



**TYPE APPROVAL CERTIFICATE**  
No. **ELE033120XG/002**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>FREQUENCY CONVERTERS</b>
<i>Type</i>	<b>ATV ALTIVAR PROCESS MODULES</b>
<i>Applicant</i>	<b>SCHNEIDER TOSHIBA INVERTER EUROPE RUE ANDRÉ BLANCHET 27120 PACY SUR EURE FRANCE</b>
<i>Manufacturer</i>	<b>SCHNEIDER ELECTRIC INDUSTRIES SA</b>
<i>Place of manufacture</i>	<b>2, rue du Pont Vert ZAC - Le Village 27109 - Le Vaudreuil Le Vaudreuil FRANCE</b>
<i>Reference standards</i>	<b>RINA Rules Pt.C, Ch.3, Sec. 6 and IEC 61800-3; IEC 61800-5-1</b>

*Issued in* **HAMBURG** on **June 15, 2023**. *This Certificate is valid until* **May 31, 2025**

  
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**RINA Services S.p.A.**  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure

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**ATV ALTIVAR PROCESS MODULES**

**Product description :**

The ATV APM series is a modular, scalable single drives assembly only for cabinet integration. It comprises of standard diode-front-end (DFE) variable speed drive, active-front-end (AFE) low-harmonic variable speed drives and optional a braking unit.

**Rating:**

Power supply: 400 - 690 V AC  
 Motor power: 55 kW to 1200 kW  
 Output frequency: 0 ... 500/599 Hz  
 Temperature range in operation: -10°C to +40/50°C  
 Degree of protection: IP00

**Technical Data:**

<b>DFE-Modules (Standard) 400-480V</b>			
Drive Modules type designation 3)	ATV6A0CxxQ4 ATV9A0CxxQ4	ATV6A0CxxR4 ATV9A0CxxR4	ATV6A0CxxT4 ATV9A0CxxT4
Nominal Voltage	400V	440V	480V
Input current	167...1335 A	155...1216 A	145...1146 A
Max. continuous output current 1)	173...1420 A	173...1420 A	173...1420 A
Nominal Output Power 1)	90...800 kW	90...800 kW	110...820 kW
<b>DFE-Modules (Standard) 500-690V</b>			
Drive Modules type designation 3)	ATV6A0CxxN6 ATV6A0MxxN6 ATV9A0CxxN6 ATV9A0MxxN6	ATV6A0CxxQ6 ATV6A0MxxQ6 ATV9A0CxxQ6 ATV9A0MxxQ6	ATV6A0CxxS6 ATV6A0MxxT6 ATV9A0CxxS6 ATV9A0MxxT6
Nominal Voltage 2)	500 V	690 V	600 V
Input current	83...1070 A	100...1161 A	92...994 A
Max. continuous output current 1)	105...1230 A	105...1230 A	105...1230 A
Nominal Output Power 1)	55...800 kW	90...1200 kW	90...890kW

<b>AFE-Modules (Low Harmonics/ Power Regeneration) 400-480V</b>			
Drive Modules type designation 3)	ATV6B0CxxQ4 ATV9B0CxxQ4	ATV6B0CxxR4 ATV9B0CxxR4	ATV6B0CxxT4 ATV9B0CxxT4
Nominal Voltage	400V	440V	480V
Input current	144...1227 A	132...1115	125...1049
Max. continuous output current 1)	173...1420 A	173...1420 A	173...1420 A
Nominal Output Power 1)	90...800 kW	90...800 kW	93...820 kW

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<b>AFE-Modules (Low Harmonics/ Power Regeneration) 500-690V</b>			
Drive Modules type designation 3)	ATV6B0CxxN6 ATV6B0MxxN6 ATV9B0CxxN6 ATV9B0MxxN6	ATV6B0CxxQ6 ATV6B0MxxQ6 ATV9B0CxxQ6 ATV9B0MxxQ6	ATV6B0xxxQ6 ATV9B0xxxQ6
Nominal Voltage 2)	500 V	690 V	600 V
Input current	72...991 A	85...1078 A	82...937 A
Max. continuous output current 1)	105...1230 A	105...1230 A	105...1230 A
Nominal Output Power 1)	55...800 kW	90...1200 kW	74,5...895 kW

<b>Braking Unit</b>	
<b>Control voltage supply to braking units 24Vdc SELV 380 – 480V</b>	
Drive Modules type designation	MODBUOC16x4APM; MODBUOC31x4APM; MODBUOC50x4APM; MODBUOC63x4APM; MODBUO C80x4APM
Braking voltage	780 Vdc
Max DC link voltage	820 Vdc
Max. continuous braking current 1)	69...198 A
Max. continuous braking power 1)	75...355 kW
<b>Braking Unit</b>	
<b>Control voltage supply to braking units 24Vdc SELV 500 – 690V</b>	
Drive Modules type designation	MODBUOC20x6APM; MODBUOC40x6APM; MODBUOC63x6APM; MODBUOC80x6APM; MODBUOM10x6APM; MODBUOM12x6APM
Braking voltage	1130 Vdc
Max DC link voltage	1250 Vdc
Max. continuous braking current 1)	58...172 A
Max. continuous braking power 1)	85...550 kW

1) Derating at an ambient temperature greater as +40° C, see manufacturer's technical data sheet.

2) Input voltage variation for ATVxxxxxQ6 at 690 V AC  $\pm$  10%.

3) Heavy Duty and Normal Duty.

**Remarks:**

- Each particular application and installation (100 kW or greater) is to be specifically approved.
- Converters with conducted and radiated emission above the RINA required limits are only to be installed in "special power distribution zone" and "general power distribution zone", in accordance with IEC 60533 provided measures are taken to attenuate these effects on the distribution system, so the safe operation is assured.
- The air channel of the power modules is designed for use in pollution degree 3 environment. Cabinet integration in IP54 is required.

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**Additional Places of Production :**

Schneider (Wuxi) Drives Co Ltd  
No.20, Hajiang Road,  
National Hi-Tech Industrial Development Zone  
Wuxi Jiangsu 214028, CN

**Documents:**

APM Braking Unit Integration manual EN, MFR77831,02;  
APM LH REGEN Integration Manual EN, PHA2452602,03;  
APM Std Integration Manual EN, PHA2451702,05;

**HAMBURG June 15, 2023**

*Giuseppe Russo*