## SIEMENS

## Data sheet

## 3UF7011-1AB00-0



Basic unit SIMOCODE pro V PN, Ethernet/PROFINET IO, PN system redundancy, OPC UA server, Web server, transmission rate 100 Mbps, 2 x bus connection via RJ45, 4I/3O freely parameterizable, Us: 24 V DC, input for thermistor connection Monostable relay outputs, expandable by extension modules

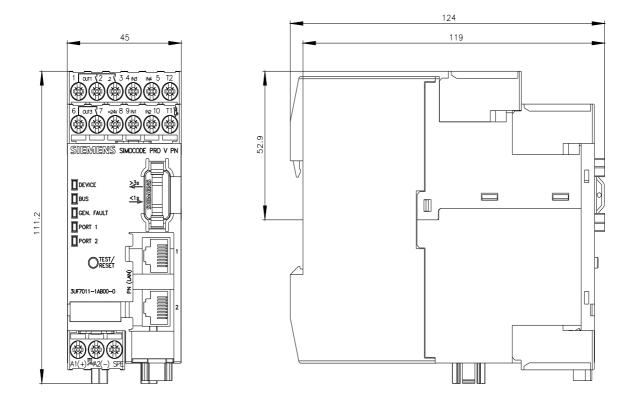
product brand name	SIRIUS			
product designation	Motor management system			
design of the product	basic unit 3			
product type designation	SIMOCODE pro V PN			
General technical data				
product function				
<ul> <li>bus communication</li> </ul>	Yes			
<ul> <li>data acquisition function</li> </ul>	Yes			
<ul> <li>diagnostics function</li> </ul>	Yes			
<ul> <li>password protection</li> </ul>	Yes			
test function	Yes			
maintenance function	Yes			
product component				
<ul> <li>input for thermistor connection</li> </ul>	Yes			
<ul> <li>digital input</li> </ul>	Yes			
<ul> <li>input for analog temperature sensors</li> </ul>	No			
<ul> <li>input for ground fault detection</li> </ul>	No			
relay output	Yes			
product extension				
<ul> <li>temperature monitoring module</li> </ul>	Yes			
<ul> <li>current measuring module</li> </ul>	Yes			
<ul> <li>current/voltage measuring module</li> </ul>	Yes			
<ul> <li>fail-safe digital I/O module</li> </ul>	Yes			
<ul> <li>ground-fault monitoring module</li> </ul>	Yes			
<ul> <li>control unit with display</li> </ul>	Yes			
control unit	Yes			
<ul> <li>analog I/O module</li> </ul>	Yes			
consumed active power	3.9 W			
insulation voltage with degree of pollution 3 at AC rated value	300 V			
surge voltage resistance rated value	4 000 V			
protection class IP	IP20			
shock resistance				
<ul> <li>according to IEC 60068-2-27</li> </ul>	15g / 11 ms			
vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g			
switching capacity current of the NO contacts of the relay outputs at AC-15				
• at 24 V	6 A			
• at 120 V	6 A			
• at 230 V	3 A			

