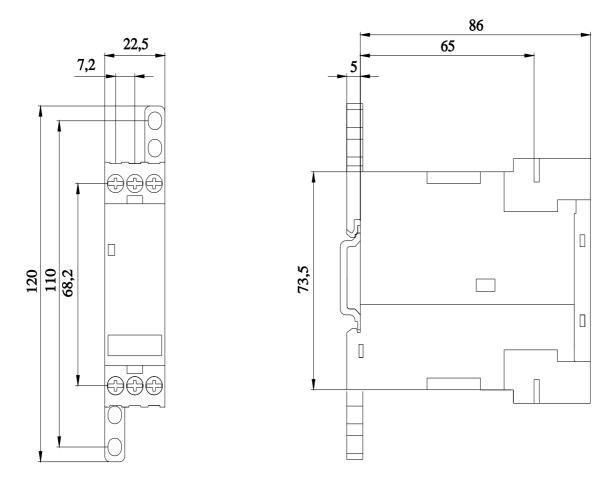
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