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TYPE APPROVAL CERTIFICATE

Certificate No. : SGP29028-EL002 **Initial Approval** : 30th January, 2015.
Product : Frequency Converter
Manufacturer : PT Schneider Electric MFG Batam
Batam Industrial Park BLK 1, 4 & 208 MukaKuning - Batam Riau 29433,
Indonesia

Product Description : Variable speed drives for synchronous & asynchronous motors
Type : Altivar 61 (ATV61H series)
- Supply voltage / Motor Power :
Single-phase 200 - 240V 50~60Hz / 0.37 - 5.5 kW
Three-phase 200 - 240V 50~60Hz / 0.75 - 90 kW
Three-phase 380 - 480V 50~60Hz / 0.75 - 630 kW
Three-phase 500 - 690V 50~60Hz / 2.2 - 800 kW
- Output frequency : 0 - 1000 Hz up to 37kW ranges,
0 - 500 Hz for the others

" See Appendix 1 "

Approval Condition : " See Appendix 1 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 6, Ch. 1, Sec.12 of the Rules for Classification, Steel Ships.

This Certificate is valid until 29th January, 2020.
Issued at Busan, Korea on 30th January, 2015.



KOREAN REGISTER OF SHIPPING

[Signature]
General Manager of
Class Equipment Team

Note : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.
2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

Appendix 1

Product Description and/or Approval Condition

Certificate No : SGP29028-EL002

Date of Issue : 30th January, 2015.

Product Description : Altivar 61 (ATV61H series)

- 1) Single-phase supply voltage : 200 - 240V 50/60 Hz ;
 - Motor power indicated on plate : 0.37 - 5.5 kW
 - Max. line supply (input) : 6.9 - 47.3 A at 200V, 5.8 - 40.1 A at 240V
 - Drive (output) Max. available nominal current : 3 - 27.5 A
 - Type :
ATV61H075M3, ATV61HU15M3, ATV61HU22M3, ATV61HU30M3, ATV61HU40M3, ATV61HU55M3,
ATV61HU75M3
- 2) Three-phase supply voltage : 200 - 240V 50/60 Hz ;
 - Motor power indicated on plate : 0.75 - 90 kW
 - Max. line supply (input) : 6.1 - 336 A at 200V, 5.3 - 288 A at 240V
 - Drive (output) Max. available nominal current : 4.8 - 359 A
 - Type :
ATV61H075M3, ATV61HU15M3, ATV61HU22M3, ATV61HU30M3, ATV61HU40M3, ATV61HU55M3,
ATV61HU75M3, ATV61HD11M3X, ATV61HD15M3X, ATV61HD18M3X, ATV61HD22M3X, ATV61HD30M3X,
ATV61HD37M3X, ATV61HD45M3X, ATV61HD55M3X, ATV61HD75M3X, ATV61HD90M3X
- 3) Three-phase supply voltage : 380 - 480V 50/60 Hz ;
 - Motor power indicated on plate : 0.75 - 630 kW
 - Max. line supply (input) : 3.7 - 1091 A at 380V, 3.0 - 964 A at 480V
 - Drive (output) Max. available nominal current : 2.3 - 1188 A at 380V,
2.1 - 1188 A at 480V
 - Type :
ATV61H075N4, ATV61HU15N4, ATV61HU22N4, ATV61HU30N4, ATV61HU40N4, ATV61HU55N4,
ATV61HU75N4, ATV61HD11N4, ATV61HD15N4, ATV61HD18N4, ATV61HD22N4, ATV61HD30N4,
ATV61HD37N4, ATV61HD45N4, ATV61HD55N4, ATV61HD75N4, ATV61HD90N4, ATV61HC11N4,
ATV61HC13N4, ATV61HC16N4, ATV61HC22N4, ATV61HC25N4, ATV61HC31N4, ATV61HC40N4,
ATV61HC50N4, ATV61HC63N4
- 4) Three-phase supply voltage : 500-690V 50/60 Hz ;
 - Motor power indicated on plate : 2.2 - 630 kW at 500V, 3.0 - 800 kW at 690V
 - Max. line supply (input) : 5.2 - 847 A at 500V, 5.2 - 775 A at 690V
 - Drive (output) Max. available nominal current : 4.5 - 900 A at 500V,
4.5 - 840 A at 690V
 - Type :
ATV61HU30Y, ATV61HU40Y, ATV61HU55Y, ATV61HU75Y, ATV61HD11Y, ATV61HD15Y, ATV61HD18Y,
ATV61HD22Y, ATV61HD30Y, ATV61HD37Y, ATV61HD45Y, ATV61HD55Y, ATV61HD75Y, ATV61HD90Y,
ATV61HC11Y, ATV61HC13Y, ATV61HC16Y, ATV61HC20Y, ATV61HC25Y, ATV61HC31Y, ATV61HC40Y,
ATV61HC50Y, ATV61HC63Y, ATV61HC80Y

