

**Date:** 12/11/2020

Qty. | Description

1 SP 215-10-A



Note! Product picture may differ from actual product

Product No.: 18AV43A0

Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. This pump carries drinking water approval.

The pump is fitted with a 190 kW MMS12000 motor with sand shield, water-lubricated journal bearings and a volume compensating diaphragm. The rewindable motor contruction allows complete access to the windings for easy rewinding. The stator windings are PE/PA insulated made for continous operations (S1). Suitable for temperatures up to 50 °C. The motor is fitted with a mechanical shaft seal.

The motor is not fitted with a temperature sensor. If temperature monitoring is desired, a Pt100 or Pt1000 sensor can be fitted.

The motor is for direct-on-line starting (DOL).

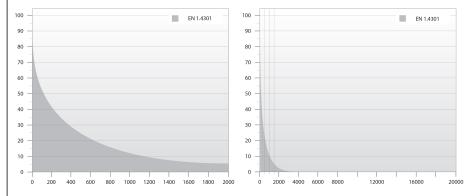
### **Further product details**

The pump is suitable for applications similar to the following:

- raw-water supply
- irrigation
- groundwater lowering
- pressure boosting
- fountain applications.

### Pump

All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosionand wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relation to the temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).



The elastomer parts in the pump are made of NBR (Nitrile-Butadiene Rubber) which ensures good wear resistance and long service intervals.

In case the pump is used for pumping water with high content of hydrocarbons or solvents, Grundfos offers FKM rubber parts (Fluorocarbon) which are oil and temperature-resistant up to 90 °C.



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The pump is built with octagonal bearings with sand flush channels that minimise wear. As wear of the pump is inevitable, the pump design allows for easy replacement of all internal wear parts (bearings, impeller, wear rings and seal rings) to maintain high performance and a long lifetime.

The suction interconnector is fitted with a strainer to prevent large particles from entering the pump.

### Motor

The winding wire is made from pure electrolytic cobber insulated by extruded two layers of PE/PA with high dielectric strength properties allowing direct contact between the motor fluid and winding wire. This ensures the best possible cooling of the winding wire. The PA layer ensures high mechanical wear properties of the winding wire.

The shaft seal faces are SiC/SiC. The material combination gives good performance when abrasive particles (sand) is present. Together with the shaft seal housing, the sand shield forms a labyrinth seal, which during normal operating conditions prevents penetration of sand particles into the shaft seal. This shaft seal is drinking water approved.

The motor can be fitted with a Pt100 or Pt1000 sensor that together with a control unit ensures that the maximum operating temperature conditions are not exceeded.

Liquid:

Pumped liquid: Water

Maximum liquid temperature: 45 °C

Max liquid t at 0.15 m/sec: 40 °C

Max liquid t at 0.5 m/sec: 45 °C

Selected liquid temperature: 20 °C

Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2900 rpm

Rated flow: 215 m³/h
Rated head: 243 m
Shaft seal for motor: SIC/SIC

Curve tolerance: ISO9906:2012 3B

Motor version: T45

Materials:

Pump: Stainless steel

EN 1.4301 AISI AISI 304

Impeller: Stainless steel EN 1.4301

AISI AISI 304

Motor: Cast iron

DIN W.-Nr. 0.6025 ASTM 35-40

Installation:

Pump outlet: RP6
Motor diameter: 12 inch

Electrical data:

Motor type: MMS12000
Rated power - P2: 190 kW
Power (P2) required by pump: 190 kW
Mains frequency: 50 Hz

 Rated voltage:
 3 x 380-400-415 V

 Rated current:
 390-390-395 A

 Starting current:
 580-620-620 %

 Cos phi - power factor:
 0.88-0.84-0.80

 Rated speed:
 2920-2930-2930 rpm

Start. method: direct-on-line

Enclosure class (IEC 34-5): IP68



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Built-in temp. transmitter: no Motor No: 96540339

Windings: PE2/PA

Others:

