## SIEMENS

## Data sheet

## 3UG4641-1CS20



Digital monitoring relay cos phi and current monitoring from 90-690 V AC 0vershoot and undershoot self-supplied 50 to 60 Hz AC Noise pulses delay 0.1 to 20 s Hysteresis for (I) 0.1 to 2 A 2 change-over contacts with or without fault buffer screw terminal Successor product for 3UG3014

product brand name         SIRUS           product designation         Cos phi monitoring relay with digital setting           product type designation         3UG4           design of the display         LCD           its design of the display         LCD           product Type of the display         LCD           its design of LCD         Book resistance according to LCD 60068-2-87           its design attits design of LCD 60068-2-47		
product type designation         3UG4           Central technical data         Active power monitoring relay           product function         Active power monitoring relay           LCD         Insulation voltage for overvoltage category III according to IEC 60664           ie with degree of pollution 3 rated value         690 V           degree of pollution         3           surge voltage resistance rated value         6 kV           product function         6 kV           protection class IP         IP20           shock resistance according to IEC 60065-2-27         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 IIF (operating cycles) typical         10 000 000           electrical andurance (operating cycles) at AC-15 at 230 V         100 000           typical         10 00 000           thermal current of the switching element with contacts         5 A           substance Prohibitance (Date)         05/01/2012           Substance Prohibitance (Date)         05/01/2012           Lead -7439-92-1         Lead -7439-92-1           Lead -7439-92-1         Lead -7439-92-1           Lead monoxide (lead oxide) - 1317-36-8         Yees           Control supply voltage at AC         <	product brand name	SIRIUS
Connect intervention     Active power monitoring relay       design of the display     LCD       insulation voltage for overvoltage category III according to IEC 60664     680 V       ewith degree of pollution     3       surge voltage resistance rated value     680 V       degree of pollution     3       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 Iif (potretting cycles) pylical     100 000       electrical endurance (operating cycles) pylical     100 000       thermal current of the switching element with contacts     5 A       reference code according to IEC 81346-2     K       relative repeat accuracy     1 %       Subtance Prohibitance (Date)     0501/2012       SVHC substance name     Lead - 7439-92-1       Lead monoxide (lead oxide) - 1317-36-8     Product Function       product Function     Yes       • overcurrent detection 1 phase     Yes       • algolable openviolosed-circuit current principle     Yes       • algolable openviolosed-circuit current principle     Yes       • algolable openviolosed-circuit current principle     Yes       • algolable o	product designation	Cos phi monitoring relay with digital setting
product function         Active power monitoring relay           design of the display         LCD           insulation voltage for overvoltage category III according to IEC 60664         600 V           • with degree of pollution 3 rated value         690 V           degree of pollution         3           surge voltage resistance rated value         6 kV           protection class IP         IP20           shock resistance according to IEC 60065-2-27         sinusoidal half-wave 15g / 11 ms           vibration resistance according to IEC 60065-2-6         1 6 Hz: 15 mm, 6 500 Hz: 2g           mechanical service life (operating cycles) typical         100 000           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 %           Subtance Prohibitance (Date)         050/0/2012           Subtance name         Lead -7439.492.1           ueder function         Yes           • outgestable openviceded-circuit current principle         Yes           • outgestable openviceded-circuit current principle         Yes	product type designation	3UG4
design of the display       LCD         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         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 60068-2-4       1 6 Hz: 15 mm, 6 500 Hz: 2g         mechanical service life (operating cycles) typical       10 000 000         electrical endurance (operating cycles) typical       100 000         thermal current of the switching element with contacts       5.A         maximum       5.A         relative repeat accuracy       1 %         Substance Prohibitance (Date)       05/01/2012         Swite substance name       Lead -7439-92-1         Lead monoxide (lead oxide) - 1317-36-8         Product Function       Yes         • overcurrent detection 1 phase       Yes         • undercurrent detection 1 phase       Yes         • adjustable open/closed-dircuit current principle       Yes         • adjustable open/closed-dircuit principle       Yes         • ad 60 Hz rated value       90 690 V	General technical data	
Insulation voltage for overvoltage category III according to IEC 60664       680 V         • with degree of pollution       3         surge voltage resistance rated value       680 V         geree of pollution       3         surge voltage resistance rated value       6 KV         protection class IP       IP20         sinusoidal half-wave 15g / 11 ms       sinusoidal half-wave 15g / 11 ms         vibration resistance according to IEC 60068-2-4       1 6 Hz: 15 mm, 6 500 Hz: 2g         mechanical service IIF (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       reference code according to IEC 81346-2       K         reference code according to IEC 81346-2       K         reference code according to IEC 81346-2       K         substance Prohibitance (Date)       05/01/2012         SUbstance Prohibitance (Date)       05/01/2012         SUHC substance name       Lead -7439-82-1         Lead monoxide (lead oxide) - 1317-36-8       Product Function         • overcurrent detection 1 phase       Yes         • undercurrent detection 1 phase       Yes         •	product function	Active power monitoring relay
IEC 60664       690 V         • with degree of pollution 3 rated value       690 V         degree of pollution       3         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 60068-2-4       1 6 Hz: 15 mm, 6 500 Hz: 2g         mechanical service life (operating cycles) typical       10 000 000         electrical endurance (operating cycles) typical       100 000         thermal current of the switching element with contacts       5 A         maximum       cording to IEC 81346-2       K         relative repeat accuracy       1 %         Substance Prohibitance (Date)       05/01/2012         SVHC substance name       Lead - 7439-82-1         Lead - 7439-82-1       Lead monoxide (lead oxide) - 1317-38-8         Product Function       Yes         • overcurrent detection 1 phase       Yes         • oudercurrent detection 1 phase       Yes         • control circuit Control       Yes         • control circuit Control       Yes         • control circuit Control       90 690 V         • at 50 Hz rated value       90 690 V         • at 6	design of the display	LCD