Approval condition :

1. The product or packing is to be marked with manufacturer name and type designation on a suitable position.
2. Individual Product Certification is not required.
3. This approval is granted on the basis of the following test & documents.
 - Test : Visual inspection, Performance Test, Electrical Power supply failure Test, Vibration Test, Dry Heat Test, Damp Heat Test, Cold Test, Insulation, Resistance Test, High Voltage Test, EMC Immunity (61000-4-4), EMC Immunity (61000-4-5), EMC Immunity (61000-4-6), EMC Immunity (61000-4-3), EMC Immunity (61000-4-2), EMC Radiated Emission Test, EMC Conducted Emission, Short Circuit Test
 - Document : ATV61 Installation manual & Drawings

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TYPE APPROVAL CERTIFICATE

Certificate No. : SGP29028-EL003 **Initial Approval** : 30th January, 2015.
Product : Frequency Converter
Manufacturer : PT Schneider Electric MFG Batam
Batam Industrial Park BLK 1, 4 & 208 MukaKuning - Batam Riau 29433,
Indonesia

Product Description : Variable speed drives for synchronous & asynchronous motors
Type : Altivar 71 (ATV71H series)
- Supply voltage / Motor Power ;
Single-phase 200 - 240V 50~60Hz / 0.37 - 5.5 kW
Three-phase 200 - 240V 50~60Hz / 0.37 - 75 kW
Three-phase 380 - 480V 50~60Hz / 0.75 - 500 kW
Three-phase 500 - 690V 50~60Hz / 1.5 - 630 kW
- Output frequency : 0 - 1600 Hz up to 37kW ranges,
0 - 500 Hz for the others

" See Appendix 1 "

Approval Condition : " See Appendix 1 "

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Appendix 1

Product Description and/or Approval Condition

Certificate No : SGP29028-EL003

Date of Issue : 30th January, 2015.

Product Description : Altivar 71 (ATV71H series)

- 1) Single-phase supply voltage : 200 - 240V 50/60 Hz ;
 - Motor power indicated on plate : 0.37 - 5.5 kW
 - Max. line supply (input) : 6.9 - 47.3 A at 200V, 5.8 - 40.1 A at 240V
 - Drive (output) Max. available nominal current : 3 - 27.5 A
 - Type ;
ATV71H075M3, ATV71HU15M3, ATV71HU22M3, ATV71HU30M3, ATV71HU40M3, ATV71HU55M3, ATV71HU75M3
- 2) Three-phase supply voltage : 200 - 240V 50/60 Hz ;
 - Motor power indicated on plate : 0.37 - 75 kW
 - Max. line supply (input) : 3.5 - 274 A at 200V, 3.1 - 231 A at 240V
 - Drive (output) Max. available nominal current : 3 - 285 A
 - Type ;
ATV71H037M3, ATV71H075M3, ATV71HU15M3, ATV71HU22M3, ATV71HU30M3, ATV71HU40M3, ATV71HU55M3, ATV71HU75M3, ATV71HD11M3X, ATV71HD15M3X, ATV71HD18M3X, ATV71HD22M3X, ATV71HD30M3X, ATV71HD37M3X, ATV71HD45M3X, ATV71HD55M3X, ATV71HD75M3X
- 3) Three-phase supply voltage : 380 - 480V 50/60 Hz ;
 - Motor power indicated on plate : 0.75 - 500 kW
 - Max. line supply (input) : 3.7 - 876 A at 380V, 3.0 - 699 A at 480V
 - Drive (output) Max. available nominal current : 2.3 - 941 A
 - Type ;
ATV71H075N4, ATV71HU15N4, ATV71HU22N4, ATV71HU30N4, ATV71HU40N4, ATV71HU55N4, ATV71HU75N4, ATV71HD11N4, ATV71HD15N4, ATV71HD18N4, ATV71HD22N4, ATV71HD30N4, ATV71HD37N4, ATV71HD45N4, ATV71HD55N4, ATV71HD75N4, ATV71HD90N4, ATV71HC11N4, ATV71HC13N4, ATV71HC16N4, ATV71HC20N4, ATV71HC25N4, ATV71HC28N4, ATV71HC31N4, ATV71HC40N4, ATV71HC50N4
- 4) Three-phase supply voltage : 500-690V 50/60 Hz ;
 - Motor power indicated on plate : 1.5 - 500 kW at 500V, 2.2 - 630 kW at 690V
 - Max. line supply (input) : 3.8 - 673 A at 500V, 3.2 - 613 A at 690V
 - Drive (output) Max. available nominal current : 4 - 740 A at 500V,
4 - 675 A at 690V
 - Type ;
ATV71HU22Y, ATV71HU30Y, ATV71HU40Y, ATV71HU55Y, ATV71HU75Y, ATV71HD11Y, ATV71HD15Y, ATV71HD18Y, ATV71HD22Y, ATV71HD30Y, ATV71HD37Y, ATV71HD45Y, ATV71HD55Y, ATV71HD75Y, ATV71HD90Y, ATV71HC11Y, ATV71HC13Y, ATV71HC16Y, ATV71HC20Y, ATV71HC25Y, ATV71HC31Y, ATV71HC40Y, ATV71HC50Y, ATV71HC63Y

