SIEMENS

Data sheet

3UF7320-1AU00-0



Fail-safe digital module DM-F local, for fail-safe shutdown via hardware signal Us: 110...240 V AC/DC 2 relay enabling circuits, 2 relay outputs, safety function can be set via DIP switch, maximum achievable SIL IEC 61508: 3, maximum achievable PL ISO 13849-1: E

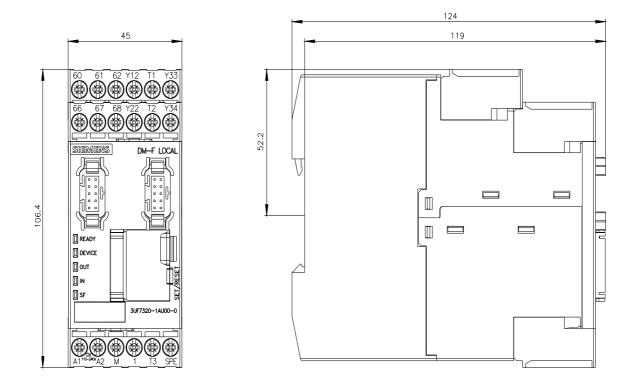
product brand name SIRUS product designation Fail-safe digital module design of the product for emergency off and safety doors product type designation DM-FL Exercise technical data Product function • EMERGENCY OFF function Yes • automatic start Yes • light array monitoring Yes • light array monitoring Yes • magnetically operated switch monitoring NC-NO Yes • magnetically operated switch monitoring NC-NC Yes • product function Yes • monitored start-up Yes • monitorie dstart-up Yes • monitorie dstart-up Yes • product funct function Yes • nopul for thermistor connection No • digital input Yes • nopul for analog temperature sensors No • input for ground fault detection No • nopul for analog temperature sensors No • nopul for analog temperature sensors No • nopul for analog temperature sensors No	needuct broad name	
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product type designation DM-FL ieneral tachnical data product function EMERSENCY OFF function Yes automatic start (jipt barrier monitoring Yes (jipt tarray monitoring NC-NO Yes magnetically operated switch monitoring NC-NO Yes (jipt tarray construct fasture cross-circuit-proof Yes monitored start-up Yes (jipt for thermistor connection (jipt for ground fault detection (jipt for ground fault detection (not for ground fault detection (sout for ground fault detection		C C
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operating frequency maximum360 1/hswitching capacity current of the NO contacts of the relay outputs at AC-15 • at 24 V3 A• at 24 V3 A• at 120 V3 A• at 240 V1.5 Aswitching capacity current of the NO contacts of the	shock resistance according to IEC 60068-2-27	15g / 11 ms
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 at 120 V at 120 V at 240 V switching capacity current of the NO contacts of the 		
• at 240 V 1.5 A 1.5 A	• at 24 V	3 A
switching capacity current of the NO contacts of the	• at 120 V	3 A
	• at 240 V	1.5 A
	switching capacity current of the NO contacts of the relay outputs at DC-13	
• at 24 V 4 A	• at 24 V	4 A
• at 60 V 0.55 A	• at 60 V	0.55 A
• at 125 V 0.22 A	• at 125 V	0.22 A
• at 250 V 0.11 A	• at 250 V	0.11 A