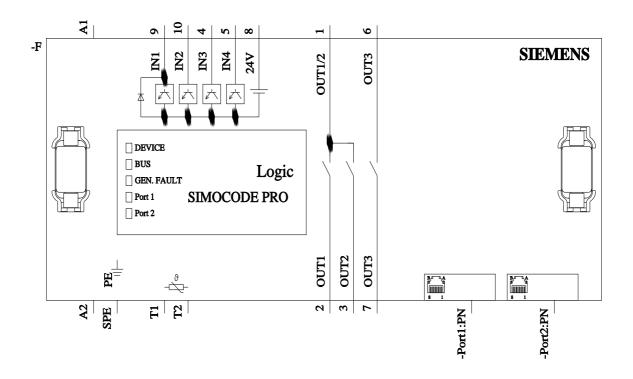
switching capacity current of the NO contacts of the relay outputs at DC-13	
• at 24 V	2 A
• at 60 V	0.55 A
• at 125 V	0.25 A
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) typical	100 000
buffering time in the event of power failure	0 s _
reference code according to IEC 81346-2	F
continuous current of the NO contacts of the relay outputs	
• at 50 °C	6 A
• at 60 °C	5 A
type of input characteristic	Type 1 in accordance with EN 61131-2
Substance Prohibitance (Date)	03/01/2017
certificate of suitability	
• IECEx	Yes; IECEx PTB 18.0004X
according to ATEX directive 2014/34/EU	BVS 06 ATEX F001, PTB 18 ATEX 5003 X
<ul> <li>acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107)</li> </ul>	ITS21UKEX0464, ITS21UKEX0455X
according to UKCA	ITS21UKEX0464, ITS21UKEX0455X
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2 ) D, I (M2) / I (1G/M2), II (1/2) G, II (1G/2D)
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV (power ports) / 1 kV (signal ports)
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge according to IEC</li> </ul>	1 kV
61000-4-5	
• due to high-frequency radiation according to IEC 61000- 4-6	10 V
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
conducted HF interference emissions according to CISPR11	corresponds to degree of severity A
field-bound HF interference emission according to CISPR11	corresponds to degree of severity A
Inputs/ Outputs	
product function	
<ul> <li>parameterizable inputs</li> </ul>	Yes
parameterizable outputs	Yes
number of inputs	4
<ul> <li>for thermistor connection</li> </ul>	1
number of digital inputs with a common reference potential	4
digital input version	
• type 1 acc. to IEC 61131	Yes
input voltage at digital input at DC rated value	24 V
number of outputs	3
number of semiconductor outputs	0
number of outputs as contact-affected switching element	3
switching behavior	monostable
type of relay outputs	Monostable
wire length for digital signals maximum	300 m
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m
Protective and monitoring functions	
product function	
asymmetry detection	Yes
<ul> <li>blocking current evaluation</li> </ul>	Yes
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<ul> <li>ground fault detection</li> </ul>	Yes
<ul> <li>phase failure detection</li> </ul>	Yes
<ul> <li>phase sequence recognition</li> </ul>	Yes
<ul> <li>voltage detection</li> </ul>	Yes
<ul> <li>monitoring of number of start operations</li> </ul>	Yes
<ul> <li>overvoltage detection</li> </ul>	Yes
<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undervoltage detection</li> </ul>	Yes
<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
<ul> <li>active power monitoring</li> </ul>	Yes
product function	
current detection	Yes
<ul> <li>overload protection</li> </ul>	Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes
total cold resistance number of sensors in series maximum	1.5 kΩ
response value of thermoresistor	3 400 3 800 Ω
of the short-circuit control	9 Ω
release value of thermoresistor	1 500 1 650 Ω
Motor control functions	
product function	
parameterizable overload relay	Yes
circuit breaker control	Yes
• direct start	Yes
reverse starting	Yes
star-delta circuit	Yes
<ul> <li>star-delta reversing circuit</li> </ul>	Yes
Dahlander circuit	Yes
<ul> <li>Dahlander reversing circuit</li> </ul>	Yes
<ul> <li>pole-changing switch circuit</li> </ul>	Yes
<ul> <li>pole-changing switch reversing circuit</li> </ul>	Yes
• slide control	Yes
valve control	Yes
Communication/ Protocol	
<ul> <li>protocol is supported PROFIBUS DP protocol</li> </ul>	No
protocol is supported PROFINET IO protocol	Yes
<ul> <li>protocol is supported PROFIsafe protocol</li> </ul>	Yes
<ul> <li>protocol is supported Modbus RTU</li> </ul>	No
	No
protocol is supported EtherNet/IP	No Yes
<ul><li>protocol is supported EtherNet/IP</li><li>protocol is supported OPC UA Server</li></ul>	Yes
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> </ul>	Yes Yes
<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> </ul>	Yes Yes Yes
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<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported NTP</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>according to PROFINET</li> </ul>	Yes Yes Yes Yes Yes Yes No
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<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> <li>number of interfaces</li> <li>according to PROFINET</li> <li>according to Ethernet/IP</li> <li>product function</li> <li>web server</li> <li>shared device</li> </ul>	Yes Yes Yes Yes Yes No 2 0 0
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<ul> <li>protocol is supported EtherNet/IP</li> <li>protocol is supported OPC UA Server</li> <li>protocol is supported LLDP</li> <li>protocol is supported Address Resolution Protocol (ARP)</li> <li>protocol is supported SNMP</li> <li>protocol is supported HTTPS</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>protocol is supported Media Redundancy Protocol (MRP)</li> <li>product function is supported Device Level Ring (DLR)</li> </ul> <b>number of interfaces</b> <ul> <li>according to PROFINET</li> <li>according to PROFIBUS</li> <li>according to Ethernet/IP</li> </ul> <b>product function</b> <ul> <li>web server</li> <li>shared device</li> <li>at the Ethernet interface Autocrossover</li> <li>at the Ethernet interface Autosensing</li> <li>Media Redundancy Protocol for Planned Duplication (MRPD)</li> </ul>	Yes Yes Yes Yes Yes No 2 0 0 7 Yes Yes Yes Yes Yes Yes Yes Yes

