product brand name

Data sheet

3UF7010-1AU00-0AX0



Basic unit SIMOCODE pro V PB, PROFIBUS DP interface 12 Mbps, RS485, 4I/3O freely parameterizable, US: 110...240 V AC/DC, Input for thermistor connection monostable relay outputs, with coated printed circuit boards, expandable by extension modules

design of the product	basic unit 2
product type designation	SIMOCODE pro V
General technical data	
product function	
current measurement	No
 voltage measurement 	No
active power measurement	Yes
 energy measurement 	No
 frequency measurement 	No
 bus communication 	Yes
 data acquisition function 	Yes
 diagnostics function 	Yes
 password protection 	Yes
• test function	Yes
maintenance function	Yes
product feature protective coating on printed-circuit board	Yes; acc. to IPC-A-610
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
 decoupling module 	Yes
 control unit with display 	Yes
• control unit	Yes
analog I/O module	Yes
apparent power consumption	8.3 VA
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
shock resistance	
• according to IEC 60068-2-27	15g / 11 ms

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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	0.2 s
reference code according to IEC 81346-2	F
continuous current of the NO contacts of the relay outputs	C A
• at 50 °C	6 A
• at 60 °C	5 A
type of input characteristic	Type 1 in accordance with EN 61131-2 05/01/2012
Substance Prohibitance (Date) SVHC substance name	Lead - 7439-92-1
SALIC SUBStatice Haille	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.374 kg
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 61000-4-5 	1 kV
 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	
Inputs/ Outputs product function	
	Yes
product function	Yes Yes
product function • parameterizable inputs • parameterizable outputs number of inputs	
product function • parameterizable inputs • parameterizable outputs number of inputs • for thermistor connection	Yes 4 1
product function	Yes 4
product function	Yes 4 1 4
product function	Yes 4 1 4 Yes
product function	Yes 4 1 4 Yes 24 V
product function	Yes 4 1 4 Yes 24 V 3
product function	Yes 4 1 4 Yes 24 V 3 0
product function	Yes 4 1 4 Yes 24 V 3 0 3
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m 50 m 150 m 250 m
product function	Yes 4 1 4 Yes 24 V 3 0 3 monostable Monostable 300 m

 power factor monitoring 	Yes
 ground fault detection 	Yes
 ground-fault monitoring 	No
 phase failure detection 	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 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
 PROFINET IO protocol 	No
PROFIsafe protocol	Yes
Modbus RTU	No
EtherNet/IP	No
OPC UA Server	No
• LLDP	No
 Address Resolution Protocol (ARP) 	No
• SNMP	No
• HTTPS	No
• NTP	No
Media Redundancy Protocol (MRP)	No
number of interfaces	
 according to PROFINET 	0
 according to PROFIBUS 	1
according to Ethernet/IP	0
product function	
• web server	No
shared device	No
 at the Ethernet interface Autocrossover 	No
 at the Ethernet interface Autonegotiation 	No
 at the Ethernet interface Autosensing 	No
 is supported Device Level Ring (DLR) 	No
• is supported PROFINET system redundancy (S2)	No
 supports PROFlenergy measured values 	No

supports PROFlenergy shutdown	No
transfer rate maximum	12 Mbit/s
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	9-pin SUB-D socket (12 Mbit) / screw terminal (1.5 Mbit)
Installation/ mounting/ dimensions	o piir oob b sooket (12 wish) / solew terriintal (1.0 wish)
mounting position	any
fastening method	screw and snap-on mounting
height	111 mm
width	45 mm
depth	124 mm
required spacing	124 11111
• top	40 mm
• bottom	40 mm
• left	0 mm
	0 mm
• right Connections/ Terminals	O IIIII
	Voc
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	31
• 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
type of connectable conductor cross-sections for	2x 0.34 mm², AWG 22
PROFIBUS wire	
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	
during operation	-25 +50 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
environmental category	
 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport according 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	
design of short-circuit protection per output	Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-
Electrical Safety	breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
touch protection against electrical shock	finger-safe
ATEX	
certificate of suitability	
 acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107) 	ITS21UKEX0464, ITS21UKEX0455X
Galvanic isolation	

(electrically) protective separation according 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)
design of the electrical isolation	Protective separation in accordance with IEC 60947-1 for all circuits
• note	Test report No. A0258 must be observed (link see further information)
ontrol 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
inrush current peak	
• at 240 V	15 A
duration of inrush current peak	
• at 240 V	1 ms
pprovals Certificates	

General Product Approval





Confirmation







EMV

EMV Test Certificates Environment other

Type Test Certific-<u>KC</u>

ates/Test Report

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

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

Confirmation



Industrial Communication Environment

Environmental Con-firmations



Profibus

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

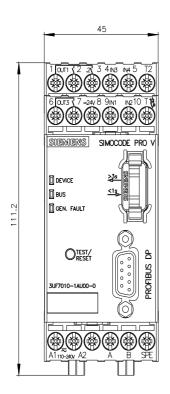
https://www.siemens.com/ic10

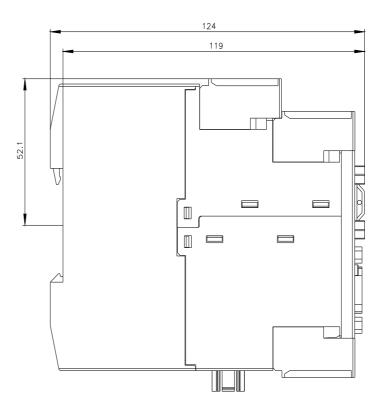
Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7010-1AU00-0AX0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lanq=en&mlfb=3UF7010-1AU00-0AX0





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