

Company name: Created by: Phone:

| Descrip | | | | 10/11/2020 | |
|--|--|---|---|--|-----------|
| • | otion | | | | |
| SP 160- | -5 | | | | |
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| Droduct | No : 20024205 | Note! Product p | icture may differ from | actual product | |
| FIGURE | No.: 20024305 | | | | |
| Submer | sible borehole pump, su | itable for pumpin | g clean water. Can | be installed vertically or horizontally | /. All st |
| | ents are made in stainle drinking water approval. | ss steel, EN 1.43 | 601 (AISI 304), that | ensures high corrosive resistance. | i his pi |
| The pun | np is fitted with a 63 kW | MMS8000 motor | with sand shield, v | water-lubricated journal bearings and | d a volu |
| compen | sating diaphragm. The r | ewindable motor | contruction allows | complete access to the windings for ous operations (S1). Suitable for | r easy |
| tempera | atures up to 50 °C. The n | notor is fitted with | a mechanical sha | ft seal. | |
| | | nperature sensor | . If temperature mo | nitoring is desired, a Pt100 or Pt100 |)0 sens |
| can be f | itted. tor is for direct-on-line st | arting (DOL) | | | |
| THE HIU | | aning (DOL). | | | |
| | | | | | |
| Furthe | er product details | | | | |
| The pun | np is suitable for applica | tions similar to th | e following: | | |
| The pun - ra | np is suitable for applica aw-water supply | tions similar to th | e following: | | |
| The pun - ra - ir - g | np is suitable for applica aw-water supply rigation proundwater lowering | tions similar to th | e following: | | |
| The pun - ra - ir - g - p | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting | tions similar to th | e following: | | |
| The pun - ra - ir - g - p - fo | np is suitable for applica aw-water supply rigation proundwater lowering | tions similar to th | e following: | | |
| The pun - ra - ir - g - p - fo Pump | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting puntain applications. | | - | in stainless steel which makes them | n corro: |
| The pun - ra - ir - g - p - fo Pump All pump and wea | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting ountain applications. o surfaces that are in con ar-resistant. The corrosic | ntact with pumpe on diagram below | d liquids are made shows the capabil | lities of the pump and motor in relation | |
| The pun - ra - ir - g - p - fo Pump All pump and weatemperate | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting puntain applications. | ntact with pumpe on diagram below and the concentra | d liquids are made shows the capabil | lities of the pump and motor in relation | |
| The pun - ra - ir - g - p - fo Pump All pump and wea | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosic ature in Celsius (y-axis) a | ntact with pumpe on diagram below | d liquids are made shows the capabil | lities of the pump and motor in relation | |
| The pun - ra - ir - g - p - fr Pump All pump and weather temperations | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosic ature in Celsius (y-axis) a | ntact with pumpe on diagram below and the concentra | d liquids are made shows the capabil | lities of the pump and motor in relation ppm (x-axis). | |
| The pun - ra - ir - g - p - fo Pump All pump and weather temperations | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosic ature in Celsius (y-axis) a | ntact with pumpe on diagram below and the concentra | d liquids are made shows the capabil | lities of the pump and motor in relation ppm (x-axis). | |
| The pun - ra - ir - g - p - fo Pump All pump and weatemperation | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosic ature in Celsius (y-axis) a | EN 1.4301 | d liquids are made shows the capabil | lities of the pump and motor in relation ppm (x-axis). | |
| The pun - ra - ir - g - p - fa Pump All pump and weatemperation | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosic ature in Celsius (y-axis) a | EN 1.4301 | d liquids are made shows the capabil | lities of the pump and motor in relation ppm (x-axis). | |
| The pundaments of the pundame | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosic ature in Celsius (y-axis) a | Intact with pumpe on diagram below and the concentra EN 1.4301 | d liquids are made shows the capabil | lities of the pump and motor in relation ppm (x-axis). | |
| The pun - r_{i} - r_{i} - r_{j} - p_{i} - r_{j} - | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosic ature in Celsius (y-axis) a | ntact with pumpe on diagram below and the concentra EN 1.4301 | d liquids are made shows the capabil | lities of the pump and motor in relation ppm (x-axis). | |
| The pun - ra - g - p - fo Pump All pump and weather temperations - for - for | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosic ature in Celsius (y-axis) a | EN 1.4301 | d liquids are made shows the capabil | lities of the pump and motor in relation ppm (x-axis). | |
| The pun - r_{i} - r_{i} - r_{j} - p_{i} - r_{j} - | np is suitable for applica aw-water supply rrigation proundwater lowering pountain applications. o surfaces that are in con ar-resistant. The corrosid ature in Celsius (y-axis) a | ntact with pumpe on diagram below and the concentra EN 1.4301 | d liquids are made shows the capabil ation of chloride in | lities of the pump and motor in relative ppm (x-axis). | |
| The pundament of the p | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosid ature in Celsius (y-axis) a | ntact with pumpe on diagram below and the concentration EN 1.4301 100 90 80 70 60 70 40 20 100 20 100 100 20 1000 1000 1000 1000 1000 1000 1 | d liquids are made shows the capabil ation of chloride in 0 4000 6000 8000 1200 | ities of the pump and motor in relative ppm (x-axis). EN 1.4301 Image: Book of the pump and motor in relative ppm (x-axis). | on to th |
| The pundaments of the pundamen | np is suitable for applica aw-water supply rrigation proundwater lowering pountain applications. o surfaces that are in con ar-resistant. The corrosid ature in Celsius (y-axis) a | ntact with pumpe on diagram below and the concentra EN 1.4301 100 0 90 0 90 0 90 0 90 0 90 0 90 0 9 | d liquids are made shows the capabil ation of chloride in 4000 6000 8000 1200 R (Nitrile-Butadien | ities of the pump and motor in relative ppm (x-axis). EN 1.4301 EN 1.4301 EN 1.6000 20000 e Rubber) which ensures good wear | on to th |
| The pundaments of the pundamen | np is suitable for applica aw-water supply rrigation proundwater lowering pountain applications. o surfaces that are in con ar-resistant. The corrosid ature in Celsius (y-axis) a | ntact with pumpe on diagram below and the concentra EN 1.4301 100 0 00 1800 2000 0 0 are made of NB rvals. | d liquids are made shows the capabil ation of chloride in p 4000 4000 6000 8000 1200 9R (Nitrile-Butadien high content of hyde | lities of the pump and motor in relation oppm (x-axis). | on to th |
| The pundaments of the pundamen | np is suitable for applica aw-water supply rrigation proundwater lowering pressure boosting pountain applications. o surfaces that are in con ar-resistant. The corrosid ture in Celsius (y-axis) a | ntact with pumpe on diagram below and the concentra EN 1.4301 100 0 00 1800 2000 0 0 are made of NB rvals. | d liquids are made shows the capabil ation of chloride in p 4000 4000 6000 8000 1200 9R (Nitrile-Butadien high content of hyde | lities of the pump and motor in relation oppm (x-axis). | on to th |



