

Company name: Created by: Phone:

| Description  |  |  |  |  |                  |
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|  | on   |  |  |  |                  |
| SP 160-10  | )-AA   |  |  |  |                  |
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| Product N  | o.: 200243B0   | Note! Product pic                                    | cture may differ from  | actual product   |                  |
| FIGUUCIN   | 0 20024300   |  |  |  |                  |
| Submersit  | ole borehole pump, suita   | ble for pumping                                      | clean water. Can   | be installed vertically or horiz   | zontally. All st |
|  | nts are made in stainless<br>nking water approval.   | s steel, EN 1.430                                    | 01 (AISI 304), that  | ensures high corrosive resis   | tance. This p    |
|  | •  | MMS8000 motor  | r with sand shield   | water-lubricated journal bear  | rings and a      |
| volume co  | mpensating diaphragm.  | The rewindable                                       | e motor contruction  | n allows complete access to t  | he windings f    |
| easy rewir   | nding. The stator winding<br>res up to 50 °C. The mo   | gs are PE/PA in:                                     | sulated made for   | continous operations (S1). S   | uitable for      |
| •  | •  |  |  | nitoring is desired, a Pt100 o   | r Dt1000 con     |
| can be fitte   |  | erature sensor.                                      | ii temperature mo  | initioning is desired, a Fillou o  | I FITUUU Sens    |
| The motor  | r is for direct-on-line star   | ting (DOL).  |  |  |                  |
|  |  |  |  |  |                  |
|  |  |  |  |  |                  |
| Further  | product details  |  |  |  |                  |
|  | product details  | ons similar to the                                   | e following:   |  |                  |
| The pump<br>- raw  | is suitable for application  | ons similar to the                                   | e following:   |  |                  |
| The pump<br>- raw<br>- irrig   | is suitable for applicatio<br>-water supply<br>gation  | ons similar to the                                   | e following:   |  |                  |
| The pump<br>- raw<br>- irrig<br>- gro  | is suitable for applicatio<br>-water supply<br>gation<br>undwater lowering   | ons similar to the                                   | following:   |  |                  |
| The pump<br>- raw<br>- irriç<br>- gro<br>- pre   | is suitable for application<br>v-water supply<br>gation<br>undwater lowering<br>ssure boosting   | ons similar to the                                   | e following:   |  |                  |
| The pump<br>- raw<br>- irrig<br>- gro<br>- pre<br>- fou  | is suitable for applicatio<br>-water supply<br>gation<br>undwater lowering   | ons similar to the                                   | o following:   |  |                  |
| The pump<br>- raw<br>- irrig<br>- gro<br>- pre<br>- fou<br>Pump<br>All pump s  | is suitable for application<br>y-water supply<br>gation<br>bundwater lowering<br>essure boosting<br>ntain applications.<br>surfaces that are in conta  | act with pumped                                      | l liquids are made   | in stainless steel which make  |                  |
| The pump<br>- raw<br>- irrig<br>- gro<br>- pre<br>- fou<br>Pump<br>All pump s<br>and wear-   | is suitable for application<br>y-water supply<br>gation<br>undwater lowering<br>ssure boosting<br>ntain applications.<br>surfaces that are in conta<br>resistant. The corrosion  | act with pumped<br>diagram below                     | l liquids are made<br>shows the capabi   | lities of the pump and motor in  |                  |
| The pump<br>- raw<br>- irrig<br>- gro<br>- pre<br>- fou<br>Pump<br>All pump s<br>and wear-<br>temperatu  | is suitable for application<br>y-water supply<br>gation<br>bundwater lowering<br>essure boosting<br>ntain applications.<br>surfaces that are in conta  | act with pumped<br>diagram below<br>d the concentrat | l liquids are made<br>shows the capabi   | lities of the pump and motor in  |                  |
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| The pump<br>- raw<br>- irrig<br>- gro<br>- pre<br>- fou<br>Pump<br>All pump s<br>and wear-<br>temperatu  | b is suitable for application<br>y-water supply<br>gation<br>bundwater lowering<br>essure boosting<br>ntain applications.<br>surfaces that are in conta<br>resistant. The corrosion<br>ire in Celsius (y-axis) an<br>100 EN 1<br>100 EN 1<br>1   | act with pumped<br>diagram below<br>d the concentrat | l liquids are made<br>shows the capabi<br>tion of chloride in  | lities of the pump and motor in<br>opm (x-axis).   | n relation to tl |
| The pump<br>- raw<br>- irrig<br>- gro<br>- pre<br>- fou<br>Pump<br>All pump s<br>and wear-<br>temperatu  | bis suitable for application<br>y-water supply<br>gation<br>bundwater lowering<br>essure boosting<br>ntain applications.<br>surfaces that are in conta<br>resistant. The corrosion<br>ire in Celsius (y-axis) an<br>whether the corrosion<br>ire in Celsius (y-axis) an<br>whether the corrosion<br>is and long service interval   | act with pumped<br>diagram below<br>d the concentrat | I liquids are made<br>shows the capabi<br>tion of chloride in  | <ul> <li>ities of the pump and motor in ppm (x-axis).</li> <li>EN 1.4301</li> <li>EN 1.4301</li> <li>EN 1.6000</li> <li>20000</li> </ul> | n relation to th |
| The pump<br>- raw<br>- irrig<br>- gro<br>- pre<br>- fou<br>Pump<br>All pump s<br>and wear-<br>temperatu<br>100<br>- 0<br>- 0<br>- 0<br>- 0<br>- 0<br>- 0<br>- 0<br>-   | bis suitable for application<br>y-water supply<br>gation<br>bundwater lowering<br>essure boosting<br>ntain applications.<br>surfaces that are in conta<br>resistant. The corrosion<br>ire in Celsius (y-axis) an<br>whether the corrosion<br>ire in Celsius (y-axis) an<br>whether the corrosion<br>is and long service interval   | act with pumped<br>diagram below<br>d the concentrat | I liquids are made<br>shows the capabi<br>tion of chloride in<br>A 4000 6000 8000 1200<br>R (Nitrile-Butadien<br>nigh content of hyd | lities of the pump and motor in<br>opm (x-axis).   | n relation to th |



