SIEMENS

Data sheet

3UF7310-1AU00-0



Digital module, 4 inputs and 2 relay outputs, input voltage 110-240 V AC/DC relay outputs bistable, 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		
vibration resistance according to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g		
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	К		
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		
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 	10 V		

61000-4-6			
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	corresponds to degree of severity A		
CISPR11			
Inputs/ Outputs			
product function			
 parameterizable inputs 	Yes		
 parameterizable outputs 	Yes		
number of inputs	4		
number of digital inputs	4		
 with a common reference potential 	4		
digital input version			
• type 1 acc. to IEC 61131	No		
• type 2 acc. to IEC 61131	No		
number of analog inputs	0		
input voltage at digital input at DC rated value	110 V		
number of outputs	2		
number of semiconductor outputs	0		
number of outputs as contact-affected switching	2		
element			
number of analog outputs	0		
switching behavior	bistable		
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	200 m		
Installation/ mounting/ dimensions			
mounting position	any		
factoning mathed	sorow and shap on mounting		
fastening method	screw and snap-on mounting		
fastening method height	screw and snap-on mounting 92 mm		
_			
height	92 mm		
height width depth required spacing	92 mm 22.5 mm 124 mm		
height width depth	92 mm 22.5 mm 124 mm 40 mm		
height width depth required spacing	92 mm 22.5 mm 124 mm		
height width depth required spacing • top	92 mm 22.5 mm 124 mm 40 mm		
height width depth required spacing • top • bottom	92 mm 22.5 mm 124 mm 40 mm 40 mm		
height width depth required spacing • top • bottom • left	92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm		
height width depth required spacing • top • bottom • left • right	92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm		
height width depth required spacing • top • bottom • left • right Connections/ Terminals	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm		
height width depth required spacing • top • bottom • left • right Connections/ Terminals product component removable terminal for auxiliary	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm		
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	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)		
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	92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)		
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 • at AWG cables solid	92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 14), 2x (20 16)		
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 • at AWG cables solid • at AWG cables stranded	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14)		
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 • at AWG cables solid • at AWG cables stranded tightening torque with screw-type terminals	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm 0 mm Yes $1x (0.5 4.0 mm^2), 2x (0.5 2.5 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.5 mm^2)$ 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) $0.8 1.2 N \cdot m$		
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 • at AWG cables solid • at AWG cables stranded	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm 0 mm Yes 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14)		
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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 • at AWG cables solid • at AWG cables stranded tightening torque with screw-type terminals tightening torque [lbf-in] 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	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm 0 mm 7 Yes $1x (0.5 4.0 mm^2), 2x (0.5 2.5 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.5 mm^2)$ 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) $0.8 1.2 N \cdot m$ 7 10.3 lbf in 2 000 m 3 000 m; max. +50 °C (no protective separation)		
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 • at AWG cables solid • at AWG cables solid • at 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	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm 0 mm 7 Yes $1x (0.5 4.0 mm^2), 2x (0.5 2.5 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.5 mm^2)$ 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) $0.8 1.2 N \cdot m$ 7 10.3 lbf in 2 000 m 3 000 m; max. +50 °C (no protective separation)		
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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 • at AWG cables solid • at AWG cables solid • at 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 • 3 maximum ambient temperature • during operation	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm 0 mm Yes Yes 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 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		
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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 • at AWG cables solid • at AWG cables solid • at AWG cables stranded tightening torque with screw-type terminals tightening torque [lbf·in] with screw-type terminals Mobient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport	92 mm 22.5 mm 124 mm 40 mm 0 mm 0 mm 0 mm 7 Yes 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 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 -40 +80 °C		
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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)				
Safety related data						
touch protection against electrical shock		finger-safe				
Galvanic isolation						
(electrically) protective separation according 60947-1	to IEC	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		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		50 60 Hz				
control supply voltage at DC						
rated value	unter d	110 240 V				
operating range factor control supply voltage value at DC	rated					
initial value		0.85				
• full-scale value		1.1				
operating range factor control supply voltage value at AC at 50 Hz	rated					
 initial value 		0.85				
 full-scale value 		1.1				
operating range factor control supply voltage value at AC at 60 Hz	rated					
initial value		0.85				
• full-scale value	_	1.1				
Certificates/ approvals						
General Product Approval				EMC		
	Confirmation			A		
		(L)	EHL			
CSA CCC		UL		RCM		
Declaration of Conformity To	est Certificat	es Marine / Shipping	9			
	vpe Test Cert	ific-		1907HD 34		
	tes/Test Rep		(Gar)			
		a survey		DNV-GL		
EG-Konf.		ABS	RMRS	DEVOLUTION		
other						
Confirmation						
00000						
Profibus						
Further information						
Sigmons has decided to exit the Russian mar	kat (and har	A				

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=3UF7310-1AU00-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7310-1AU00-0

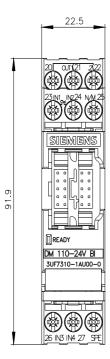
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

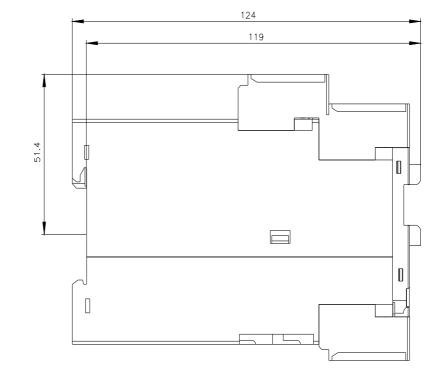
https://support.industry.siemens.com/cs/ww/en/ps/3UF7310-1AU00-0

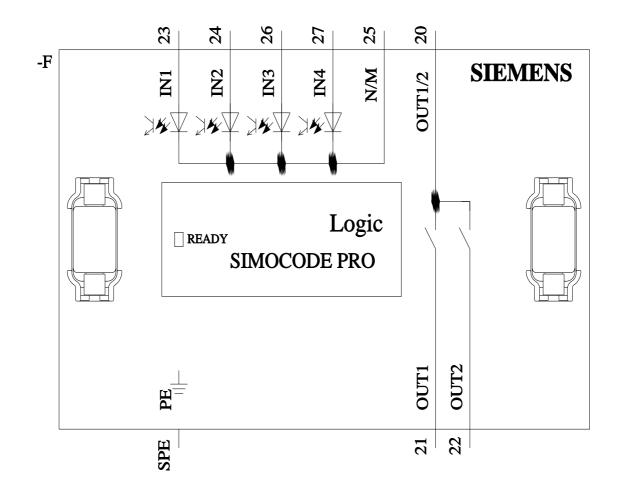
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7310-1AU00-0&lang=en</u>

Test report No. A0258, protective separation

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







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