Minimum efficiency index, MEI ≥: -.--

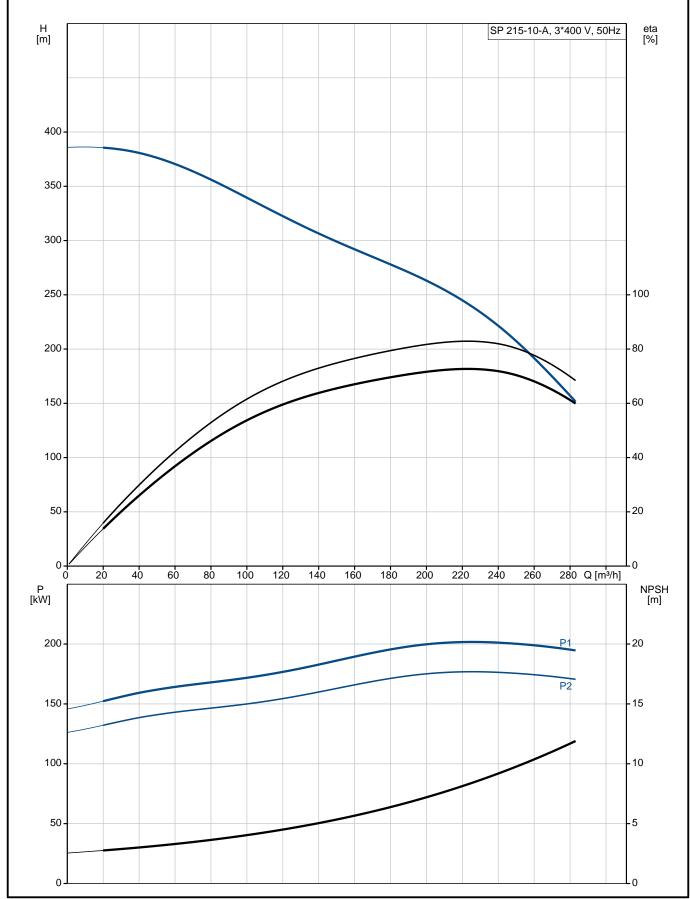
ErP status: EuP Standalone/Prod.

Net weight: 799 kg
Gross weight: 899 kg
Shipping volume: 1.45 m³
Country of origin: DK
Custom tariff no.: 84137029