degree of pollution     3       surge voltage resistance rated value     6 kV       protection class IP     IP20       shock resistance according to IEC 60068-2-7     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     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       SVHC substance name     Lead - 7439-92-1       Lead or value     1       e overcurrent detection 1 phase     Yes       • undercurrent detection 1 phase     Yes       • adjustable open/closed-circuit current principle     Yes       • external reset     Yes       Control circuit/ Control     90 690 V       • at 50 Hz rated value     90 690 V       • at 50 Hz rated value     90 690 V       • at 60 Hz rated value     90 690 V       • at 50 Hz rated value     90 690 V       • at 60 Hz rated value     90 690 V       • at 60 Hz rated value     90 690 V       <		
surge voltage resistance rated value       6 kV         protection class IP       IP20         shock 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         SVHC substance name       Lead -7439-82-1         Lead monoxide (lead oxide) - 1317-36-8         Product Function       Yes         overcurrent detection 1 phase       Yes         • adjustable open/closed-dricit current principle       Yes         • external reset       Yes         Control circuit/ Control       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value <th><ul> <li>with degree of pollution 3 rated value</li> </ul></th> <th>690 V</th>	<ul> <li>with degree of pollution 3 rated value</li> </ul>	690 V
Imported to 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     5 A       reference code according to IEC 81346-2     K       relative repeat accuracy     1 %       Substance Prohibitance (Date)     05/01/2012       SVHC substance name     Lead - 7438-92-1       Lead monoxide (lead oxide) - 1317-36-8       Product Function     •       • overcurrent detection 1 phase     Yes       • adjustable open/closed-circuit current principle     Yes       • external reset     Yes       Control circuit/ Control     Yes       type of voltage at AC     90 690 V       • at 50 Hz rated value     90 690 V       • at 50 Hz rated value     90 690 V       • at 50 Hz rated value     90 690 V       • at 60 Hz rated value     90 690 V       • at 60 Hz rated value     90 690 V       • at 60 Hz rated value     90 690 V       • at 60 Hz rated value     90 690 V       <	degree of pollution	3
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) at AC-15 at 230 V 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         SVHC substance name       Lead -7439-92-1         Lead monoxide (lead oxide) - 1317-36-8         Product Function       ves         • overcurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control circuit/ Control       Yes         • adjustable open/closed-circuit current principle       Yes         • adjustable open/closed-circuit current principle       Yes         • adjustable open/closed at AC       90 690 V         • at 50 Hz rated value       90 690 V         • at 50 Hz rated value       90 690 V         • at 50 Hz rated value       90 690 V         • suppl	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         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         SVHC substance name       Lead -7439-92-1         Lead -7439-92-1       Lead oxide) - 1317-36-8         Product Function       Yes         • overcurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control circuit/ Control       Yes         • at 50 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       50 600 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       60 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       1         • tuil-scale value       1       1	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         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         SVHC substance name       Lead - 7439-92-1         Lead monoxide (lead oxide) - 1317-36-8         Product Function       • overcurrent detection 1 phase         • overcurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control circuit/ Control       type of voltage of the control supply voltage         AC       control supply voltage at AC         • at 50 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       50 600 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       50 60 Hz         • initial value       1         • initial value       1	shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
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         SVHC substance name       Lead - 7439-92-1         Lead - 7439-92-1       Lead - 7439-92-1         Lead - repeated excuracy       100 000         product function       Yes         • overcurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control circuit/ Control       yes         type of voltage of the control supply voltage       AC         control supply voltage at AC       90 690 V         • at 50 Hz rated value       90 690 V         • at 60 Hz rated value       90 600 V         supply voltage frequency for auxiliary and control circuit rated value       50 60 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       AC         operating range factor control supply voltage rated value at AC at 50 Hz       1         • initia	vibration resistance according to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g
typical       5 A         maximum       5 A         reference code according to IEC 81346-2       K         relative repeat accuracy       1 %         Substance Prohibitance (Date)       05/01/2012         SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Product Function       • overcurrent detection 1 phase         • overcurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control circuit/ Control       Yes         type of voltage of the control supply voltage       AC         control supply voltage at AC       90 690 V         • at 50 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • initial value       1         • initial value       1         • initial value       1	mechanical service life (operating cycles) typical	10 000 000
maximumreference code according to IEC 81346-2Krelative repeat accuracy1 %Substance Prohibitance (Date)05/01/2012SVHC substance nameLead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8Product Function		100 000
relative repeat accuracy       1 %         Substance Prohibitance (Date)       05/01/2012         SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Product Function       • overcurrent detection 1 phase         • overcurrent detection 1 phase       Yes         • undercurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control circuit/ Control       Yes         type of voltage of the control supply voltage       AC         control supply voltage at AC       90 690 V         • at 50 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       50 60 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       50 60 Hz         • initial value       1         • initial value       1	•	5 A