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Date: 10/11/2020

Description 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. The suction interconnector is designed to comply with NEMA standards for motor mounting/dimensions.

## Motor

Qty.

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.

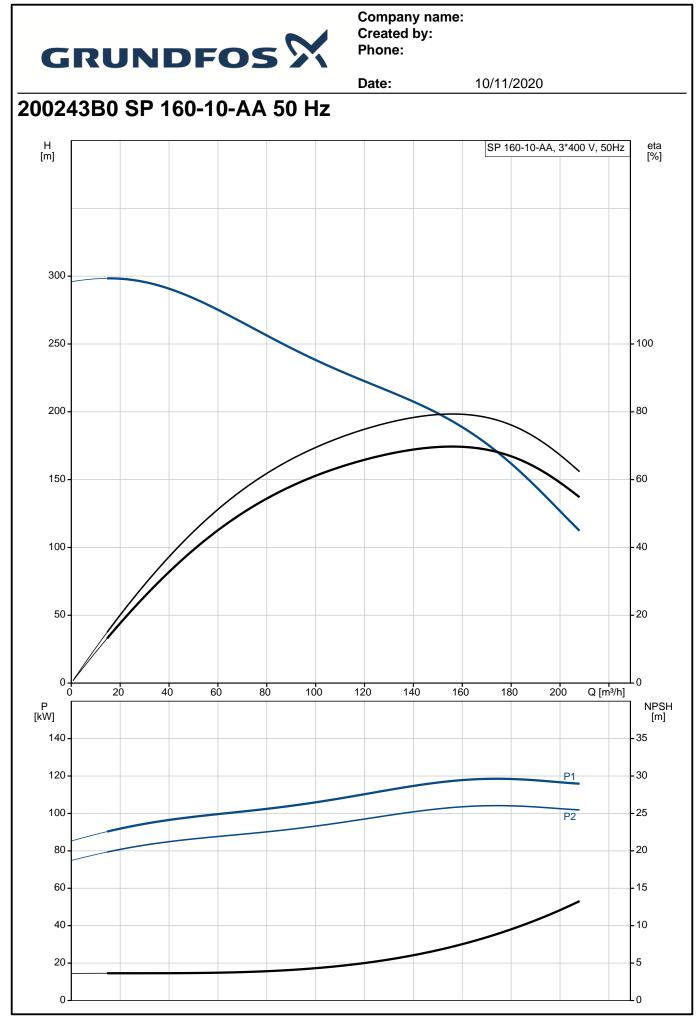
Liquid:

| Pumped liquid:<br>Maximum liquid temperature:<br>Max liquid t at 0.15 m/sec:<br>Max liquid t at 0.5 m/sec:<br>Selected liquid temperature:<br>Density:   | Water<br>40 °C<br>35 °C<br>40 °C<br>20 °C<br>998.2 kg/m <sup>3</sup>  |
|--|---|
| Technical:<br>Pump speed on which pump dat<br>Rated flow:<br>Rated head:<br>Shaft seal for motor:<br>Curve tolerance:<br>Motor version:  | a are based: 2900 rpm<br>160 m³/h<br>189 m<br>SIC/SIC<br>ISO9906:2012 3B<br>T40   |
| Materials:   |   |
| Pump:<br>Impeller:<br>Motor:   | Stainless steel<br>EN 1.4301<br>AISI AISI 304<br>Stainless steel<br>EN 1.4301<br>AISI AISI 304<br>Cast iron<br>DIN WNr. 0.6025<br>ASTM 35-40          |
| Installation:  |   |
| Pump outlet:   | RP6   |
| Motor diameter:  | 8 inch  |
| Electrical data:<br>Motor type:<br>Rated power - P2:<br>Power (P2) required by pump:<br>Mains frequency:<br>Rated voltage:<br>Rated current:<br>Starting current:<br>Cos phi - power factor:<br>Rated speed:<br>Start. method: | MMS8000<br>110 kW<br>110 kW<br>50 Hz<br>3 x 380-400-415 V<br>230-224-222 A<br>520-580-600 %<br>0.89-0.87-0.84<br>2870-2890-2900 rpm<br>direct-on-line |



