DNV·GL

Certificate No:
TAE00001E0

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fused Switch Disconnetor

with type designation(s)
3NP1…

Issued to
Siemens AG Low Voltage
REGENSBURG, Germany

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

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

This Certificate is valid until **2021-09-20**.

Issued at **Hamburg** on **2016-09-21**

for **DNV GL**

DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

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.

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Job Id: **262.1-010500-5**
Certificate No: **TAE00001E0**

Product description

Fuse Switch Disconnectors up to 630A 3NP1…					
Ratings					
Rated operational voltage U_e		690VAC			
		440VDC[1] / 220/240VDC[2]			
Rated insulation voltage U_i		1000V			
Rated impulse withstand voltage U_{imp}		8kV			
Rated current I_e (50°C)		63 – 630A			
Number of poles		3			
Rated frequency		50/60Hz			
Design		moulded case			
Method of installation		fixed, plug in			
Degree of protection		IP40			
Type	3NP1123…	3NP1133…	3NP1143…	3NP1153…	3NP1163…
Rated uninterrupted current I_u	160A	160A	250A	400A	630A
For fuse links acc. to IEC 60269-2	000	00 and 000	1 and 0	2 and 1	2 and 3
Aux. Contacts					
Rated insulation voltage U_i		400V			
Rated impulse withstand voltage U_{imp}		4kV			
Rated current I_e / AC-15		10A/ 400V			
Rated current I_e / DC-13		3A / 24V, 1,5A / 48V, 0,7A / 110V, 0,3A/ 230V			
Accessory: Auxiliary contacts, Mechanic / Electronic Fuse Monitoring					
Further ratings according manufacturer documentation [1] 3 conducting parts series-connected [2] 2 conducting parts series-connected					

Application/Limitation

Location Classes:
Temperature: B, Humidity: B, Vibration: A, Enclosure: IP40, EMC: A

Type Approval documentation

Tests carried out

IEC 60947-1:2007-06, IEC 60947-3:2008-08, cold, dry heat, damp heat, vibration, flame retardancy, EMC

Marking of product

Siemens - type designation - current - power rating

Name and place of manufacturer

OEZ s.r.o
Hradecká 387
561 69 Králíky
Czech Republic

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