**Date:** 12/11/2020

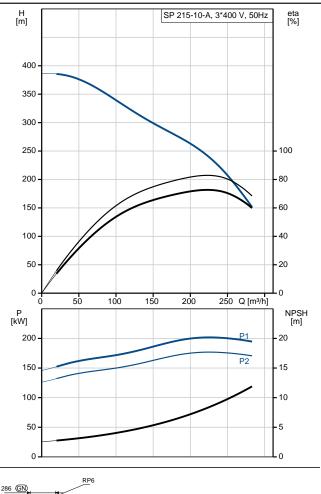
# 18AV43A0 SP 215-10-A 50 Hz

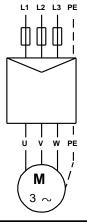




**Date:** 12/11/2020

Securitor   Secu	Description	Value	
Product No: 18AV43A0 EAN number: 5710626357307  Technical:  Pump speed on which pump data are based: 2900 rpm Rated flow: 215 m³/h Rated head: 243 m Stages: 10 Impeller reduc.: A Shaft seal for motor: SIC/SIC Curve tolerance: ISO9906:2012 3B Model: Q Valve: YES Motor version: T45  Materials:  Pump: Stainless steel Pump: Stainless steel Pump: EN 1.4301 Impeller: BN 1.4301 Impeller: Stainless steel Impeller: AISI AISI 304 Impeller: AIS	•	value	
Product No:         18AV43A0           EAN number:         5710626357307           Technical:         2900 rpm           Pump speed on which pump data are based:         2900 rpm           Rated flow:         215 m³/h           Rated head:         243 m           Stages:         10           Impeller reduc.:         A           Shaft seal for motor:         ISC/SIC           Curve tolerance:         ISO99906:2012 3B           Model:         C           Valve:         YES           Motor version:         T45           Materials:         T45           Mump:         Stainless steel           Pump:         Stainless steel           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         AISI AISI 304           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         Pumped liquid:           Water         Maximum liquid temperature:         45 °C           Maximum liquid temperature:		SD 215-10-Δ	
EAN number: 5710626357307  Technical:  Pump speed on which pump data are based: 2900 rpm  Rated flow: 215 m³/h Rated head: 243 m  Stages: 10 Impeller reduc.: A Shaft seal for motor: SIC/SIC Curve tolerance: ISO9906:2012 3B Model: C Valve: YES Motor version: T45  Materials:  Pump: Stainless steel Pump: EN 1.4301 Pump: EN 1.4301 Impeller: AISI AISI 304 Impeller: Stainless steel Impeller: AISI AISI 304 Motor: Cast iron Motor: DIN WNr. 0.6025 Motor diameter: 12 inch Liquid: Vater  Pump outlet: RP6 Motor diameter: 45 °C Max liquid t at 0.15 m/sec: 45 °C Selected liquid temperature: 45 °C Max liquid t at 0.5 m/sec: 40 °C Cestival diquid temperature: 20 °C Density: Beterical data: Motor type: MMS12000 Applic. motor: GRUNDFOS Rated power - P2: 190 kW Power (P2) required by pump: 190 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated speed: 2920-2930-2930 rpm Start: method: direct-on-line Enclosure class (IEC 34-5): IP68 Motor Protec: NONE Thermal protec: external Built-in temp. transmitter: no Motor No: World one. MEI â%*: Windings: PE2/PA Others: Minimum efficiency index, MEI â%*: ErP status: EuP Standalone/Prod.			
Technical:         2900 rpm           Bump speed on which pump data are based:         2900 rpm           Rated flow:         215 m³/h           Rated head:         243 m           Stages:         10           Impeller reduc.:         A           Shaft seal for motor:         SIC/SIC           Curve tolerance:         ISO9906:2012 3B           Model:         C           Valve:         YES           Motor version:         T45           Materials:         ***           Pump:         Stainless steel           Pump:         AISI AISI 304           Pump:         AISI AISI 304           Impeller:         EN 1.4301           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         Cast iron           Motor:         Cast iron           Motor:         ASTM 35-40           Installation:         ***           Pump outlet:         RP6           Motor diameter:         12 inch           Liquid:         ***           Maxiquid t at 0.15 m/sec:         45 °C           Maxiquid t at 0.5 m/sec:			
Pump speed on which pump data are based:         2900 rpm           Rated flow:         215 m³/h           Rated head:         243 m           Stages:         10           Impeller reduc.:         A           Shaft seal for motor:         SIC/SIC           Curve tolerance:         ISO9906:2012 3B           Model:         C           Valve:         YES           Motor version:         T45           Materials:         T45           Pump:         Stainless steel           Pump:         AISI AISI 304           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         BN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         Cast iron           Motor:         ASTM 35-40           Installation:         Pump outlet:           Ref         Motor idameter:         12 inch           Liquid:         Water           Maximum liquid temperature:         45 °C           Max liquid tat 0.15 m/sec:         45 °C           Max liquid tat at 0.5 m/sec:         45 °C           Selected liquid temperature:		07 10020007007	
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Rated head:         243 m           Stages:         10           Impeller reduc.:         A           Shaft seal for motor:         SIC/SIC           Curve tolerance:         ISO9906:2012 3B           Model:         C           Valve:         YES           Motor version:         T45           Materials:         T45           Pump:         Stainless steel           Pump:         EN 1.4301           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         Stainless steel           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         Cast iron           Motor:         AISI AISI 304           Motor:         AISI AISI 304           Motor:         ASTM 35-40           Installation:         Pumped liquid:           Water         Water           Motor diameter:         12 inch           Liquid:         Water           Pumped liquid:         Water           Maximum liquid temperature:         45 °C           Max liquid t at 0.15 m/sec:         40 °C           Max liquid t at 0.5 m/sec:		2900 rpm	
