SIEMENS

Data sheet

3UF7012-1AU00-0



Basic unit SIMOCODE pro V MR, MODBUS RTU interface 57.6 Kbps, RS 485, 4I/30 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 2			
product type designation	SIMOCODE pro V MR			
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 V·A			
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			
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			

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• 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 (switching cycles) typical	10 000 000				
electrical endurance (switching cycles) typical	100 000				
buffering time in the event of power failure	0.2 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)	01.05.2012 00:00:00				
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 acc. to IEC 60947-1	class A				
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3				
conducted interference					
• due to burst acc. to IEC 61000-4-4	2 kV (power ports) / 1 kV (signal ports)				
 due to burst acc. to he of 000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV				
 due to conductor-conductor surge acc. to IEC 01000-4-5 	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				
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	corresponds to degree of severity A corresponds to degree of severity A				
field-bound HF interference emission acc. to CISPR11					
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs					
field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	corresponds to degree of severity A				
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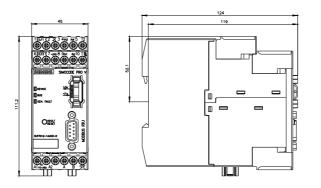
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• active power monitoring Yes product function Yes • available protection Yes • available of thermistor motor protection Yes total cold resistance number of sensors in series 1.5 kD maximum 3 400 3 800 Ω • of the short-circuit control 9 0 • release value of thermoresistor 1500 1 650 Ω Mater centrol functions Yes • insult breaker control Yes • oble-changing switch circuit Yes • oble-changing switch circuit Yes • oble-changing switch circuit Yes • protocol is supported PROFINET to protocol	 undervoltage detection 	Yes
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• everlag protection Yes • evaluation of thermistor of sonors in sories 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 Product functions 9 Ω • or dire short-circuit control 9 Ω • or dire short-circuit control 9 Ω • or arameterizable overload relay Yes • circuit bracker control Yes • direct start Yes • able control Yes • pole-changing witch circuit Yes • able control Yes • able control Yes • able control Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP No	product function	
• evaluation of thermistor motor protection Yes total cold resistance number of sensors in series 1.5 kΩ response value of thermoresistor 3 400 3 800 Ω • of the short-circuit control 9 Ω release value of thermoresistor 1550 1550 Ω product functions Yes • parameterizable overload relay Yes • in the short-circuit control Yes • indire control functions Yes • indire control Yes • star-delia circuit Yes • pole-changing witch reversing circuit Yes • protecol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP protocol No • proto	 current detection 	Yes
India cold resistance number of sensors in series maximum 1.5 kΩ response value of thermoresistor 9 dQ • of the short-circuit control 9 D release value of thermoresistor 1500 1850 D Product functions yes • circuit breaker control Yes • circuit breaker control Yes • direct stat Yes • star-delta reversing circuit Yes • balander reversing circuit Yes • oble-changing switch circuit Yes • pole-changing switch circuit Yes • protocol is supported PROFIBUS DP protocol No • protocol is supported PROFIBUS DP No •	 overload protection 	Yes
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	 Dahlander reversing circuit 	Yes
	-	Yes
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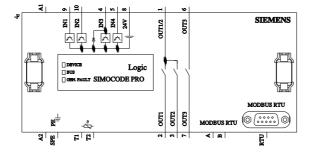
	-				
transfer rate maximum	0.057 Mbit/s				
identification & maintenance function					
 I&M0 - device-specific information 	Yes				
 I&M1 – higher level designation/location designation 	Yes				
 I&M2 - installation date 	Yes				
I&M3 - comment	Yes				
type of electrical connection of the communication interface	9-pin D-sub socket (57.6 Kbit) / screw terminal (57.6 Kbit)				
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 mm ²), 2x (0.5 1.5 mm ²)				
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				
type of connectable conductor cross-sections for PROFIBUS wire	2x 0.34 mm², AWG 22				
Ambient conditions					
Ambient conditions installation altitude at height above sea level	2 000 m				
Ambient conditions	2 000 m 3 000 m: max. +50 °C (no protective separation)				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum	3 000 m; max. +50 °C (no protective separation)				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum					
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature	3 000 m; max. +50 °C (no protective separation)				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport	3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation) -25 +60 °C -40 +80 °C				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category	3 000 m; max. +50 °C (no protective separation) 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%),				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 	3 000 m; max. +50 °C (no protective separation) 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),				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 during storage acc. to IEC 60721 	3 000 m; max. +50 °C (no protective separation) 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				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category oduring storage acc. to IEC 60721 oduring transport acc. to IEC 60721	3 000 m; max. +50 °C (no protective separation) 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				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 relative humidity	3 000 m; max. +50 °C (no protective separation) 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				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during storage acc. to IEC 60721 • during transport acc. to IEC 60721	3 000 m; max. +50 °C (no protective separation) 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 conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation • during transport acc. to IEC 60721	3 000 m; max. +50 °C (no protective separation) 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 conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature during operation during storage during transport environmental category oduring storage acc. to IEC 60721 eduring transport acc. to IEC 60721 eduring transport acc. to IEC 60721 oduring operation contact rating of auxiliary contacts according to UL Short-circuit protection	3 000 m; max. +50 °C (no protective separation) 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				
Ambient conditions installation altitude at height above sea level • 1 maximum • 2 maximum • 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during operation • during operation • during transport acc. to IEC 60721 • during operation • during transport acc. to IEC 60721 • during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output	3 000 m; max. +50 °C (no protective separation) 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				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. 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	3 000 m; max. +50 °C (no protective separation) 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 conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. 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 acc. to IEC 60947-1	3 000 m; max. +50 °C (no protective separation) 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 conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. 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	3 000 m; max. +50 °C (no protective separation) 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,				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature • during operation • during storage • during transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. 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 acc. to IEC 60947-1	3 000 m; max. +50 °C (no protective separation) 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,				
Ambient conditions installation altitude at height above sea level 1 maximum 2 maximum 3 maximum ambient temperature 0 during operation 0 during storage 0 during transport environmental category 0 during operation acc. to IEC 60721 0 during storage acc. to IEC 60721 0 during transport acc. to IEC 60721 0 during operation 0 during operation 0 during operation 0 during operation acc. 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 acc. to IEC 60947-1	3 000 m; max. +50 °C (no protective separation) 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)				

