SIEMENS

Data sheet

3UF7010-1AU00-0



Basic unit SIMOCODE pro V PB PROFIBUS DP interface 12 Mbit/s, RS 485, 41/30 freely parameterizable, Us: 110...240 V AC/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 2		
product type designation	SIMOCODE pro V PB		
General technical data			
product function			
 bus communication 	Yes		
 data acquisition function 	Yes		
 diagnostics function 	Yes		
 password protection 	Yes		
test function	Yes		
maintenance function	Yes		
product component			
 input for thermistor connection 	Yes		
 digital input 	Yes		
 input for analog temperature sensors 	No		
 input for ground fault detection 	No		
 relay output 	Yes		
product extension			
 temperature monitoring module 	Yes		
 current measuring module 	Yes		
 current/voltage measuring module 	Yes		
 fail-safe digital I/O module 	Yes		
 ground-fault monitoring module 	Yes		
 control unit with display 	Yes		
control unit	Yes		
 analog I/O module 	Yes		
apparent power consumption	8.3 V·A		
consumed active power	3.6 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			
• acc. to IEC 60068-2-27	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 (switching cycles) typical	10 000 000			
electrical endurance (switching cycles) typical	100 000			
buffering time in the event of power failure	0.2 s			
reference code acc. 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)	01.05.2012 00:00:00			
certificate of suitability	01.03.2012 00.00.00			
IECEX				
	Yes; IECEX PTB 18.0004X			
according to ATEX directive 2014/34/EU	BVS 06 ATEX F001, PTB 18 ATEX 5003 X			
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 acc. to IEC 60947-1	class A			
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3			
conducted interference				
 due to burst acc. to IEC 61000-4-4 	2 kV (power ports) / 1 kV (signal ports)			
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV			
due to conductor-conductor surge acc. to IEC 61000-4-5	1 KV			
 due to high-frequency radiation acc. to IEC 61000- 4-6 	10 V			
field-based interference acc. to IEC 61000-4-3	10 V/m			
neid-based interference acc. to IEC 61000-4-5	10 V/III			
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge			
conducted HF interference emissions acc. to CISPR11	corresponds to degree of severity A			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11				
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs	corresponds to degree of severity A			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11	corresponds to degree of severity A			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs	corresponds to degree of severity A			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A corresponds to degree of severity A			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs	corresponds to degree of severity A corresponds to degree of severity A Yes			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs	corresponds to degree of severity A corresponds to degree of severity A Yes Yes			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1			
conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection number of digital inputs with a common reference potential	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4			
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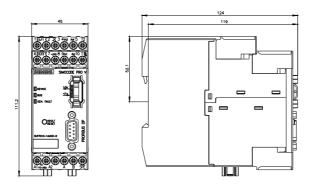
	Vac
phase sequence recognition	Yes
voltage detection	Yes
monitoring of number of start operations	Yes
overvoltage detection	Yes
overcurrent detection 1 phase	Yes
undervoltage detection	Yes
undercurrent detection 1 phase	Yes
active power monitoring	Yes
product function	
current detection	Yes
 overload protection 	Yes
evaluation of thermistor motor protection	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
star-delta reversing circuit	Yes
Dahlander circuit	Yes
Dahlander reversing circuit	Yes
pole-changing switch circuit	Yes
 pole-changing switch reversing circuit 	Yes
slide control	Yes
valve control	Yes
Communication/ Protocol	
protocol is supported PROFIBUS DP protocol	Yes
protocol is supported PROFINET IO protocol	No
protocol is supported PROFIsafe protocol	Yes
protocol is supported Modbus RTU	No
protocol is supported EtherNet/IP	No
 protocol is supported OPC UA Server 	No
protocol is supported LLDP	No
 protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) 	No No
 protocol is supported Address Resolution Protocol 	
 protocol is supported Address Resolution Protocol (ARP) 	No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP 	No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol 	No No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring 	No No No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) 	No No No No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) 	No No No No
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 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS 	No No No No
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 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS 	No No No No 0 1
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function	No No No No 0 1 0
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server 	No No No No O 1 0
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover 	No No No No No No No No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autonegotiation 	No No No No No No No No No No No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing 	No No No No No No No No No No No No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing is supported PROFINET system redundancy 	No No No No No No No No No No No
 protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP protocol is supported Media Redundancy Protocol (MRP) product function is supported Device Level Ring (DLR) number of interfaces acc. to PROFINET acc. to PROFIBUS according to Ethernet/IP product function web server shared device at the Ethernet interface Autocrossover at the Ethernet interface Autosensing 	No No No No No No No No No No No No