Stages:   10   Impeller reduc.:   A   Shaft seal for motor:   SIC/SIC   Curve tolerance:   ISO9906:2012 3B   Model:   C   Valve:   YES   Motor version:   T45   Materials:   Stainless steel   Pump:   Stainless steel   Pump:   EN 1.4301   AISI AISI 304   Impeller:   Stainless steel   Impeller:   Stainless steel   Impeller:   Stainless steel   Impeller:   AISI AISI 304   Impeller:   AISI AISI 304   Impeller:   AISI AISI 304   AISI AISI 304   Impeller:   AISI AISI 304   AISI AISI AISI 304   AISI AISI 304   AISI AISI AISI 304   AISI AISI 304   AISI AISI AISI AISI AISI AI	Rated flow:	215 m³/h	
Impeller reduc.:	Rated head:	243 m	
Shaft seal for motor:         SIC/SIC           Curve tolerance:         ISO9906:2012 3B           Model:         C           Valve:         YES           Motor version:         T45           Materials:         T45           Pump:         Stainless steel           Pump:         EN 1.4301           Pumpi:         AISI AISI 304           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         ASTM 35-40           Installation:         Pump outlet:           RP6         Motor diameter:           Liquid:         Water           Maximum liquid temperature:         45 °C           Max liquid t at 0.15 m/sec:         40 °C           Max liquid t at 0.15 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Motor type:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 H	Stages:	10	
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Curve tolerance:         ISO9906:2012 3B           Model:         C           Valve:         YES           Motor version:         T45           Materials:         Fump:           Pump:         Stainless steel           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         Fump outlet:           Pump outlet:         RP6           Motor diameter:         12 inch           Liquid:         Water           Maximum liquid temperature:         45 °C           Max liquid t at 0.15 m/sec:         40 °C           Max liquid t at 0.5 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Motor type:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190		SIC/SIC	
Valve:         YES           Motor version:         T45           Materials:         Pump:         Stainless steel           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         Pump outlet:         RP6           Motor diameter:         12 inch           Liquid:         Water           Maximum liquid temperature:         45 °C           Max liquid t at 0.15 m/sec:         40 °C           Max liquid t at 0.5 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         580-620-620 %           Cos phi - power factor:		ISO9906:2012 3B	
Motor version:         T45           Materials:         Pump:         Stainless steel           Pump:         EN 1.4301           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         Pump outlet:           RP6         Motor diameter:         12 inch           Liquid:         Water           Maxinquid:         Water           Maxinquid:         Water           Maxinquid:         Water           Maxinquid:         45 °C           Maxinquid:         40 °C           Maxinquid:         <	Model:	С	
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Pump:         Stainless steel           Pump:         EN 1.4301           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         Pump outlet:           RP6         Motor diameter:           Liquid:         Vater           Maximum liquid temperature:         45 °C           Max liquid t at 0.15 m/sec:         40 °C           Max liquid t at 0.5 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Motor type:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated speed:         390-390-395 A           Starting current:         580-620-620 %	Motor version:	T45	
Pump:         EN 1.4301           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         Pump outlet:           Pump outlet:         RP6           Motor diameter:         12 inch           Liquid:         Water           Max liquid t at 0.15 m/sec:         45 °C           Max liquid t at 0.5 m/sec:         45 °C           Max liquid t at 0.5 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80     <			
Pump:         EN 1.4301           Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         Pump outlet:           Pump outlet:         RP6           Motor diameter:         12 inch           Liquid:         Water           Max liquid t at 0.15 m/sec:         45 °C           Max liquid t at 0.5 m/sec:         45 °C           Max liquid t at 0.5 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80     <	Pump:	Stainless steel	
Pump:         AISI AISI 304           Impeller:         Stainless steel           Impeller:         EN 1.4301           Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation: <td a="" rows="" standa<="" standard="" td=""><td><u>'</u></td><td></td></td>	<td><u>'</u></td> <td></td>	<u>'</u>	
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Impeller:         AISI AISI 304           Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         Pump outlet:           Pump outlet:         RP6           Motor diameter:         12 inch           Liquid:         Water           Maxinum liquid temperature:         45 °C           Max liquid t at 0.15 m/sec:         45 °C           Max liquid t at 0.5 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80           Rated speed:         2920-2930-2930 rpm           Start. method:         direct-on-line           Enclosure cla			