Approval condition :

1. The product or packing is to be marked with manufacturer name and type designation on a suitable position.
2. Individual Product Certification is not required.
3. This approval is granted on the basis of the following test & documents.
 - Test : Visual inspection, Performance Test, Electrical Power supply failure Test, Vibration Test, Dry Heat Test, Damp Heat Test, Cold Test, Insulation, Resistance Test, High Voltage Test, EMC Immunity (61000-4-4), EMC Immunity (61000-4-5), EMC Immunity (61000-4-6), EMC Immunity (61000-4-3), EMC Immunity (61000-4-2), EMC Radiated Emission Test, EMC Conducted Emission, Short Circuit Test
 - Document : ATV71 Installation manual & Drawings

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TYPE APPROVAL CERTIFICATE

Certificate No. : SGP29028-EL004 **Initial Approval** : 30th January, 2015.

Product : Motor starter

Manufacturer : PT Schneider Electric MFG Batam
Batam Industrial Park BLK 1, 4 & 208 MukaKuning - Batam Riau 29433,
Indonesia

Product Description : Soft starter for asynchronous motors

Type : Altistart48 (ATS48 Y-series, ATS48 Q-series)
- ATS48 Y-series : 208 - 690 V(3-phase), 17-1200A, 50/60Hz
- ATS48 Q-series : 230 - 415 V(4-phase), 17-1200A, 50/60Hz

" See Appendix 1 "

Approval Condition : " See Appendix 1 "

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Appendix 1

Product Description and/or Approval Condition

Certificate No : SGP29028-EL004

Date of Issue : 30th January, 2015.

Product Description :

Altistart48 (ATS48 Y-series, ATS48 Q-series)

1) ATS48 Y-series

- Three-phase supply voltage : 208 - 690 V - 50/60 Hz
- Nominal current (IcL) : 17 - 1200 A
- Motor Power : 4 - 355 kW at 230V, 7.5 - 630 kW at 400V, 9 - 800 kW at 500V,
15 - 900 kW at 690V
- Type : ATS48D17Y, ATS48D22Y, ATS48D32Y, ATS48D38Y, ATS48D47Y, ATS48D62Y, ATS48D75Y,
ATS48D88Y, ATS48C11Y, ATS48C14Y, ATS48C17Y, ATS48C21Y, ATS48C25Y, ATS48C32Y,
ATS48C41Y, ATS48C48Y, ATS48C59Y, ATS48C66Y, ATS48C79Y, ATS48M10Y, ATS48M12Y

2) ATS48 Q-series

- Three-phase supply voltage : 230 - 415 V - 50/60 Hz
- Nominal current (IcL) : 17 - 1200 A
- Motor Power : 4 - 355 kW at 230V, 7.5 - 630 kW at 400V
- Type : ATS48D17Q, ATS48D22Q, ATS48D32Q, ATS48D38Q, ATS48D47Q, ATS48D62Q, ATS48D75Q,
ATS48D88Q, ATS48C11Q, ATS48C14Q, ATS48C17Q, ATS48C21Q, ATS48C25Q, ATS48C32Q,
ATS48C41Q, ATS48C48Q, ATS48C59Q, ATS48C66Q, ATS48C79Q, ATS48M10Q, ATS48M12Q

Approval condition :

1. The product or packing is to be marked with manufacturer name and type designation on a suitable position.
2. Individual Product Certification is not required.
3. This approval is granted on the basis of the following test & documents.
 - Test : Visual inspection, Performance Test, Electrical Power supply failure Test, Vibration Test, Dry Heat Test, Damp Heat Test, Cold Test, Insulation, Resistance Test, High Voltage Test, EMC test
 - Document : ATS48 User manual & Catalogue

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