SIEMENS

Data sheet 3UF7300-1AB00-0



Digital module, 4 inputs and 2 relay outputs, input voltage 24 V DC, relay outputs monostable, max. 2 digital modules, for SIMOCODE pro V basic unit

product brand name	SIRIUS		
product designation	digital modules		
General technical data			
product component			
 input for thermistor connection 	No		
digital input	Yes		
 input for analog temperature sensors 	No		
 input for ground fault detection 	No		
• relay output	Yes		
consumed active power	0.7 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		
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		
reference code according to IEC 81346-2	K		
reference code according to IEC 81346-2:2019	K		
continuous current of the NO contacts of the relay outputs			
● at 50 °C	6 A		
• at 60 °C	5 A		
Substance Prohibitance (Date)	05/01/2012		
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8		
certificate of suitability according to ATEX directive 2014/34/EU	BVS 06 ATEX F001		
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)		
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 	1 kV		
• 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	corresponds to degree of severity A		
CISPR11 field-bound HF interference emission according to CISPR11	corresponds to degree of severity A		
Inputs/ Outputs	corresponds to degree of severity //		
product function			
•	Yes		
parameterizable inputs parameterizable cutouts	Yes		
parameterizable outputs	4		
number of inputs			
number of digital inputs	4		
with a common reference potential	4		
digital input version	Ne		
• type 1 acc. to IEC 61131	No V		
• type 2 acc. to IEC 61131	Yes		
number of analog inputs	0		
input voltage at digital input at DC rated value	24 V		
number of outputs	2		
number of semiconductor outputs	0		
number of outputs as contact-affected switching element	2		
number of analog outputs	0		
switching behavior	monostable		
property of contacts of the relay outputs	Floating NO contacts (NC reaction parameterizable via internal signal conditioning), connected to common ground, can be freely assigned to the control functions (e.g. line, star (wye), delta contactor or signaling of the operating state)		
wire length for digital signals maximum	300 m		
wire length for digital signals maximum Installation/ mounting/ dimensions	300 m		
	any		
Installation/ mounting/ dimensions			
Installation/ mounting/ dimensions mounting position	any		
Installation/ mounting/ dimensions mounting position fastening method	any screw and snap-on mounting		
Installation/ mounting/ dimensions mounting position fastening method height	any screw and snap-on mounting 92 mm		
Installation/ mounting/ dimensions mounting position fastening method height width	any screw and snap-on mounting 92 mm 22.5 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	any screw and snap-on mounting 92 mm 22.5 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth	any screw and snap-on mounting 92 mm 22.5 mm 124 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm		
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Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Ves		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Ves 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 16)		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14)		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded tightening torque with screw-type terminals	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.8 1.2 N·m		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded tightening torque with screw-type terminals tightening torque [lbf-in] with screw-type terminals	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14)		
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Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded tightening torque with screw-type terminals tightening torque [lbf-in] with screw-type terminals Ambient conditions installation altitude at height above sea level • 1 maximum	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.8 1.2 N·m 7 10.3 lbf·in		
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mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded tightening torque with screw-type terminals tightening torque [lbf-in] with screw-type terminals Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.8 1.2 N·m 7 10.3 lbf·in 2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)		
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded tightening torque with screw-type terminals tightening torque [lbf-in] with screw-type terminals Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.8 1.2 N·m 7 10.3 lbf·in 2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C		
mounting position fastening method height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded tightening torque with screw-type terminals tightening torque [lbf-in] with screw-type terminals Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm Test 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.8 1.2 N·m 7 10.3 lbf·in 2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)		

environmental category					
 during operation according to IEC 60721 	3 K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), $3 M6$				
during storage according to IEC 60721	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6				
during transport according to IEC 60721	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6				
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-breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)				
Electrical Safety					
touch protection against electrical shock	finger-safe				
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)				
Control circuit/ Control					
type of voltage of the control supply voltage	DC				
control supply voltage at DC					
rated value	24 V				
operating range factor control supply voltage rated value at DC					
• initial value	0.8				
• full-scale value	1.2				
Approvals Certificates					
General Product Approval		EMC	For use in hazard-		



Confirmation









IECEX

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



Explosion Protection Certificate





Type Test Certificates/Test Report



Marine / Shipping

other





Confirmation



Further information

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)

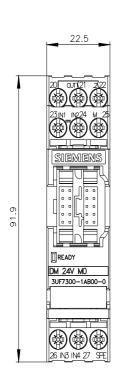
ens.com/mall/en/en/Catalog/product?mlfb=3UF7300-1AB00-0

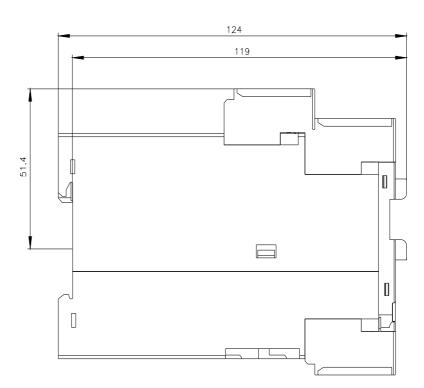
Cax online generator

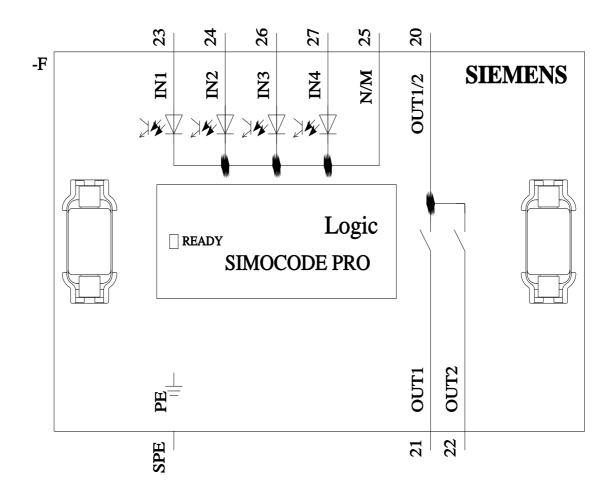
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3UF7300-1AB00-0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)







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