Motor:         Cast iron           Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         RP6           Pump outlet:         RP6           Motor diameter:         12 inch           Liquid:         Water           Pumped liquid:         Water           Max liquid t at 0.15 m/sec:         45 °C           Max liquid t at 0.5 m/sec:         45 °C           Max liquid t at 0.5 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Motor type:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80           Rated speed:         2920-2930-2930 rpm           Start. method:         direct-on-line           Enclosure class (IEC 34-5):	·		
Motor:         DIN WNr. 0.6025           Motor:         ASTM 35-40           Installation:         RP6           Motor diameter:         12 inch           Liquid:         Water           Pumped liquid:         Water           Maximum liquid temperature:         45 °C           Max liquid t at 0.15 m/sec:         45 °C           Max liquid t at 0.5 m/sec:         45 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80           Rated speed:         2920-2930-2930 rpm           Start. method:         direct-on-line           Enclosure class (IEC 34-5):         IP68           Motor protec:         NONE           Thermal protec:         external           Built-in temp.			
Motor: ASTM 35-40  Installation: Pump outlet: RP6  Motor diameter: 12 inch  Liquid: Pumped liquid: Water  Maximum liquid temperature: 45 °C  Max liquid t at 0.15 m/sec: 40 °C  Max liquid t at 0.5 m/sec: 45 °C  Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: MMS12000  Applic. motor: GRUNDFOS  Rated power - P2: 190 kW  Power (P2) required by pump: 190 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-400-415 V  Rated current: 390-390-395 A  Starting current: 580-620-620 %  Cos phi - power factor: 0.88-0.84-0.80  Rated speed: 2920-2930-2930 rpm  Start. method: direct-on-line  Enclosure class (IEC 34-5): IP68  Motor protec: NONE  Thermal protec: external  Built-in temp. transmitter: no  Motor No: 96540339  Windings: PE2/PA  Others:  Minimum efficiency index, MEI ≥:  ErP status: EuP Standalone/Prod.			
Installation: Pump outlet: RP6 Motor diameter: Liquid: Pumped liquid: Water Maximum liquid temperature: 45 °C Max liquid t at 0.15 m/sec: 40 °C Max liquid t at 0.5 m/sec: 45 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³  Electrical data: Motor type: MMS12000 Applic. motor: GRUNDFOS Rated power - P2: 190 kW Power (P2) required by pump: 190 kW Mains frequency: 50 Hz Rated voltage: 3 x x 380-400-415 V Rated current: 390-390-395 A Starting current: 580-620-620 % Cos phi - power factor: 0.88-0.84-0.80 Rated speed: 2920-2930-2930 rpm Start. method: Enclosure class (IEC 34-5): IP68 Motor protec: NONE Thermal protec: Enclosure transmitter: no Motor No: 96540339 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status:  EuP Standalone/Prod.			
Pump outlet:  Motor diameter:  Liquid:  Pumped liquid:  Water  Maximum liquid temperature:  Max liquid t at 0.15 m/sec:  Max liquid t at 0.5 m/sec:  Selected liquid temperature:  Density:  Pomotor:  Motor type:  Applic. motor:  Rated power - P2:  Power (P2) required by pump:  Mains frequency:  Rated voltage:  Rated voltage:  Starting current:  Cos phi - power factor:  Rated speed:  Enclosure class (IEC 34-5):  Motor No:  Motor No:  Motor No:  Motor No:  Motor Motor  Motor No:  Motor Motor  Motor  Motor Motor  Motor Motor  Motor  Motor Motor  Motor  Motor  Mo		A01W 00 40	
Motor diameter:  Liquid:  Pumped liquid:  Maximum liquid temperature:  Max liquid t at 0.15 m/sec:  Max liquid t at 0.5 m/sec:  Max liquid t at 0.5 m/sec:  Selected liquid temperature:  Density:  Density:  Blectrical data:  Motor type:  Applic. motor:  Rated power - P2:  Power (P2) required by pump:  Mains frequency:  Rated voltage:  Rated voltage:  Rated current:  Sayo-390-395 A  Starting current:  Cos phi - power factor:  Rated speed:  Start. method:  Enclosure class (IEC 34-5):  Motor No:  Motor No:  Motor No:  Motor No:  Motor No:  Motor Mains frequency:  Density:  Motor Potec:  Motor Potec:  Motor Potec:  Motor No:  Motor No:  Motor No:  Motor No:  Motor Potec:  Minimum efficiency index, MEI ≥:  EuP Standalone/Prod.		RP6	
Liquid: Pumped liquid: Water  Maximum liquid temperature: 45 °C  Max liquid t at 0.15 m/sec: 40 °C  Max liquid t at 0.5 m/sec: 45 °C  Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: Applic. motor: Rated power - P2: Power (P2) required by pump: 190 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-400-415 V  Rated current: 390-390-395 A  Starting current: 580-620-620 %  Cos phi - power factor: 0.88-0.84-0.80  Rated speed: 2920-2930-2930 rpm  Start. method: direct-on-line Enclosure class (IEC 34-5): IP68  Motor protec: Thermal protec: external Built-in temp. transmitter: no Motor No: 96540339 Windings: PE2/PA  Others:  Minimum efficiency index, MEI ≥: ErP status:  EuP Standalone/Prod.	•		
Pumped liquid:  Maximum liquid temperature:  Max liquid t at 0.15 m/sec:  Max liquid t at 0.5 m/sec:  Selected liquid temperature:  Density:  Density:  Electrical data:  Motor type:  Applic. motor:  Rated power - P2:  Power (P2) required by pump:  Rated voltage:  Rated voltage:  Starting current:  Cos phi - power factor:  Rated speed:  Enclosure class (IEC 34-5):  Motor No:  Motor No:  Motor No:  Motor No:  Motor Iquid temperature:  45 °C  45 °C  Applic. motor  Applic. motor:  Bullt-in temp. transmitter:  Motor No:  Motor No:  Motor Prod.  ErP status:  Water  Mas °C  Ap °C  Applic ap °C  Ap °C  Applic ap °C  Applic ap °C  Ap °C  Applic ap °C  Ap		<b>i</b>	