Substance Prohibitance (Date)       05/01/2012         SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Product Function       • overcurrent detection 1 phase         • overcurrent detection 1 phase       Yes         • undercurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control Circuit/ Control       Yes         type of voltage of the control supply voltage       AC         control supply voltage at AC       90 690 V         • at 50 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         • at 60 Hz rated value       90 600 V         • at 60 Hz rated value       90 600 V         • at 60 Hz rated value       90 600 V         • at 60 Hz rated value       90 600 V         • at 60 Hz       50 60 Hz	reference code according to IEC 81346-2	К
SVHC substance name       Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8         Product Function       • overcurrent detection 1 phase         • overcurrent detection 1 phase       Yes         • undercurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control circuit/ Control       Yes         type of voltage of the control supply voltage       AC         control supply voltage at AC       • at 50 Hz rated value         • at 60 Hz rated value       90 690 V         supply voltage frequency for auxiliary and control circuit rated value       50 60 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       1         • initial value       1	relative repeat accuracy	1 %
Lead monoxide (lead oxide) - 1317-36-8       Product Function          • overcurrent detection 1 phase        • undercurrent detection 1 phase       • undercurrent detection 1 phase       • adjustable open/closed-circuit current principle       • external reset       Yes       • external reset       Yes       • external reset       Yes       • operating range factor control supply voltage rated value at AC at 50 Hz       • initial value       • full-scale value	Substance Prohibitance (Date)	05/01/2012
product function       Yes         • overcurrent detection 1 phase       Yes         • undercurrent detection 1 phase       Yes         • adjustable open/closed-circuit current principle       Yes         • external reset       Yes         Control circuit/ Control       Yes         type of voltage of the control supply voltage       AC         control supply voltage at AC       90 690 V         • at 50 Hz rated value       90 690 V         supply voltage frequency for auxiliary and control circuit       50 600 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       1         • initial value       1         • full-scale value       1	SVHC substance name	
• overcurrent detection 1 phaseYes• undercurrent detection 1 phaseYes• adjustable open/closed-circuit current principleYes• external resetYesControl circuit/ ControlYesControl supply voltage of the control supply voltageACcontrol supply voltage at AC90 690 V• at 50 Hz rated value90 690 V• at 60 Hz rated value90 690 Vsupply voltage frequency for auxiliary and control circuit rated value50 60 Hzoperating range factor control supply voltage rated value at AC at 50 Hz1• initial value1• full-scale value1	Product Function	
e undercurrent detection 1 phase Yes     e adjustable open/closed-circuit current principle Yes     e external reset Yes      Control circuit/ Control      type of voltage of the control supply voltage AC     control supply voltage at AC     e at 50 Hz rated value 90 690 V     e at 60 Hz rated value 90 690 V     supply voltage frequency for auxiliary and control circuit 50 60 Hz      operating range factor control supply voltage rated value at AC at 50 Hz     initial value 1     initial value 1     full-scale value 1	product function	
	<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
• external reset       Yes         Control circuit/ Control       AC         type of voltage of the control supply voltage       AC         control supply voltage at AC       90 690 V         • at 50 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         supply voltage frequency for auxiliary and control circuit rated value       50 600 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       1         • initial value       1         • full-scale value       1	<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
Control circuit/ Control         type of voltage of the control supply voltage       AC         control supply voltage at AC       90 690 V         • at 50 Hz rated value       90 690 V         • at 60 Hz rated value       90 690 V         supply voltage frequency for auxiliary and control circuit rated value       50 60 Hz         operating range factor control supply voltage rated value at AC at 50 Hz       1         • initial value       1         • full-scale value       1	<ul> <li>adjustable open/closed-circuit current principle</li> </ul>	Yes
type of voltage of the control supply voltageACcontrol supply voltage at AC90 690 V• at 50 Hz rated value90 690 V• at 60 Hz rated value90 690 Vsupply voltage frequency for auxiliary and control circuit rated value50 60 Hzoperating range factor control supply voltage rated value at AC at 50 Hz1• initial value1• full-scale value1	external reset	Yes
Control supply voltage at AC90 690 V• at 50 Hz rated value90 690 V• at 60 Hz rated value90 690 Vsupply voltage frequency for auxiliary and control circuit rated value50 60 Hzoperating range factor control supply voltage rated value at AC at 50 Hz1• initial value1• full-scale value1	Control circuit/ Control	
• at 50 Hz rated value90 690 V• at 60 Hz rated value90 690 Vsupply voltage frequency for auxiliary and control circuit rated value50 60 Hzoperating range factor control supply voltage rated value at AC at 50 Hz1• initial value1• full-scale value1	type of voltage of the control supply voltage	AC
• at 60 Hz rated value90 690 Vsupply voltage frequency for auxiliary and control circuit rated value50 60 Hzoperating range factor control supply voltage rated value at AC at 50 Hz1• initial value1• full-scale value1	control supply voltage at AC	
supply voltage frequency for auxiliary and control circuit rated value       50 60 Hz         operating range factor control supply voltage rated value at AC at 50 Hz	<ul> <li>at 50 Hz rated value</li> </ul>	90 690 V
rated value     Image: rated value       operating range factor control supply voltage rated value at AC at 50 Hz     Image: rated value       • initial value     1       • full-scale value     1	<ul> <li>at 60 Hz rated value</li> </ul>	90 690 V
AC at 50 Hz     1       • initial value     1       • full-scale value     1		50 60 Hz
full-scale value		
	• initial value	1
operating range factor control supply voltage rated value at	• full-scale value	1
	operating range factor control supply voltage rated value at	