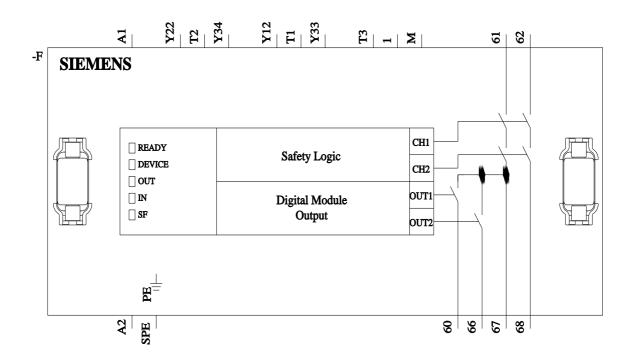
switching capacity current of relay enabling circuits at	
AC-15	
• at 24 V	3 A
• at 120 V	3 A
• at 240 V	1.5 A
switching capacity current of relay enabling circuits at DC-13	
• at 24 V	4 A
• at 60 V	0.55 A
• at 125 V	0.22 A
• at 250 V	0.11 A
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) typical	100 000
buffering time in the event of power failure	200 ms
make time with automatic start	50
• typical	50 ms 100 ms
● maximum ● at DC maximum	100 ms
• at AC maximum	100 ms
after power failure typical	8 000 ms
after power failure maximum	8 200 ms
backslide delay time after opening of the safety	50 ms
circuits typical	
backslide delay time in the event of power failure	
● typical	220 ms
• maximum	320 ms
reference code according to IEC 81346-2	F
type of input characteristic	Type 2 in accordance with EN 61131-2
Substance Prohibitance (Date)	05/01/2012 DVS 06 ATEX 5001
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 emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1	class A corresponds to degree of severity 3
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference	corresponds to degree of severity 3
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EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs input version with safety-related function design of input • cascading input/functional switching	corresponds to degree of severity 3 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V 10 V/m 6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A corresponds to degree of severity A corresponds to degree of severity A Yes Yes 5 2 sensor inputs 24 V DC, 1 start signal input 24 V DC, 1 cascading input 24 V DC, 1 feedback circuit input 24 V DC Yes
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 field-bound HF interference emission according to CISPR11 inputs/ Outputs product function • parameterizable inputs • parameterizable outputs number of inputs input version with safety-related function design of input • cascading input/functional switching • feedback input	corresponds to degree of severity 3 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V 10 V/m 6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A corresponds to degree of severity A corresponds to degree of severity A 2 sensor inputs 24 V DC, 1 start signal input 24 V DC, 1 cascading input 24 V DC, 1 feedback circuit input 24 V DC Yes
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to field-bound field enterference emission according to field-bound field enterf	corresponds to degree of severity 3 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V 10 V/m 6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A corresponds to degree of severity A corresponds to degree of severity A Yes Yes 5 2 sensor inputs 24 V DC, 1 start signal input 24 V DC, 1 cascading input 24 V DC, 1 feedback circuit input 24 V DC Yes
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EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 field-bound HF interference emission according to CISPR11 inputs/ Outputs product function • parameterizable inputs • parameterizable outputs input version with safety-related function design of input • cascading input/functional switching • feedback input • start input pulse duration • of the sensor input minimum	corresponds to degree of severity 3 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V 10 V/m 6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A corresponds to degree of severity A Yes Yes <td< td=""></td<>
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 field-bound field bound HF interference emission according to CISPR11 field-bound field bound fi	Corresponds to degree of severity 3 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V 10 V/m 6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A corresponds to degree of severity A Ves Yes 5 2 sensor inputs 24 V DC, 1 start signal input 24 V DC, 1 cascading input 24 V DC, 1 feedback circuit input 24 V DC Yes Yes Yes Yes 30 ms 0.2 s
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 field-bound HF interference emission according to CISPR11 inputs/ Outputs product function • parameterizable inputs • parameterizable outputs input version with safety-related function design of input • cascading input/functional switching • feedback input • start input pulse duration • of the sensor input minimum	corresponds to degree of severity 3 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V 10 V/m 6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A corresponds to degree of severity A Yes Yes <td< td=""></td<>

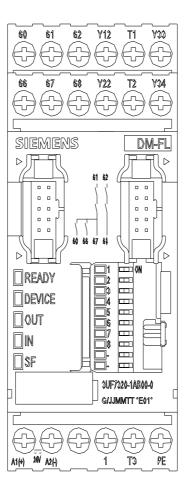
 with a common reference potential 	4				
digital input version					
 type 1 acc. to IEC 61131 	No				
 type 2 acc. to IEC 61131 	Yes				
number of analog inputs	0				
number of sensor inputs					
 1-channel or 2-channel 	1				
2-channel	1				
number of outputs	2				
number of semiconductor outputs	2				
number of outputs					
 as contact-affected switching element 	2				
 as contact-affected switching element as NO 	2				
contact safety-related instantaneous contact	2				
number of analog outputs	0				
switching behavior	monostable				
property of contacts of the relay outputs	Fail-safe NO contacts				
wire length for digital signals maximum	1 500 m				
5 5 5	1 300 m				
Product Function					
suitability for use					
 position switch monitoring 	Yes				
 EMERGENCY-OFF circuit monitoring 	Yes				
 valve monitoring 	No				
 opto-electronic protection device monitoring 	Yes				
 tactile sensor monitoring 	No				
 magnetically operated switch monitoring 	Yes				
 proximity switch monitoring 	No				
 safety switch 	Yes				
 safety-related circuits 	Yes				
Installation/ mounting/ dimensions					
mounting position	201/				
fastening method	any screw and snap-on mounting				
height	106 mm				
width	45 mm				
	124 mm				
depth	124 mm				
required spacing	10				
• top	40 mm				
• bottom	40 mm				
• left	0 mm				
• right	0 mm				
Connections/ Terminals					
product component removable terminal for auxiliary	Yes				
and 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)				
 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				
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	25 ±60 °C				
during operation	-25 +60 °C				
during storage	-40 +80 °C				
during transport	-40 +80 °C				
environmental category					
 during operation according to IEC 60721 	3K6 (no formation of ice, no condensation, relative humidity 10 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6				
e during storage according to IEC 60724					
 during storage according to IEC 60721 	1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4				
	ren found matcher ger into the deviceo), min				