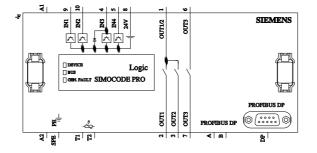
turn of a water manimum	40 Mbit/a				
transfer rate maximum	12 Mbit/s				
identification & maintenance function	N				
I&M0 - device-specific information	Yes				
 I&M1 – higher level designation/location designation 	Yes				
I&M2 - installation date	Yes				
I&M3 - comment	Yes				
type of electrical connection of the communication interface	9-pin SUB-D socket (12 Mbit) / screw terminal (1.5 Mbit)				
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	screw and snap-on mounting				
height	111 mm				
width	45 mm				
depth	124 mm				
required spacing					
	40 mm				
● top ● bottom					
	40 mm				
• left	0 mm				
• right	0 mm				
Connections/ Terminals					
product component removable terminal for auxiliary	Yes				
and control circuit					
type of connectable conductor cross-sections					
• solid	1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)				
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
 at AWG cables solid 	1x (20 12), 2x (20 14)				
at AWG cables stranded	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				
type of connectable conductor cross-sections for PROFIBUS wire	2x 0.34 mm², AWG 22				
Ambient conditions					
Ambient conditions installation altitude at height above sea level	2 000 m				
Ambient conditions installation altitude at height above sea level • 1 maximum	2 000 m				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum	3 000 m; max. +50 °C (no protective separation)				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum					
Ambient conditions 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)				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C				
Ambient conditions 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				
Ambient conditions 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				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category	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				
Ambient conditions 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%),				
Ambient conditions 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 acc. 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				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category	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%),				
Ambient conditions 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 acc. 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),				
Ambient conditions 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 acc. to IEC 60721 during storage acc. 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 (sand must not get into the devices), 1M4				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during storage acc. to IEC 60721 • during transport acc. 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 (sand must not get into the devices), 1M4				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during storage acc. to IEC 60721 • during transport acc. 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 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation • during transport acc. 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 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 %				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category oduring storage acc. to IEC 60721 eduring transport acc. to IEC 60721 eduring transport acc. to IEC 60721 oduring 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				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation • during transport acc. 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 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2 5 95 %				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category oduring storage acc. to IEC 60721 eduring transport acc. to IEC 60721 eduring transport acc. to IEC 60721 oduring 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				
Ambient conditions 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 acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation • during operation • during transport acc. to IEC 60721 • during operation • during transport acc. 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				
Ambient conditions 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 acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. 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	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)				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. 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	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)				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. 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 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,				
Ambient conditions 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 acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. 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 acc. 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,				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation • during operation • during operation acc. 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 acc. 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)				

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control supply volta	ge at AC					
• at 50 Hz rated value			110 240 V			
at 60 Hz rated			. 110	. 240 V		
 control supply volta 1 rated value 	ge frequency		50 Hz	,		
 2 rated value 			60 Hz	-		
	I tolerance of the contr	ol supply	5 %			
control supply voltage at DC • rated value		110	110 240 V			
	tor control supply volta	age rated		. 210 V		
value at DC		-				
• initial value		0.85				
full-scale value operating range fact	tor control supply volt	age rated	1.1			
• initial value		goratoa	0.85			
full-scale value			1.1			
operating range fact value at AC at 60 Hz	tor control supply volt	age rated				
 initial value 			0.85			
 full-scale value 			1.1			
Certificates/ approval	S					
General Product Ap	oproval				EMC	For use in hazard- ous locations
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For use in hazardou	us locations			Declaration of Conformity	Test Certificates	
IECE×	K ATEX	IECEx		CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
Test Certificates	Marine / Shipping					other
Special Test Certific- ate	ABS	Lloyds Register uis		RMRS RMRS	DNV-GL DNV-GL	<u>Confirmation</u>
other						
PROFIL	PROFINET-Certific- ation					
Profibus						
Information- and Do	wnloadcenter (Catalog	ıs, Brochures,)			
https://www.siemens. Industry Mall (Online	<u>com/ic10</u> e ordering system)					
Information- and Do https://www.siemens. Industry Mall (Onlin https://mall.industry.s	<u>com/ic10</u> e ordering system) iemens.com/mall/en/en/			<u>3UF7010-1AU00-0</u>		
Information- and Do https://www.siemens. Industry Mall (Onlin	<u>com/ic10</u> e ordering system) iemens.com/mall/en/en/			<u>3UF7010-1AU00-0</u>		

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7010-1AU00-0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7010-1AU00-0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7010-1AU00-0&lang=en Test report No. A0258, protective separation

https://support.industry.siemens.com/cs/ww/en/view/109748152





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