SIEMENS

product brand name

Data sheet 3UF7011-1AU00-0

SIRIUS



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, 4l/3O 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 3
product type designation	SIMOCODE pro V PN
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 VA
consumed active power	4.8 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

1000 1/	0.4
• at 230 V	3 A
switching capacity current of the NO contacts of the	
relay outputs at DC-13	0.4
• 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	0.02 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)	01.03.2017
certificate of suitability	01.00.2017
-	Voca IECE, DED 40 0004V
• 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	consequence to degree of seventy o
	013//
• 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
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
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 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	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	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	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	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	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	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	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes
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 Yes Yes 4 1 4 Yes 24 V
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 Yes Yes 4 1 4 Yes 24 V 3 0
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 Yes Yes 4 1 4 Yes 24 V 3
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 Yes Yes 4 1 4 Yes 24 V 3 0
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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 Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable
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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 digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
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 digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
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 digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior type of relay outputs wire length for digital signals maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum	corresponds to degree of severity A corresponds to degree of severity A Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
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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 Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
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 Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
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 Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
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 Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
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 Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m Yes Yes Yes Yes Yes Yes

 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	1.5 kΩ
maximum	1.0 1/22
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 reverse starting	Yes
reverse starting	Yes Yes
• star-delta circuit	
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 	No
 protocol is supported PROFINET IO protocol 	Yes
 protocol is supported PROFIsafe protocol 	Yes
	Yes No
• protocol is supported Modbus RTU	No
protocol is supported Modbus RTUprotocol is supported EtherNet/IP	No No
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server 	No No Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 	No No Yes Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server 	No No Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) 	No No Yes Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP 	No No Yes Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS 	No No Yes Yes Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP protocol is supported Address Resolution Protocol (ARP) protocol is supported SNMP protocol is supported HTTPS protocol is supported NTP 	No No Yes Yes Yes Yes Yes Yes
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 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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 	No No Yes Yes Yes Yes Yes Yes Yes No
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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 Yes Yes Yes Yes Yes Yes Yes Yes Yes
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protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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	No No Yes Yes Yes Yes Yes Yes You Yes You Yes Yes Yes Yes Yes Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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 Yes Yes Yes Yes Yes Yes Yes You
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protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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 Yes Yes Yes Yes Yes Yes Yes You O O
protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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 Yes Yes Yes Yes Yes Yes Yes You Yes
protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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	No No Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes Yes Yes Yes
protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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 Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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 Yes
 protocol is supported Modbus RTU protocol is supported EtherNet/IP protocol is supported OPC UA Server protocol is supported LLDP 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 Media Redundancy Protocol for Planned Duplication 	No No Yes

1 DDOF	V
supports PROFlenergy measured values	Yes
supports PROFlenergy shutdown	Yes
transfer rate maximum	100 Mbit/s
PROFINET conformity class	В
identification & maintenance function	V
1&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	
• top	40 mm
• bottom	40 mm
• left	0 mm
• right	0 mm
Connections/ Terminals	
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)
 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
Ambient conditions	
installation altitude at height above sea level	
• 1 maximum	2 000 m
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
3 maximum	4 000 m; max. +40 °C (no protective separation)
ambient temperature	4 000 m, max. 140 O (no proteonive separation)
during operation	-25 +60 °C
during operation during storage	-40 +80 °C
3 3	-40 +80 °C
during transport environmental category	- - -0 100 C
5 .	3K6 (no formation of ice, no condensation, relative hymidity 10 05%)
 during operation acc. to IEC 60721 	3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2
relative humidity	
during operation	5 95 %
contact rating of auxiliary contacts according to UL	B300 / R300
Short-circuit protection	2000.1000
	Fuse links: aC 6 A quick response 40 A (IEC 60047 5 4) ministrus
design of short-circuit protection per output	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)
Safety related data	
touch protection against electrical shock Galvanic isolation	finger-safe
(electrically) protective separation acc. to IEC 60947-1	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 circuit/ Control	
product function soft starter control	Yes

type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
 at 50 Hz rated value 	110 240 V
 at 60 Hz rated value 	110 240 V
control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
relative symmetrical tolerance of the control supply voltage frequency	5 %
control supply voltage at DC	
rated value	110 240 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• full-scale value	1.1
Cortificatos/ approvals	

Certificates/ approvals

General Product Approval

EMC





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates





IECEx



IECEx





Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Special Test Certificate

Special Test Certificate









other

Confirmation



Profibus

urther information

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=3UF7011-1AU00-0

Cax online generator

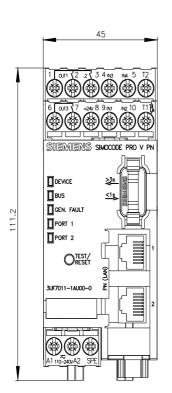
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7011-1AU00-0

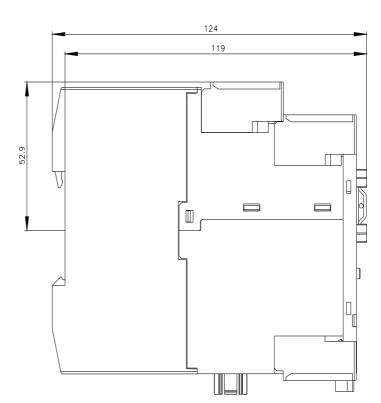
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AU00-0

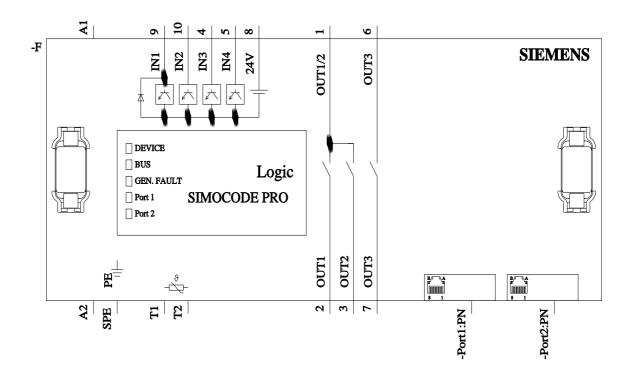
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7011-1AU00-0&lang=en

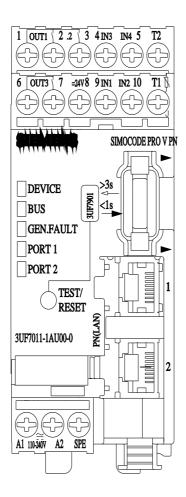
Test report No. A0258, protective separation

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









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