Maximum liquid temperature:45 °CMax liquid t at 0.15 m/sec:40 °CMax liquid t at 0.5 m/sec:45 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:MMS12000Motor type:MMS12000Applic. motor:GRUNDFOSRated power - P2:190 kWPower (P2) required by pump:190 kWMains frequency:50 HzRated voltage:3 x 380-400-415 VRated current:390-390-395 AStarting current:580-620-620 %Cos phi - power factor:0.88-0.84-0.80Rated speed:2920-2930-2930 rpmStart. method:direct-on-lineEnclosure class (IEC 34-5):IP68Motor protec:NONEThermal protec:externalBuilt-in temp. transmitter:noMotor No:96540339Windings:PE2/PAOthers:Minimum efficiency index, MEI ≥:ErP status:EuP Standalone/Prod.	•	Water	
Max liquid t at 0.15 m/sec:  Max liquid t at 0.5 m/sec:  Selected liquid temperature:  Density:  Blectrical data:  Motor type:  Applic. motor:  Rated power - P2:  Power (P2) required by pump:  Rated voltage:  Rated voltage:  Starting current:  Cos phi - power factor:  Rated speed:  Start. method:  Enclosure class (IEC 34-5):  Motor No:  Motor No:  Motor No:  Motor No:  Motor Mains frequency:  Selectrical data:  MMS12000  Applic. motor:  GRUNDFOS  AWW  MMS12000  GRUNDFOS  ASW  40 *C  AWW  MAS12000  APPLICATION  AND  Selectrical data:  MMS12000  APPLICATION  AND  Selectrical data:  MMS12000  APPLICATION  AND  Selectrical data:  MMS12000  APPLICATION  MS12000  APPLICATION  AND  Selectrical data:  MMS12000  APPLICATION  AND  Selectrical data:  MMS12000  APPLICATION  MAS12000  APPLICATION  AND  Selectrical data:  Also  AND  AND  Selectrical data:  Also  AND  AND  Bellectrical data:  Also  AND  Bellectrical data:  And  AND  Bellectrical data:  And  AND  Bellectrical data:  Bellectrical data:  And  Bellectrical data:  And  Bellectrical data:  And  Bellectrical data:  Bellectrical dat			
Max liquid t at 0.5 m/sec:  Selected liquid temperature:  Density:  Peterrical data:  Motor type:  MMS12000  Applic. motor:  Rated power - P2:  Power (P2) required by pump:  Rated voltage:  Rated voltage:  Rated current:  Say0-390-395 A  Starting current:  Cos phi - power factor:  Rated speed:  Enclosure class (IEC 34-5):  Motor No:  Motor No:  Motor No:  Motor No:  Motor Startus:  Minimum efficiency index, MEI ≥:  ErP status:  Motor Prod.  Page 20 °C  RMMS12000  AMS12000  AMMS12000  AMMS12			
Selected liquid temperature:  Density:  Density:  998.2 kg/m³  Electrical data:  Motor type:  MMS12000  Applic. motor:  GRUNDFOS  Rated power - P2:  190 kW  Power (P2) required by pump:  Mains frequency:  So Hz  Rated voltage:  3 x 380-400-415 V  Rated current:  390-390-395 A  Starting current:  580-620-620 %  Cos phi - power factor:  0.88-0.84-0.80  Rated speed:  2920-2930-2930 rpm  Start. method:  Enclosure class (IEC 34-5):  Motor protec:  NONE  Thermal protec:  Enclosure class (IEC 34-5):  Motor No:  Motor No:  Motor No:  Motor No:  Motor No:  Motor Selected liquid temperature  290-89.2 kg/m³  Minimum efficiency index, MEI ≥:  EuP Standalone/Prod.	•		
Density:         998.2 kg/m³           Electrical data:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80           Rated speed:         2920-2930-2930 rpm           Start. method:         direct-on-line           Enclosure class (IEC 34-5):         IP68           Motor protec:         NONE           Thermal protec:         external           Built-in temp. transmitter:         no           Motor No:         96540339           Windings:         PE2/PA           Others:         Minimum efficiency index, MEI ≥:            ErP status:         EuP Standalone/Prod.	·		
Electrical data:           Motor type:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80           Rated speed:         2920-2930-2930 rpm           Start. method:         direct-on-line           Enclosure class (IEC 34-5):         IP68           Motor protec:         NONE           Thermal protec:         external           Built-in temp. transmitter:         no           Motor No:         96540339           Windings:         PE2/PA           Others:           Minimum efficiency index, MEI ≥:            ErP status:         EuP Standalone/Prod.			
Motor type:         MMS12000           Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80           Rated speed:         2920-2930-2930 rpm           Start. method:         direct-on-line           Enclosure class (IEC 34-5):         IP68           Motor protec:         NONE           Thermal protec:         external           Built-in temp. transmitter:         no           Motor No:         96540339           Windings:         PE2/PA           Others:         Minimum efficiency index, MEI ≥:            ErP status:         EuP Standalone/Prod.		000.2 Ng/111	
Applic. motor:         GRUNDFOS           Rated power - P2:         190 kW           Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80           Rated speed:         2920-2930-2930 rpm           Start. method:         direct-on-line           Enclosure class (IEC 34-5):         IP68           Motor protec:         NONE           Thermal protec:         external           Built-in temp. transmitter:         no           Motor No:         96540339           Windings:         PE2/PA           Others:            Minimum efficiency index, MEI ≥:            ErP status:         EuP Standalone/Prod.		MMS12000	
