



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 18/20004 issued on 17.01.2018 which is hereby cancelled.

This certificate is issued to:

PRODUCER Elsteel Denmark A/S
Møllevvej 9 C
2990 Nivå
Denmark

DESCRIPTION Low voltage modular switchgear and control gear assembly and stainless steel boxes

TYPE Elsteel Techno Module including busbar system
Wall mounted stainless steel boxes IP 66

Reference	Drawing Number AISI 316	Dimension (WxHxD [mm])
SBOX2.2-150	64000	200 x 200 x 150
SBOX2.3-150	64005	200 x 300 x 150
SBOX2,5.3-150	64010	250 x 300 x 150
SBOX3.3-150	64015	300 x 300 x 150
SBOX3.3-200	64020	300 x 300 x 200
SBOX3.4-150	64025	300 x 400 x 150
SBOX3.4-200	64030	300 x 400 x 200
SBOX4.3-150	64045	400 x 300 x 150
SBOX4.3-200	64050	400 x 300 x 200
SBOX4.4-150	64055	400 x 400 x 150

Certificate No. 18/20004 (E1)

Issue Date 23 August 2018

Expiry Date 17 April 2022

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Jörn Brüggemann
Hamburg Technical Support Office
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TYPE (continued)

Reference	Drawing Number AISI 316	Dimension (WxHxD [mm])
SBOX4.4-200	64060	400 x 400 x 200
SBOX4.5-150	64070	400 x 500 x 150
SBOX4.5-200	64075	400 x 500 x 200
SBOX4.5-250	64080	400 x 500 x 250
SBOX4.6-200	64085	400 x 600 x 200
SBOX4.6-250	64090	400 x 600 x 250
SBOX4.7-200	64100	400 x 700 x 200
SBOX5.5-200	64155	500 x 500 x 200
SBOX5.5-250	64156	500 x 500 x 250
SBOX5.6-200	64160	500 x 600 x 200
SBOX5.6-250	64161	500 x 600 x 250
SBOX5.7-200	64165	500 x 700 x 200
SBOX5.7-250	64170	500 x 700 x 250
SBOX6.4-200	64205	600 x 400 x 200
SBOX6.4-300	64210	600 x 400 x 300
SBOX6.5-200	64215	600 x 500 x 200
SBOX6.6-200	64220	600 x 600 x 200
SBOX6.6-300	64230	600 x 600 x 300
SBOX6.7-200	64235	600 x 700 x 200
SBOX6.8-200	64245	600 x 800 x 200
SBOX6.8-250	64250	600 x 800 x 250
SBOX6.8-300	64255	600 x 800 x 300
SBOX6.10-200	64260	600 x 1000 x 200
SBOX6.12-200	64275	600 x 1200 x 200
SBOX8.8-200	64350	800 x 800 x 200
SBOX8.8-300	64355	800 x 800 x 300
SBOX8.10-200	64360	800 x 1000 x 200

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TYPE (continued)

Reference	Drawing Number AISI 316	Dimension (WxHxD [mm])
SBOX8.10-250	64365	800 x 1000 x 250
SBOX8.10-300	64370	800 x 1000 x 300
SBOX8.12-200	64375	800 x 1200 x 200
SBOX8.12-250	64380	800 x 1200 x 250
SBOX8.12-300	64385	800 x 1200 x 300
SBOX10.10-200	64450	1000 x 1000 x 200
SBOX10.10-300	64455	1000 x 1000 x 300
SBOX10.12-300	64460	1000 x 1200 x 300

APPLICATION

Marine, Offshore and Industry applications

STANDARD

Manufacturer's Standard
IEC61439-1:2011
IEC61439-2:2011
IEC62208:2011

RATINGS

Elsteel Techno Module including busbar system:

Rated insulation voltage (Ui): up to 1000V
Rated operational voltage (Ue): up to 690V
Rated frequency (f): 50 to 60 Hz
Ratings of horizontal main busbars ①
Rated Current: up to 7100A
Rated peak withstand current (Ipk): up to 220kA
Rated short-time withstand current (Icw): up to 100kA, 1 s
Enclosure: IP54
Overvoltage category: IV
Pollution degree: 3
Form: 4b

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RATINGS (continued)

① detailed information regarding different bus-bar configurations/ cross sections refer manufacturer catalogue and relevant rating sheet. The data for rated current and rated short circuit current may be depending of the IP degree see applicable manufacturer catalogue/ datasheet.

LIMITATIONS

The rated current of the assembly is based upon a mean/maximum ambient temperature of 35/40°C. Derating for ambient temperature 45°C to apply.

OTHER CONDITIONS

The type approval covers the system design of enclosures, busbar components and withdrawable units according to manufacturer assembly instruction. Methodology of cooling of the busbar systems to be selected according to manufacturer specification. Protection Degree up to IP 54 for Form 4b. The type approval does not cover individual devices and self-contained components, such as motor starters, fuses, switches, circuit breakers. Verification for the application assembly as required by IEC 61439-1 is subject of LR Plan Appraisal to provide by the assembly manufacturer. Documents and drawings for the actual application to be provided according to relevant LR Rules and Regulations.

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PLACE OF PRODUCTION

Elsteel (Private) Limited ⁽¹⁾
Spur Road 2, Phase 1, EPZ,
11420 Katunayake
Sri Lanka

Elsteel Poland Sp.z.o.o ⁽²⁾
ul. Slowackiego 5
46-040 Ozimek
Poland

Elsteel Modular Products India (Pvt) Ltd. ⁽³⁾
Plot 03, Honda Industrial Estate, Honda Satterri
403530 Goa
India

⁽¹⁾For low voltage modular switchgear and control gear assembly and stainless steel boxes

⁽²⁾For low voltage modular switchgear and control gear assembly and stainless steel boxes

⁽³⁾For stainless steel boxes only

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 37263-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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