control supply volta	-						
• at 50 Hz rated value			110 240 V 110 240 V				
at 60 Hz rated v control supply volta			110	. 240 V			
• 1 rated value	genequency		50 Hz				
• 2 rated value			60 Hz				
relative symmetrical voltage frequency	tolerance of the contro	ol supply	5 %				
control supply volta • rated value	ge at DC		110	. 240 V			
	tor control supply volta	ge rated		110 240 V			
 initial value 			0.85	0.85			
 full-scale value 			1.1	1.1			
value at AC at 50 Hz	or control supply volta	ge rated	0.05				
 initial value full-scale value 			0.85 1.1				
	or control supply volta	ge rated					
 initial value 			0.85				
• full-scale value			1.1				
Certificates/ approval	S						
General Product Ap	proval				EMC	For use in hazard- ous locations	
SP SA		(UL)		EHC		K ATEX	
For use in hazardou	us locations			Declaration of Conformity	Test Certificates		
IECE×	IECEx	(Ex ATEX		CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	
Test Certificates	Marine / Shipping					other	
Special Test Certific- ate	ABS	Lloyds Register uis		RMRS RMRS	DNV-GL	<u>Confirmation</u>	
other							
0000	PROFINET-Certific- ation						
Profibus							
Further information							
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7012-1AU00-0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7012-1AU00-0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7012-1AU00-0&lang=en Test report No. A0258, protective separation

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