Rated power - P2:       190 kW         Power (P2) required by pump:       190 kW         Mains frequency:       50 Hz         Rated voltage:       3 x 380-400-415 V         Rated current:       390-390-395 A         Starting current:       580-620-620 %         Cos phi - power factor:       0.88-0.84-0.80         Rated speed:       2920-2930-2930 rpm         Start. method:       direct-on-line         Enclosure class (IEC 34-5):       IP68         Motor protec:       NONE         Thermal protec:       external         Built-in temp. transmitter:       no         Motor No:       96540339         Windings:       PE2/PA         Others:       Minimum efficiency index, MEI ≥:          ErP status:       EuP Standalone/Prod.			
Power (P2) required by pump:         190 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-400-415 V           Rated current:         390-390-395 A           Starting current:         580-620-620 %           Cos phi - power factor:         0.88-0.84-0.80           Rated speed:         2920-2930-2930 rpm           Start. method:         direct-on-line           Enclosure class (IEC 34-5):         IP68           Motor protec:         NONE           Thermal protec:         external           Built-in temp. transmitter:         no           Motor No:         96540339           Windings:         PE2/PA           Others:         Minimum efficiency index, MEI ≥:            ErP status:         EuP Standalone/Prod.	• •		
Mains frequency:       50 Hz         Rated voltage:       3 x 380-400-415 V         Rated current:       390-390-395 A         Starting current:       580-620-620 %         Cos phi - power factor:       0.88-0.84-0.80         Rated speed:       2920-2930-2930 rpm         Start. method:       direct-on-line         Enclosure class (IEC 34-5):       IP68         Motor protec:       NONE         Thermal protec:       external         Built-in temp. transmitter:       no         Motor No:       96540339         Windings:       PE2/PA         Others:       Minimum efficiency index, MEI ≥:          ErP status:       EuP Standalone/Prod.			
Rated voltage:       3 x 380-400-415 V         Rated current:       390-390-395 A         Starting current:       580-620-620 %         Cos phi - power factor:       0.88-0.84-0.80         Rated speed:       2920-2930-2930 rpm         Start. method:       direct-on-line         Enclosure class (IEC 34-5):       IP68         Motor protec:       NONE         Thermal protec:       external         Built-in temp. transmitter:       no         Motor No:       96540339         Windings:       PE2/PA         Others:         Minimum efficiency index, MEI ≥:          ErP status:       EuP Standalone/Prod.			
Rated current:       390-390-395 A         Starting current:       580-620-620 %         Cos phi - power factor:       0.88-0.84-0.80         Rated speed:       2920-2930-2930 rpm         Start. method:       direct-on-line         Enclosure class (IEC 34-5):       IP68         Motor protec:       NONE         Thermal protec:       external         Built-in temp. transmitter:       no         Motor No:       96540339         Windings:       PE2/PA         Others:       Minimum efficiency index, MEI ≥:          ErP status:       EuP Standalone/Prod.	· · ·		
Starting current: 580-620-620 %  Cos phi - power factor: 0.88-0.84-0.80  Rated speed: 2920-2930-2930 rpm  Start. method: direct-on-line  Enclosure class (IEC 34-5): IP68  Motor protec: NONE  Thermal protec: external  Built-in temp. transmitter: no  Motor No: 96540339  Windings: PE2/PA  Others:  Minimum efficiency index, MEI ≥:  ErP status: EuP Standalone/Prod.	-		
Cos phi - power factor:  Rated speed:  Start. method:  Enclosure class (IEC 34-5):  Motor protec:  Thermal protec:  Built-in temp. transmitter:  Motor No:  Motor No:			
Rated speed: 2920-2930-2930 rpm Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Motor protec: NONE Thermal protec: external Built-in temp. transmitter: no Motor No: 96540339 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: EuP Standalone/Prod.			
Start. method:  Enclosure class (IEC 34-5):  Motor protec:  Thermal protec:  Built-in temp. transmitter:  Motor No:  96540339  Windings:  PE2/PA  Others:  Minimum efficiency index, MEI ≥:  ErP status:  direct-on-line incetton-line incetto			
Enclosure class (IEC 34-5):  Motor protec:  Thermal protec:  Built-in temp. transmitter:  Motor No:  96540339  Windings:  PE2/PA  Others:  Minimum efficiency index, MEI ≥:  ErP status:  IP68  NONE  external  98540339  PE2/PA  EuP Standalone/Prod.	•	· · · · · · · · · · · · · · · · · · ·	
Motor protec:  Thermal protec:  Built-in temp. transmitter:  Motor No:  96540339  Windings:  PE2/PA  Others:  Minimum efficiency index, MEI ≥:  ErP status:  NONE  external  96540339  PE2/PA   EuP Standalone/Prod.			
Thermal protec: external  Built-in temp. transmitter: no  Motor No: 96540339  Windings: PE2/PA  Others:  Minimum efficiency index, MEI ≥:  ErP status: EuP Standalone/Prod.			
Built-in temp. transmitter:  Motor No:  96540339  Windings:  PE2/PA  Others:  Minimum efficiency index, MEI ≥:  ErP status:  BuP Standalone/Prod.			
Motor No: 96540339 Windings: PE2/PA  Others: Minimum efficiency index, MEI ≥:  ErP status: EuP Standalone/Prod.			
Windings: PE2/PA  Others:  Minimum efficiency index, MEI ≥:  ErP status:  EuP Standalone/Prod.			
Others:  Minimum efficiency index, MEI ≥:  ErP status:  EuP Standalone/Prod.			
Minimum efficiency index, MEI ≥:  ErP status:   EuP Standalone/Prod.		4111	
ErP status: EuP Standalone/Prod.			
Net weight: 799 kg		<u> </u>	
	Net weight:	799 kg	