AC at 60 Hz	
<ul> <li>initial value</li> </ul>	1
• full-scale value	1
Supply voltage	
supply voltage frequency rated value	60 50 Hz
Measuring circuit	
type of current for monitoring	AC
measurable current	0.2 10 A
adjustable current response value current	
•1	0.2 10 A
• 2	0.2 10 A
adjustable response delay time	
when starting	0 99 s
with lower or upper limit violation	0.1 20 s
adjustable switching hysteresis for measured current value	100 2 000 mA
buffering time in the event of power failure minimum	10 ms
accuracy of digital display	+/-1 digit
Precision	·/·· i uigit
	10 %
relative metering precision	10 /0
Auxiliary circuit	
control supply voltage rated value	690 90
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	2
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
number of poles for main current circuit	2
operating voltage rated value	90 690 V
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	214/
• 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	
galvanic isolation	
<ul> <li>between input and output</li> </ul>	Yes
between the outputs	Yes
<ul> <li>between the voltage supply and other circuits</li> </ul>	Yes
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
	scrow terminal
type of electrical connection	screw terminal
type of connectable conductor cross-sections	$4x(0.5 - 4mm^2) 2x(0.5 - 2.5mm^2)$
• solid	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)
• for AWG cables solid	2x (20 14)
for AWG cables stranded	2x (20 14)
connectable conductor cross-section	

