

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Motor Starter

with type designation(s)
PSTX

Issued to
ABB AB
Västerås, Västmanlands Län, Sweden

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

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Rated voltage (V) 690 V AC
Rated current (A) 30 - 1250
Frequency (Hz) 50 - 60

Issued at **Høvik** on **2019-09-04**

for **DNV GL**

This Certificate is valid until **2024-06-30**.

DNV GL local station: **Sweden CMC**

Approval Engineer: **Nicolay Horn**

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Trond Sjøvåg
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.



Job Id: **262.1-018459-4**
 Certificate No: **TAE0000087**
 Revision No: **2**

Name and place of manufacturer

ABB AB, Control Products Västerås, Sweden	ABB Xinhui Low Voltage Switchgear Co. Ltd Xinhui, China
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Product description

Type	Rated operation voltage Ue (V)	Rated insulation voltage Ui (V)	Rated impulse voltage Uimp (kV)	Rated operation current Ie (A)*	Rated power at 400 V Pe (kW)*	Rated conditionals short-circuit current Iq (kA)
PSTX 30	220 - 690	690 V	8	9 - 30	15	80
PSTX 37				11.1 - 37	18.5	
PSTX 45				13.5 - 45	22	
PSTX 60				18 - 60	30	
PSTX 72				21.6 - 72	37	
PSTX 85				25.5 - 85	45	
PSTX 105				31.8 - 106	55	
PSTX 142				42.9 - 143	75	
PSTX 170				53.3 - 171	90	
PSTX 210				63 - 210	110	
PSTX 250				75 - 250	132	
PSTX 300				96 - 300	160	
PSTX 370				111 - 370	200	
PSTX 470				141 - 470	250	
PSTX 570				171 - 570	315	
PSTX 720				216 - 720	400	
PSTX 840				252 - 840	450	
PSTX 1050				315 - 1050	560	
PSTX 1250	375 - 1250	710				

* Normal starts, class 10

Application/Limitation

For installations inside switchboards / enclosures onboard ships and offshore units.

Type Approval documentation

Technical info:

ABB Catalogue "Softstarters Type PSTX " doc. No. 1SFC132011C0201, dated April 2015

Test Reports:

Semco Statement of Test Result, dated 2015-04-09

Intertek Test Report no. 1507260STO-001 issued 2015-04-24

Intertek Test Report nos. 1511893VAS-001 & 1511895VAS-001 issued 2015-06-30

Intertek Test Report no. 1415279STO-001, Ed 1 issued 2015-02-16

Intertek Test Report nos. 1512822STO-001, Ed 1 & 1512822STO-002, Ed 1 issued 2015-09-03

Intertek Test Report nos. 1516031STO-001 & 1516031STO-002 1 issued 2015-10-13

UL Test Report No. 4786980553 issued 2015-08-20

Intertek Test Report nos. 1407161VAS-001, 1407161VAS -002 & 1407161VAS -003 issued 2014-06-04

Intertek Test Report nos 1316240-1, 1316240-2 & 1316240-3 issued 2014-03-18

Intertek Test Report no. 1401996STO-001 issued 2014-10-06

Semco Statement of Test Result, dated 2015-04-09

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Tests carried out

Type tests in accordance with IEC 60947-4-2. EMC Tests, Inclination test, Vibration test, Insulation resistance test, Damp heat test, Dry heat test, Low temperature test and high voltage test

Marking of product

ABB – Type designation – Rated voltage – Rated current - Breaking capacity.

Periodical assessment

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

The main elements of the assessment are are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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 2 and 3.5 year and at renewal.

END OF CERTIFICATE