Certificate No:
TAE00004EW

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Motor Starter

with type designation(s)
ATS480

Issued to
Schneider Toshiba Inverter Europe S.A.S.
Pacy Sur Eure, Eure, **France**

is found to comply with
DNV 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.

Rated voltage (V)	**208 - 690**
Rated current (A)	**17 - 1200**
Frequency (Hz)	**50 - 60**

Issued at **Høvik** on **2022-02-04**
This Certificate is valid until **2027-02-03**.
DNV local station: **France CMC**

Approval Engineer: **Nicolay Horn**

for **DNV**

Trond Sjåvåg
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Manufactured by

Company Name	Address
Wuxi Proface Co., Ltd.	No.20 Hanjiang Road, Wuxi City, Jiangsu Province, Chian, 214028 - P.R.China
PT SCHNEIDER ELECTRIC MFG BATAM (SEMB)	Batam Industrial Park BLK 4 Mukakuning, Batam Riau, 29433, INDONESIA

Product description

AC Semiconductor Motor Starters for asynchronous motors.

Type designation	Mains supply	Rated Operational Current (1)	3-phase Starter rating (AC-53a)			
			Connected in line			
	(V)	(A)	(kW) (1)			
			230V	400V	500V	690V
ATS480D17Y	208 - 690	17	4	7,5	9	15
ATS480D22Y	208 - 690	22	5,5	11	11	18,5
ATS480D32Y	208 - 690	32	7,5	15	18,5	22
ATS480D38Y	208 - 690	38	9	18,5	22	30
ATS480D47Y	208 - 690	47	11	22	30	37
ATS480D62Y	208 - 690	62	15	30	37	45
ATS480D75Y	208 - 690	75	18,5	37	45	55
ATS480D88Y	208 - 690	88	22	45	55	75
ATS480C11Y	208 - 690	110	30	55	75	90
ATS480C14Y	208 - 690	140	37	75	90	110
ATS480C17Y	208 - 690	170	45	90	110	160
ATS480C21Y	208 - 690	210	55	110	132	200
ATS480C25Y	208 - 690	250	75	132	160	250
ATS480C32Y	208 - 690	320	90	160	220	315
ATS480C41Y	208 - 690	410	110	220	250	400
ATS480C48Y	208 - 690	480	132	250	315	500
ATS480C59Y	208 - 690	590	160	315	400	560
ATS480C66Y	208 - 690	660	--	355	--	630
ATS480C79Y	208 - 690	790	220	400	500	710
ATS480M10Y	208 - 690	1000	250	500	630	900
ATS480M12Y	208 - 690	1200	355	630	800	--

1) Values applicable for 40 °C. To be modified for ships application at 45 °C. See under "Application / limitation".

Application/Limitation

Supply voltage range	208 - 690 V, 17-1200A, 50/60 Hz
Voltage variation:	- 15 % + 10%
Frequency variation:	± 20 %
Temperature range in operation:	0 - 40 °C (40 - 60 °C when derated)
DNV Temperature class:	B
DNV Vibration class:	A
DNV Humidity class:	A
EMC:	EMC Directive To be used on DNV class A locations. For emission: EMC class A for all starters, EMC Class B above 170 A starters if bypassed by starting ramp. (Class A and B in accordance with EMC Directive definitions)

The ATS480 must be regarded as a component. The actual installation to be designed according to Schneider Electric Users Manual and according to the applicable DNV Rules for the actual application. Applicable for certification (product certificate) as part of a switchboard.

To be installed in an enclosure with an IP degree in accordance with DNV Rules w.r.t. location.

For marine applications size of soft starter to be chosen according to chapter "Technical Specification" and derated with respect to an ambient temperature of 45°C and drive mode in accordance with chapter "Environment" in “ATS 480 Users Manual” (2,0% per deg. C for ambient above 45 °C).

To be installed with marine kits (vibration dampers). See document “Recommendations for use of ATS480 Series in Navy Application” for details

These products may also be connected INSIDE DELTA. See manufacturer’s documentation for applicable re-rating.

Type Approval documentation

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Tests carried out

Visual inspection, Performance, Power supply failure, Power supply variations, Voltage/frequency variation, Vibration, Dry heat, Damp heat, Insulation resistance, High voltage.

EMC: The following tests are in accordance with the EMC directive / IEC 60947-4-1: Electrical fast transient (Burst), electrical slow transient (Surge), RF-common mode Voltage, radiated RF-electromagnetic fields, electric discharge (ESD), radiated and conducted emission.

Marking of product

Altistart 480 – Type designation – Factory code (HL= Batam / 88=Wuxi) – Power – Voltage

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.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE