TYPE APPROVAL CERTIFICATE

Certificate no.:
TAE00004XU
Revision No:
1

This is to certify:

that the Motor Starter

with type designation(s)
ATS490

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:

Product(s) approved by this certificate is/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 **2025-08-18**

This Certificate is valid until **2029-10-17**.
DNV local unit: **France CMC**

Approval Engineer: **Qiang William Guo**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signature

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.

Place of Manufacture

Manufacture name	P.T. Schneider Electric Manufacturing Batam (SEMB)
Manufacture address	Batamindo Industrial Park, Jl. Beringin Block 1, 4 & 208, Batam Island, 29433, Indonesia

Manufacture name	Wuxi Pro-Face Co Ltd (WPF)
Manufacture address	Industrial Development Zone, No 20 Hanjiang Road, National Hi-Tech, Wuxi Jiangsu, 214028, China

Product description

AC Semiconductor Motor Starters for asynchronous motors
Type and variants:

Type reference	Frame Size	Current rating(A)
ATS490D17Y	1	17
ATS490D22Y	1	22
ATS490D32Y	1	32
ATS490D38Y	1	38
ATS490D47Y	1	47
ATS490D62Y	1	62
ATS490D75Y	1	75
ATS490D88Y	1	88
ATS490C11Y	1	110
ATS490C14Y	2	140
ATS490C17Y	2	170
ATS490C21Y	3	210
ATS490C25Y	3	250
ATS490C32Y	3	320
ATS490C41Y	3	410
ATS490C48Y	4	480
ATS490C59Y	4	590
ATS490C66Y	4	660
ATS490C79Y	5	790
ATS490M10Y	5	1000
ATS490M12Y	5	1200

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 - 690V, 17-1200A, 50/60Hz
Voltage variation	- 15 % + 10%
Frequency variation	± 20 %
Temperature range in operation	0 - 40 °C (40 - 60 °C when derated)

Location of class (According to DNV-CG-0339)

Temperature class	B
Vibration class	A (To be installed with vibration dampers, see the limitations)
Humidity class	A
Enclosure class	IP00
EMC class	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 ATS490 must be regarded as a component. The actual installation to be designed according to Schneider Electric User's 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.

Motor starters larger than 100kW serving important or essential equipment are subjected for additional case by case-based product certification. Documents for the actual application are to be submitted for approval in each case in accordance with DNV Rules Pt.4, Ch.8, Sec.1, including reference to this type approval certificate and confirmation that the correct marine options and power ratings are used.

For marine applications size of soft starter to be chosen according to chapter "Technical Specification" and derated with respect to an ambient temperature of 40°C and drive mode in accordance with chapter "Environment" in “ATS 490 User’s Manual” (1,0% per deg. C for ambient above 40 °C).

Below types shall be installed with vibration dampers:

ATS490C14Y and ATS490C17Y	reference MP8-125 manufactured by Socitec
ATS490C21Y to ATS490C41Y	reference MP11-175 manufactured by Socitec
ATS490C48Y to ATS490C66Y	reference MP11-175 manufactured by Socitec
ATS490C79Y to ATS490M12Y	reference MP15-375 manufactured by Socitec

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

Type Approval documentation

Documentation No.	Issued date
ATS490_QTR_24368	2024-07-12
ATS490_QTR_24152	2024-04-05
ATS490_QTR_23399	2023-12-19
ATS490_QTR_24312	2024-06-28
ATS490_QTR_23480	2024-01-11
ATS490_QTR_23171	2023-08-24
ATS490_QTR_23279	2024-01-17
ATS490_QTR_23380	2023-01-12
ATS490_QTR_24123	2024-03-19
ATS490_QTR_23460	2024-01-05
ATS490_QTR_23294	2023-09-13
ATS490_QTR_23292	2023-09-12
ATS490_QTR_24131	2024-03-19
ATS490_QTR_23319	2023-11-09
ATS490_QTR_24318	2024-06-19
ATS490_QTR_24025_02	2024-03-19
ATS490_QTR_23378	2023-12-20
LE 24 00 66	2024-07-08
ATS490_QTR_23487	2023-09-20
ATS490_QTR_24241	2024-06-12
ATS490_QTR_24320	2024-06-19
5.2.02_C4909 ATS490C66	2024-04-15
ATS490_QTR_24325	2024-07-17
ATS490_QTR_24313	2024-06-28
ATS490_QTR_24323	2024-06-28
LE 24 00 64	2024-07-08
ATS490_QTR_23307	2023-10-09
ATS490_QTR_24228	2024-06-11
ATS490_CERTIF_23251	2023-10-18
ATS490_QTR_23253	2023-12-19
ATS490_QTR_23357	2023-12-07

ATS490_QTR_24171	2024-05-13
ATS490_QTR_24369	2024-07-12
ATS490_QTR_24162	2024-04-03
ATS490_QTR_24203	2024-04-25
ATS490_CERTIF_23189	2023-10-10
ATS490_QTR_23407	2023-11-24
ATS490_QTR_24163	2024-04-03
ATS490_QTR_24092	2024-04-08
LM 24 00 30	2024-04-04
ATS490_QTR_24161	2024-04-04
ATS490_QTR_23160	2023-06-06
LE 23 00 65	2023-12-04
ATS490_QTR_24014	2024-03-11
ATS490_QTR_24228	2024-06-11
LM 23 00 45	2023-10-30
ATS490_QTR_23195	2023-08-25
ATS490_QTR_24241	2024-06-12
ATS490_QTR_24132	2024-03-20
LM 23 00 51	2023-12-04
LE 24 00 07	2024-02-06
ATS490_CERTIF_24189	2024-06-18
LE 24 00 28	2024-03-28
LE 24 00 30	2024-04-02
ATS490_QTR_23325	2023-10-11
ATS490_QTR_23383	2023-11-22
LE 23 00 66	2023-12-04
ATS490_QTR_23196	2023-08-02
ATS490_QTR_23425	2023-12-07
ATS490_QTR_24054	2024-04-02
ATS490_QTR_23267	2023-09-20
ATS490_QTR_23331	2023-12-12
ATS490 Technical descriptions	
ATS490_QTR_24152	2024-04-05
LE 24 00 04	2024-01-23
ATS490_QTR_24010	2024-02-07
LM 24 00 51	2024-06-14
ATS490_QTR_23369	2023-10-30
ATS490_QTR_23458	2023-12-14
ATS490_QTR_24016	2024-03-14
ATS490_QTR_23323	2023-10-11
ATS490 short Description	
ATS490_QTR_24054	2024-04-02
LE 24 00 35	2024-04-15
ATS490_QTR_24123	2024-03-19
ATS490_QTR_24313	2024-06-28
ATS490_QTR_24053	2024-02-27
ATS490_QTR_23427	2023-12-14
ATS490_QTR_23329	2023-10-09
ATS490_QTR_23429	2023-12-14
ATS490_QTR_23335	2023-10-11
ATS490_QTR_24172	2024-05-06

ATS490_QTR_23268	2023-09-20
ATS490_QTR_24013	2024-03-11
ATS490_QTR_23193	2023-08-02
ATS490_QTR_23172	2023-07-11
ATS490_QTR_24090	2024-04-08
ATS490_QTR_24089	2024-03-15
ATS490_QTR_24050	2024-02-22
LE 24 00 36	2024-04-17
LE 23 00 74	2023-12-18
ATS490_QTR_24131	2024-03-19
LE 24 00 05	2024-01-25
ATS490_QTR_23480	2024-01-11
ATS490_QTR_24123	2024-03-19
ATS490_QTR_24313	2024-06-28
ATS490_QTR_23363	2023-10-23
ATS490_QTR_24075	2024-03-22
ATS490_QTR_23293	2023-09-07
LM 23 00 46	2023-12-04
ATS490_QTR_24244	2024-05-23
ATS490_QTR_23308	2023-10-23
ATS490_QTR_23309	2023-10-23
ATS490_QTR_24054	2024-03-21
ATS490_QTR_24319	2024-06-19
ATS490_QTR_23368	2023-10-30
ATS490_QTR_24052	2024-02-22
S OPTIMUM Project presentation_ Marine ie01	
ATS490_QTR_23408	2023-12-07
ATS490_QTR_23372	2023-11-22
ATS490_QTR_23426	2023-12-07
ATS490_QTR_24025_02	2024-03-19
ATS490_QTR_23362	2023-10-23
ATS490_QTR_24243	2024-05-23
ATS490_QTR_24170	2024-04-09
ATS490_QTR_23266	2023-09-21
ATS490_QTR_23333	2023-12-12
ATS490_QTR_23290	2023-09-08
ATS490_QTR_24074	2024-03-22
ATS490_QTR_23297	2023-10-02
ATS490_CERTIF_23405	2023-02-16
ATS490_QTR_24009	2024-01-25
ATS490_QTR_24331	2024-06-19
LM 23 00 52	2023-12-04
ATS490_QTR_24211	2024-06-06
ATS490_QTR_24368	2024-07-12
ATS490_QTR_24318	2024-06-19
ATS490_QTR_24319	2024-06-19
ATS490_QTR_24320	2024-06-19
ATS490_QTR_24369	2024-06-19
ATS490_QTR_24323	2024-06-28
ATS490_QTR_24331	2024-07-17
ATS490_QTR_24325	2024-07-17

LE24 00 64	2024-07-08
LE 24 00 66	2024-07-08
ATS490_QTR_24311	2024-10-09
ATS490_QTR_24211	2024-06-06
ATS490_QTR_24203	2024-04-25
LM 24 00 51	2024-06-14
ATS490_QTR_24241	2024-06-12
ATS490_QTR_24243	2024-05-23
ATS490_QTR_24244	2024-05-23
ATS490_QTR_24228	2024-06-11
ATS490_QTR_24369	2024-07-12
LE240092	2024-09-24
ATS490_QTR_24351	2024-09-23
ATS490_QTR_24350	2024-09-23
ATS490_QTR_24470	2024-09-26
LE240093	2024-09-24
ATS490_QTR_24468	2024-09-23
ATS490_QTR_24394	2024-08-27
ATS490_QTR_24318	2024-09-24
ATS490_QTR_24461	2024-09-23
ATS490_QTR_24424	2024-09-04
ATS490_QTR_24436	2024-09-05
LM 24 00 78	2024-09-24
ATS490_QTR_24452	2024-09-23
ATS490_QTR_24312	2024-06-28
ATS490_QTR_24313	2024-06-25
ATS490_QTR_24443	2024-09-19
C4909-V1	2024-06-19

Tests carried out

Visual inspection, Performance, Power supply failure, Power supply variations, Voltage/frequency variation, Vibration, Dry heat, Damp heat, Insulation resistance, High voltage in accordance with DNV-CG-0339 Aug. 2021

EMC: The following tests are in accordance with the EMC directive / IEC 60947-4-2 edition Jun 2020: 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 490 – Type designation – Factory code (XX) – 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