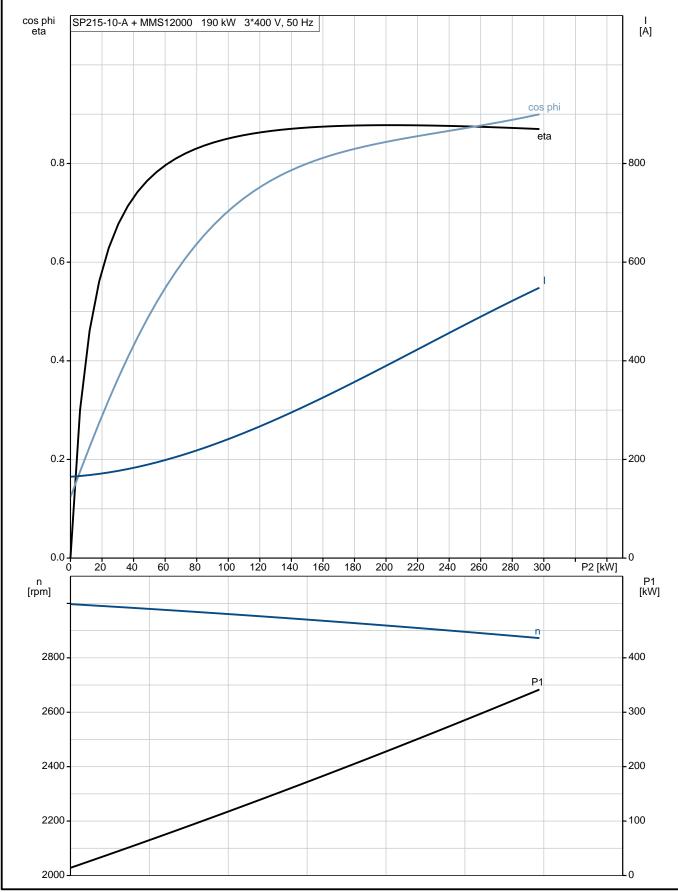
**Date:** 12/11/2020

Description	Value
Gross weight:	899 kg
Shipping volume:	1.45 m³
Country of origin:	DK
Custom tariff no.:	84137029



**Date:** 12/11/2020

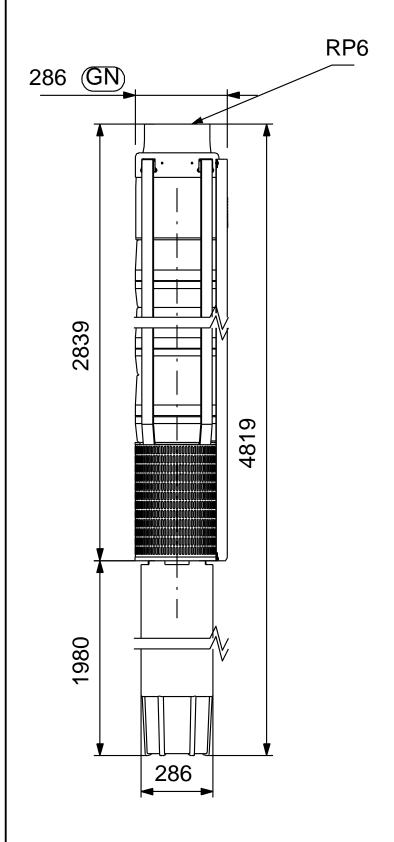
# 18AV43A0 SP 215-10-A 50 Hz





Date: 12/11/2020

# 18AV43A0 SP 215-10-A 50 Hz

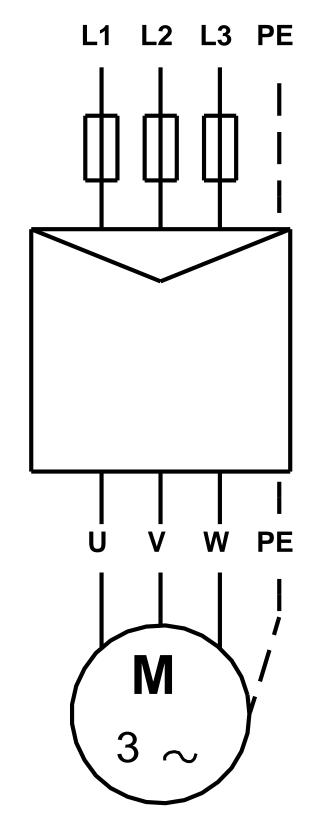


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 12/11/2020

18AV43A0 SP 215-10-A 50 Hz



Note! All units are in [mm] unless others are stated.