<ul> <li>solid</li> </ul>			0.5	4 mm <sup>2</sup>		
	<ul> <li>finely stranded with core end processing</li> </ul>			2.5 mm <sup>2</sup>		
AWG number as cod	led connectable conducto	or cross	0.0	2.0 1111		
section						
• solid			20 '			
<ul> <li>stranded</li> </ul>			20			
tightening torque with			1.2	0.8 N·m		
Installation/ mounting/	/ dimensions		_			
mounting position			any			
fastening method			snap-o	on mounting		
height			102 m	Im		
width			22.5 n	nm		
depth			91 mn	n		
required spacing						
<ul> <li>with side-by-sid</li> </ul>	le mounting					
— forwards			0 mm			
- backwards	S		0 mm			
— upwards			0 mm			
- downward	ls		0 mm			
- at the side	9		0 mm			
<ul> <li>for grounded particular</li> </ul>	arts					
— forwards			0 mm			
- backwards	S		0 mm			
— upwards			0 mm			
— at the side	2		0 mm			
- downward			0 mm			
<ul> <li>for live parts</li> </ul>			•			
— forwards			0 mm			
— backwards	9		0 mm			
— upwards	5		0 mm			
— downward	le.		0 mm			
- at the side			0 mm			
Ambient conditions	;		UIIIII			_
		·	0.000			
	height above sea level max	amum	2 000	m		
ambient temperature			05	100 %0		
during operation	n			+60 °C		
during storage				-40 +85 °C		
<ul> <li>during transport</li> </ul>			-40	+85 °C		
Approvals Certificates						
General Product Ap	proval					
		Confirmation	<u>on</u>	(me		r m r
UK	~ ~ ~			1111	711. \	
	CE			(m)	(ŸL)	FHI
UK CA	CE EG-Konf.				(ĥľ)	EAC
CA						LHL
CA					(UL)	tHL
		Test Certificat	es	ccc	Marine / Shipping	tHL
	EG-Konf.				Marine / Shipping	tHL
		Special Test Ce		Type Test Certific-	Marine / Shipping	LHL
	EG-Konf.				Marine / Shipping	Llovds
	EG-Konf.	Special Test Ce		Type Test Certific-	Marine / Shipping	
	EG-Konf.	Special Test Ce		Type Test Certific-	Ĵ.Å.	Lloyds Register
	EG-Konf.	Special Test Ce		Type Test Certific-	Ĵ.Å.	Lloyds Register
	EG-Konf. KC	Special Test Ce		Type Test Certific-	Ĵ.Å.	Lloyds Register
	EG-Konf.	<u>Special Test Ce</u> ate		Type Test Certific-	Ĵ.Å.	Lloyds Register
	EG-Konf. KC Railway Special Test Certific-	Special Test Ce ate Environment	ertific- Con-	Type Test Certific-	Ĵ.Å.	Lloyds Register
EMV ECM	EG-Konf. KC Railway	Special Test Ce ate	ertific- Con-	Type Test Certific-	Ĵ.Å.	Lloyds Register

## 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=3UG4641-1CS20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4641-1CS20

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG4641-1CS20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4641-1CS20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4641-1CS20/manual

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