SIEMENS

Data sheet 3UF7011-1AU00-1



Basic unit SIMOCODE pro V PN GP Ethernet/PROFINET IO, PN system redundancy, OPC UA server, Web server, transmission rate 100 Mbps, 2 x bus connection via RJ45, 4 I/3 Q freely parameterizable, Us: 110...240 V AC/DC, input for thermistor connection Monostable relay outputs, expandable by 1 extension module(DM, TM, EM)

product brand name	SIRIUS
product designation	Motor management system
design of the product	basic unit 3
product type designation	SIMOCODE pro V PN GP
eneral 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 	No
• fail-safe digital I/O module	No
ground-fault monitoring module	Yes
control unit with display	No
• control unit	Yes
analog I/O module	No
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	
• according 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

a at 220 V	2.0
• 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
· · · · · · · · · · · · · · · · · · ·	100 000
electrical endurance (operating cycles) typical	
buffering time in the event of power failure	0 s F
reference code according to IEC 81346-2	r
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)	08/31/2018
certificate of suitability	
 according to ATEX directive 2014/34/EU 	BVS 06 ATEX F001
 acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107) 	ITS21UKEX0464, ITS21UKEX0455X
according to UKCA	ITS21UKEX0464
explosion device group and category according to ATEX	II (2) G, II (2) D, I (M2)
directive 2014/34/EU	
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	
 due to burst according to IEC 61000-4-4 	2 kV (power ports) / 1 kV (signal ports)
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
due to conductor-conductor surge according to IEC	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	
parameterizable inputs	Yes
parameterizable outputs	Yes
number of inputs	4
for thermistor connection	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	
 with conductor cross-section = 0.5 mm² maximum 	50 m
 with conductor cross-section = 1.5 mm² maximum 	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
Protective and monitoring functions	
product function	
asymmetry detection	Yes
blocking current evaluation	Yes
- blooking outlonk evaluation	
power factor monitoring	No

• ploans failure detection • phase sequence recognition • voltage detection • nonablating of number of start operations • conventing detection • nonablating of number of start operations • conventing detection • • conventing the detection • conventing switch circuit •		
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	(MRPD)	
• supports PROFlenergy measured values Yes		
	supports PROFlenergy measured values	Yes

 supports PROFlenergy shutdown 	Yes
transfer rate maximum	100 Mbit/s
PROFINET conformity class	В
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	
• top	40 mm
• bottom	40 mm
• left	0 mm
• right	0 mm
Connections/ Terminals	
product component removable terminal for auxiliary and	Yes
control circuit	
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)
 for AWG cables solid 	1x (20 12), 2x (20 14)
for 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
- O ma avrime uma	2 000 mg may 150 °C (no protective concretion)
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
2 maximum 3 maximum	4 000 m; max. +40 °C (no protective separation)
• 3 maximum	
• 3 maximum ambient temperature	4 000 m; max. +40 °C (no protective separation)
3 maximum ambient temperature during operation	4 000 m; max. +40 °C (no protective separation) -25 +60 °C
3 maximum ambient temperature during operation during storage	4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C
3 maximum ambient temperature during operation during storage during transport	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
3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721	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
3 maximum ambient temperature • during operation • during storage • during transport environmental category	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
3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation according to IEC 60721	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
ambient temperature during operation during storage during transport environmental category during operation according to IEC 60721 during storage according to IEC 60721	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
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	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
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	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
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 • during operation	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 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 during operation contact rating of auxiliary contacts according to UL	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 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	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 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	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-
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	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-
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	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 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	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 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	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
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	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
ambient temperature - during operation - during storage - during transport - environmental category - during storage 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	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)
ambient temperature - during operation - during storage - during transport - environmental category - during storage according to IEC 60721 - during storage according to IEC 60721 - during storage 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 Control circuit/ Control product function soft starter control	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)
ambient temperature - during operation - during storage - during transport - environmental category - during storage according to IEC 60721 - during storage 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 - 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 Control circuit/ Control product function soft starter control type of voltage of the control supply voltage	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)

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
inrush current peak	
• at 240 V	5 A
duration of inrush current peak	
● at 240 V	1 ms
ertificates/ approvals	

General Product Approval

EMC



Confirmation









For use in hazardous locations

Declaration of Conformity











Explosion Protection Certificate



Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Special Test Certificate





Marine / Shipping

other





Confirmation



Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3UF7011-1AU00-1

Cax online generator

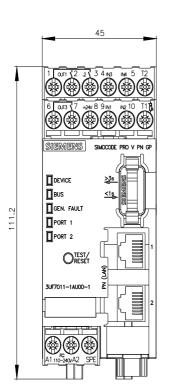
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7011-1AU00-1

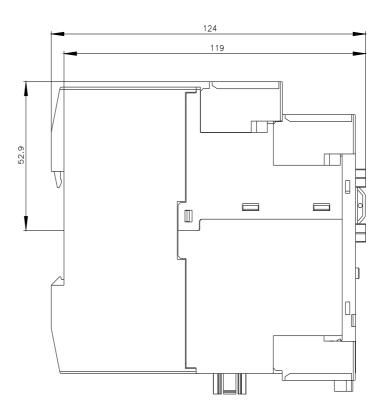
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

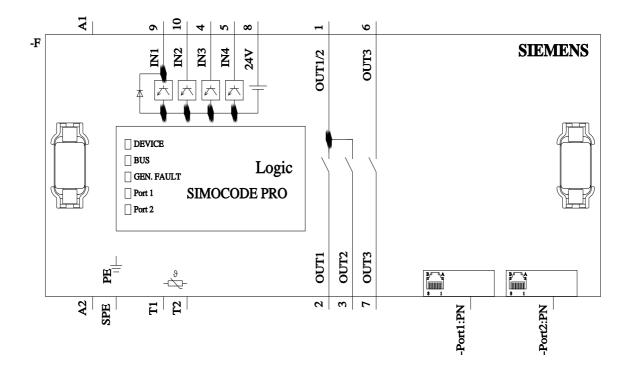
https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AU00-1

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

Test report No. A0258, protective separation https://support.industry.siemens.com/cs/ww/en/view/109748152







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