<ul> <li>supports PROFlenergy shutdown</li> </ul>	Yes
transfer rate maximum	100 Mbit/s
PROFINET conformity class	B
identification & maintenance function	-
I&M0 - device-specific information	Yes
I&M1 - higher level designation/location designation	Yes
I&M2 - installation date	Yes
I&M3 - comment	Yes
type of electrical connection of the communication interface	2x RJ45
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	111 mm
width	45 mm
depth	124 mm
required spacing	124 (111)
	40 mm
• top • bottom	40 mm
left	40 mm
• right	0 mm
Ignt Connections/ Terminals	
	Vae
product component removable terminal for auxiliary and control circuit	Yes
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>for AWG cables solid</li> </ul>	1x (20 12), 2x (20 14)
<ul> <li>for AWG cables stranded</li> </ul>	1x (20 14), 2x (20 16)
tightening torque with screw-type terminals	0.8 1.2 N·m
tightening torque [lbf-in] with screw-type terminals	7 10.3 lbf-in
Ambient conditions	
Amplent conditions	
installation altitude at height above sea level	
	2 000 m
installation altitude at height above sea level	2 000 m 3 000 m; max. +50 °C (no protective separation)
installation altitude at height above sea level • 1 maximum	
installation altitude at height above sea level • 1 maximum • 2 maximum	3 000 m; max. +50 °C (no protective separation)
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum	3 000 m; max. +50 °C (no protective separation)
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)
installation altitude at height above sea level <ul> <li>1 maximum</li> <li>2 maximum</li> <li>3 maximum</li> </ul> <li>ambient temperature <ul> <li>during operation</li> </ul></li>	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3
installation altitude at height above sea level <ul> <li>1 maximum</li> <li>2 maximum</li> <li>3 maximum</li> </ul> <li>ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>environmental category</li>	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
installation altitude at height above sea level <ul> <li>1 maximum</li> <li>2 maximum</li> <li>3 maximum</li> </ul> <li>ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>environmental category</li>	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2
installation altitude at height above sea level <ul> <li>1 maximum</li> <li>2 maximum</li> <li>3 maximum</li> </ul> <li>ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>environmental category <ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> </ul> </li>	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 relative humidity	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2
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installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during operation contact rating of auxiliary contacts according to UL	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during operation contact rating of auxiliary contacts according to UL	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 %
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 relative humidity • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit- breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
installation altitude at height above sea level <ul> <li>1 maximum</li> <li>2 maximum</li> <li>3 maximum</li> </ul> <li>ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>environmental category <ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> </ul> </li> <li>during transport according to IEC 60721</li> <li>during operation</li> <li>contact rating of auxiliary contacts according to UL</li> Short-circuit protection <ul> <li>design of short-circuit protection per output</li> </ul> Safety related data <ul> <li>touch protection against electrical shock</li> </ul>	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit- breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
installation altitude at height above sea level • 1 maximum • 2 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit- breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be
installation altitude at height above sea level <ul> <li>1 maximum</li> <li>2 maximum</li> <li>3 maximum</li> </ul> <li>ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>environmental category <ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during operation</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> <li>Short-circuit protection <ul> <li>design of short-circuit protection per output</li> </ul> </li> <li>Safety related data <ul> <li>touch protection against electrical shock</li> </ul> </li> <li>Galvanic isolation <ul> <li>(electrically) protective separation according to IEC 60947-1</li> </ul> </li>	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit- breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 relative humidity • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit- breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)
installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit- breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)
installation altitude at height above sea level <ul> <li>1 maximum</li> <li>2 maximum</li> <li>3 maximum</li> </ul> <li>ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>environmental category <ul> <li>during storage according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during operation</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> <li>Short-circuit protection <ul> <li>design of short-circuit protection per output</li> </ul> </li> <li>Safety related data <ul> <li>touch protection against electrical shock</li> <li>Galvanic isolation</li> <li>(electrically) protective separation according to IEC 60947-1</li> </ul> </li>	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C -40 +80 °C 3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 % B300 / R300 Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit- breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) finger-safe All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)

control supply voltage	1 at DC rated value	24 V	/				
	r control supply voltage						
DC	i control supply voltage						
<ul> <li>initial value</li> </ul>		0.85	i				
<ul> <li>full-scale value</li> </ul>		1.2					
inrush current peak							
• at 24 V		17 A	1				
duration of inrush cu	rrent peak						
• at 24 V		1.1 r	ns				
Certificates/ approvals							
General Product App	roval				EMC		
For use in hazardous	ccc	Confirmation	UL	EHC	RCM Declaration of Con- formity		
ATEX A	IECEx	KEx ATEX	IECEx IECEx	Explosion Protection Certificate	UK CA		
Declaration of Con- formity	Test Certificates			Marine / Shipping			
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	Lloyd's Kegister uis		
Marine / Shipping		other					
RMRS RMRS		<u>Confirmation</u>	Profibus				
Further information					_		
Siemens has decided	to exit the Russian mark	ket (see here).	ning hunings-				
Siemens is working o Please contact your loc EAC relevant market (c Information on the pa https://support.industry	other than the sanctioned E	ent EAC certificates. tatus of validity of the EA EAEU member states Ru ew/109813875	AC certification if you intend	d to import or offer to supp	bly these products to an		
https://www.siemens.co Industry Mall (Online	<u>om/ic10</u>		011-1AB00-0				
Cax online generator http://support.automatic Service&Support (Ma https://support.industry	on.siemens.com/WW/CAX nuals, Certificates, Chara .siemens.com/cs/ww/en/ps	order/default.aspx?lang= acteristics, FAQs,) s/3UF7011-1AB00-0	en&mlfb=3UF7011-1AB00				
Image database (prod	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7011-1AB00-0⟨=en						
Test report No. A0258	siemens.com/bilddb/cax_c 3, protective separation .siemens.com/cs/ww/en/vi		TABOU-Valang-CII				





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