 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 the fuse link for short-circuit protection of relay enabling circuits required	gL/gG: 4 A			
Safety related data				
safety device type according to IEC 61508-2	Туре В			
type of the safety-related wiring of the inputs	single-channel and two-channel			
Safety Integrity Level (SIL)				
at single-channel evaluation according to IEC 61508	1			
	3			
at two-channel evaluation according to IEC 61508	5			
SIL Claim Limit (subsystem)	4			
at single-channel evaluation according to IEC 62061	1			
at two-channel evaluation according to IEC 62061	3			
performance level (PL)				
 at single-channel evaluation according to ISO 13849-1 	d			
 at two-channel evaluation according to ISO 13849-1 	e			
 category at two-channel evaluation according to ISO 13849-1 	4			
at two-channel evaluation according to ISO 13849-1 at single-channel evaluation according to ISO	2			
 at single-channel evaluation according to ISO 13849-1 	2			
stop category according to EN 60204-1	0			
average diagnostic coverage level (DCavg)				
at single-channel evaluation	90 %			
at two-channel evaluation	99 %			
diagnostics test interval by internal test function	28 800 s			
maximum	200000			
failure rate [FIT]				
 at rate of recognizable hazardous failures (λdd) 	879.12 FIT			
 at rate of non-recognizable hazardous failures (λdu) 	7.17 FIT			
PFDavg with low demand rate				
at single-channel evaluation according to IEC 61508	0.00065			
 at single-channel evaluation according to IEC 61508 at two-channel evaluation according to IEC 61508 	2E-5			
hardware fault tolerance				
at single-channel evaluation according to IEC 61508	0			
at two-channel evaluation according to IEC 61508	1			
safe state	Safety outputs switched off			
touch protection against electrical shock	finger-safe			
contact reliability	0.1 million operating cycles (AC15, 230 V, 2 A)			
Galvanic isolation				
(electrically) protective separation according to IEC 60947-1	All circuits in SIMOCODE pro are with protective separation, i.e. they are designed with doubled creepage paths and clearances. NOTICE: The information in the "Protective Separation" test report, No. 2668, must be observed.			
design of the electrical isolation	Protective separation in accordance with IEC 60947-1 for all circuits, up to installation altitude of 2000 m			
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 frequency				
• 1 rated value	50 Hz			
• 2 rated value	60 Hz			
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 full-scale value 		0.85 1.1				
operating range fact	or control supply vo					
• initial value		0.85				
 full-scale value 		1.1				
inrush current peak						
• at 240 V		24 A	ι			
e at 240 V	irrent peak	0.5 (ns			
Certificates/ approvals	\$					
General Product Ap	proval				EMC	
SP CM		<u>Confirmation</u>		EHC	RCM	
For use in hazardou	s locations	Functional Safety/Safety of Machinery	Declaration of Con	formity	Test Certificates	
IECEx	K ATEX	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	
Marine / Shipping			other			
		DNV-GL	<u>Confirmation</u>	Profibus		
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)						
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7320-1AU00-0						
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7320-1AU00-0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3UF7320-1AU00-0						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7320-1AU00-0⟨=en						
Test report No. A0258, protective separation https://support.industry.siemens.com/cs/ww/en/view/109748152						







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