

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Monitoring Relay

with type designation(s)
SIMOCODE pro 3UF7

Issued to

Siemens AG GWA
Amberg, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-12-27**.

Issued at **Hamburg** on **2016-12-28**

DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

for **DNV GL**

.....
Duy Nam Le
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

SIMOCODE 3UF7 Motor Management and Control Devices for low-voltage motors with constant speeds	
Ratings main circuit	
Rated insulation voltage U_i	690V; 1000V ¹
Rated operational voltage U_e	690V
Rated impulse withstand voltage U_{imp}	6kV; 8kV ¹
Rated frequency	50/60Hz
Current setting I_e	0,3A up to 630A
Inverse-time delayed electronic overload protection	CLASS 5 to 40
Ratings Basic- and Extension Moduls	
Rated insulation voltage U_i	300V
Rated impulse withstand voltage U_{imp}	4kV
Rated control supply voltage U_s	110 ... 240V AC/DC; 50/60Hz; 24V DC

Basic units 3UF70	
3UF7000	SIMOCODE pro PROFIBUS
3UF7020	SIMOCODE pro S
3UF7010	SIMOCODE pro V
3UF7011	SIMOCODE pro V PROFINET
3UF7012	SIMOCODE pro V Modbus RTU
3UF7013	SIMOCODE pro V EtherNet / IP

Current measuring modules or current/voltage measuring modules		
	Current setting range I I_e	Current setting range II I_e ²
3UF71.0	0,3 ... 3A	0,3 ... 4A
3UF71.1	2,4 ... 25A	3,0 ... 40A
3UF71.2	10 ... 100A	10 ... 115A
3UF71.3	20 ... 200A	20 ... 200A
3UF71.4	63 ... 630A	63 ... 630A

Modules, Operator panels	
3UF7150	Decoupling modules
3UF7200	Operator panel
3UF7210	Operator panel with display
3UF7300	Digital modules, Relay output: Monostable
3UF7310	Digital modules, Relay output: Bistable
3UF7320	DM-F Local fail-safe digital modules
3UF7330	DM-F PROFIsafe fail-safe digital modules
3UF7400	Analog Modules
3UF7510	Ground-fault modules
3UF7600	Multifunction modules
3UF7700	Temperature modules

Further ratings acc. manufacturer documentation.

¹ 3UF71.3 and 3UF71.4

² With pump dry-run protection

Job Id:
Certificate No: **TAE00001KA**

Accessories	
3UF793...	Connection cable
3UF794...	PC / PG, USB adapter cables
3UF7900...	Memory module
3UF7950...	Interface covers
3UF7960...	Connection Terminal for Profibus
3UF7910...	Addressing plug
3UF7920...	Door adapter
3RP1903...	Push-in lugs

Ratings and mounting locations according manufacturer documentation.

Application/Limitation

Location Classes:

Temperature: B, Humidity: B, Vibration: A, Enclosure: IP20, Operator panel and Door adapter IP54
EMC: A

For installation inside switchboards/ enclosures onboard ships and offshore units.
With Uimp=6kV; Overvoltage category II applies for applications in IT systems > 600 V.

Correct configuration and set up for each delivery to be tested during commissioning after installation.
Installation to be in accordance with the manufacturer's instructions.

Type Approval documentation

Tests carried out

IEC 60947-4-1:2005, IEC 60947-5-1:2003, IEC 60947-8:2006, cold, dry heat, damp heat, vibration, flame retardancy, EMC

Marking of product

Manufacturers label containing data and manufacturers type number.

Name and place of manufacturer

Siemens AG, GWA
Werner-von-Siemens-Str. 48
92220 Amberg
Germany

Siemens s.r.o., odštěpný závod
Nízkonapěťová spínací technika
Volanovská 516
541 01 Trutnov
Czech Republic



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Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable).
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out).
- Review of type approval documentation.
- Review of possible change in design, materials and performance.
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at least every second year.

END OF CERTIFICATE