



NIPPON KAIJI KYOKAI

COPY

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA18352M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Manufacturer: **ABB AB, Control Products**
Place of Manufacturing: **MOTORGRÄND 20, 72161 Västerås, SWEDEN**
Product description: **Softstarter**
Model: **PSTX-family, PSE-family**

Approval No.: **16A005**
Valid until: **21 February 2021**

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 14 August 2018.



T. Shimada
General Manager
Machinery Department

Note: 1. The certificate has been issued due to addition of new models.

2. The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Particulars: Power supply: Main circuit 208-600V AC (PSE), 208-690V AC (PSTX)
Control circuit 100-250V AC/DC 50/60Hz, Auxiliary circuits: 250V AC / 24V DC

2. Components and reference drawings:

Type PSE

Soft starter type PSE	Rated insulation voltage (Ui)	Rated frequency	Rated thermal current (Ith)	Rated operational current
PSE18-600-70	600	50/60	18	18
PSE25-600-70			25	25
PSE30-600-70			30	30
PSE37-600-70			37	37
PSE45-600-70			45	45
PSE60-600-70			60	60
PSE72-600-70			72	72
PSE85-600-70			85	85
PSE105-600-70			106	106
PSE142-600-70			143	143
PSE170-600-70			171	171
PSE210-600-70			210	210
PSE250-600-70			250	250
PSE300-600-70			300	300
PSE370-600-70			370	370
PSE210-600-70-1			210	210
PSE250-600-70-1			250	250
PSE300-600-70-1			300	300
PSE370-600-70-1			370	370

- To be continued -

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Attached sheet -2/4 to the Certificate No. TA18352M

Type PSTX

Soft starter type PSTX	Rated insulation voltage (Ui)	Rated frequency	Rated thermal current (Ith)	Rated operational current
PSTX30-600 or 690-70	600/690	50/60	30	30
PSTX37-600 or 690-70			37	37
PSTX45-600 or 690-70			45	45
PSTX60-600 or 690-70			60	60
PSTX72-600 or 690-70			72	72
PSTX85-600 or 690-70			85	85
PSTX105-600 or 690-70			106	106
PSTX142-600 or 690-70			143	143
PSTX170-600 or 690-70			171	171
PSTX210-600 or 690-70			210	210
PSTX250-600 or 690-70			250	250
PSTX300-600 or 690-70			300	300
PSTX370-600 or 690-70			370	370
PSTX470-600 or 690-70			470	470
PSTX570-600 or 690-70			570	570
PSTX720-600 or 690-70			720	720
PSTX840-600 or 690-70			840	840
PSTX1050-600 or 690-70	1050	1050		
PSTX1250-600 or 690-70	1250	1250		

- To be continued -

3. Documentation and Test Reports:

Documentation:

1SFB536247G1005, 1SFB536247G1004, 1SFB536247G1001, 1SFB536247G1002,
1SFB536247G1003, 1SFB536247G1007, 1SFB536247G1008, 1SFB536247G1011,
1SFB536247G1012, 1SFB536247G1013

Test Reports:

Test report No. 1316240-1, Ed. 1

Report No. 1407161VAS-003

Test report No. 1316240-2, Ed. 1

Report No. 1407161VAS-002

Test Report No. 1316240-3, Ed. 1

Report No. 1407161VAS-001

Test report No. 1012981-1

Report No. 1009638-1

Report no 1401996STO-001

Report no 1401990STO-001

Test report No. 1401990, Ed.1

2CMT001197D0120 PSTX-PSE Production Test Specification

Document No 1SFB536014G1004

Test report No. 1009638-2

Test report No. 1009638-3

Report No. 1012981-2

Report no 1415279STO-001

Report no 1512822STO-001

Report no 1512822STO-002

Report no 4786980553

Report no 15160310STO-001

Report no 15160310STO-002

Test report No. 1710867STO-001, Ed. 1

Report No. 1721558STO-001

Report No. 1808986VAS-001

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g)		X
Inclination test		X
Cold test (Temperature 5°C × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

The product is not allowed to be installed in the bridge and on open decks

The End -