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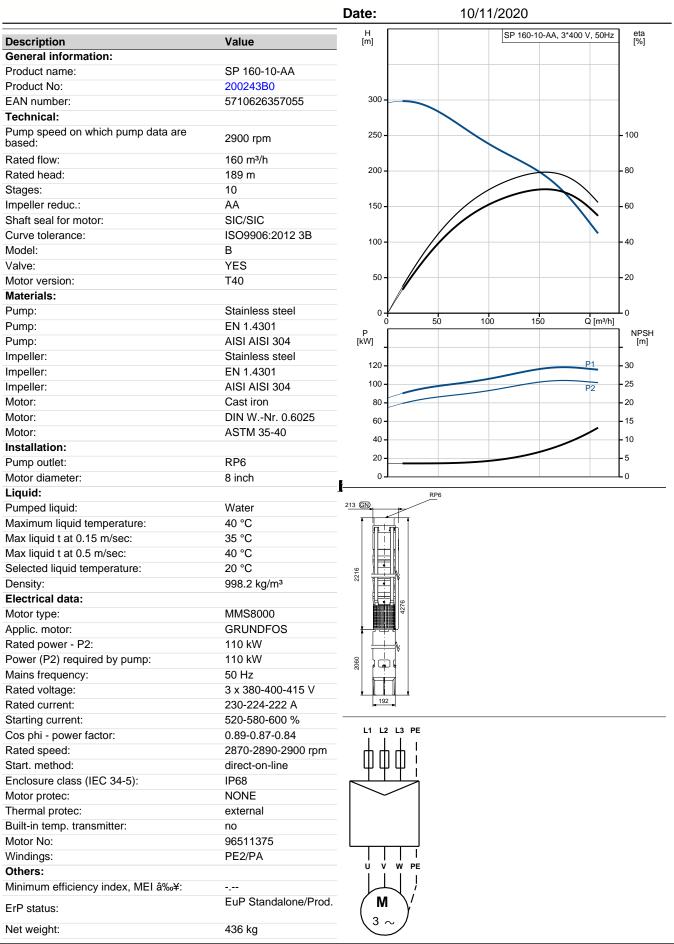
| GRUNDF   |                      | Date: | 10/11/2020 |  |  |  |  |
|--|----------------------|-------|------------|--|--|--|--|
| Description  |                      |       |            |  |  |  |  |
| Enclosure class (IEC 34-5):<br>Built-in temp. transmitter: | IP68                 |       |            |  |  |  |  |
| Motor No:  | no<br>96511375       |       |            |  |  |  |  |
| Windings:  | 96511375<br>PE2/PA   |       |            |  |  |  |  |
| Windings.  |                      |       |            |  |  |  |  |
| Others:  |                      |       |            |  |  |  |  |
| Minimum efficiency index, MEI ≥:                           |                      |       |            |  |  |  |  |
| ErP status:  | EuP Standalone/I     | Prod. |            |  |  |  |  |
| Net weight:  | 436 kg               |       |            |  |  |  |  |
| Gross weight:  | 517 kg               |       |            |  |  |  |  |
| Shipping volume:   | 0.698 m <sup>3</sup> |       |            |  |  |  |  |
| Country of origin:   | DK                   |       |            |  |  |  |  |
| Custom tariff no .:  | 84137029             |       |            |  |  |  |  |
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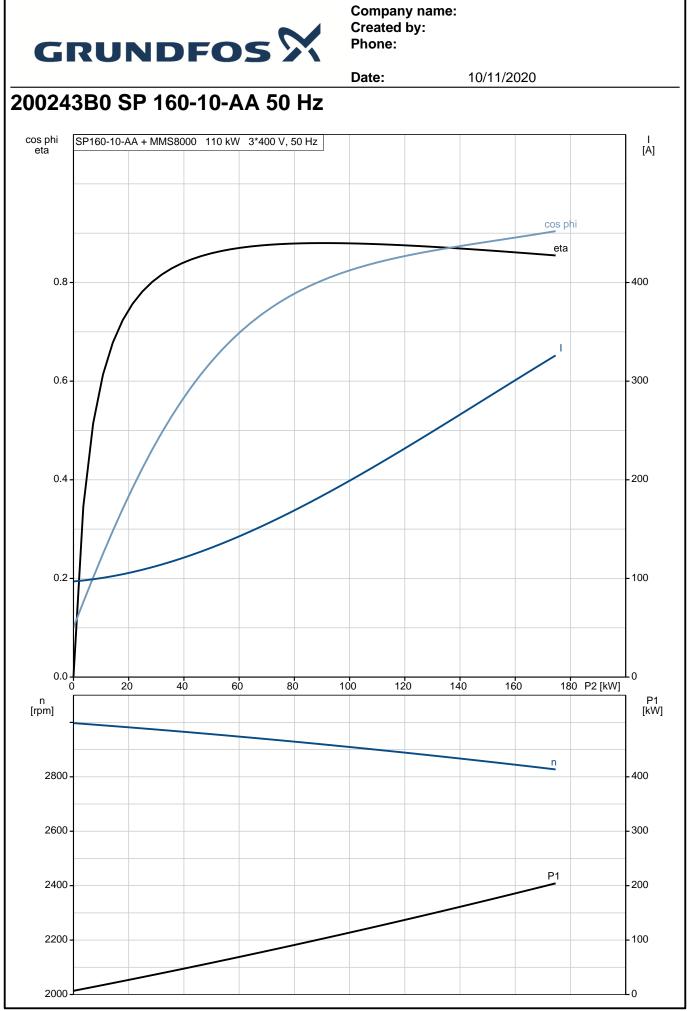


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Company name: Created by: Phone:

Date:10/11/2020DescriptionValueGross weight:517 kgShipping volume:0.698 m³Country of origin:DKCustom tariff no.:84137029



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