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 Date:
 10/11/2020

 h sand flush channels that minimise wear. As

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

Description

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.

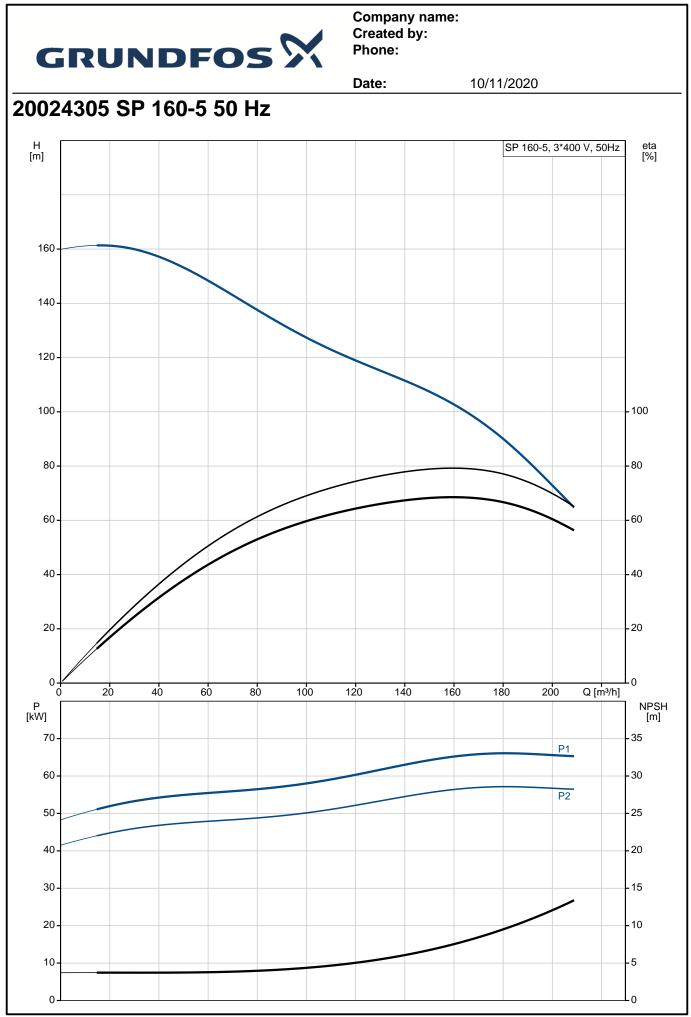
Liquid:

| Pumped liquid: Maximum liquid temperature: Max liquid t at 0.15 m/sec: Max liquid t at 0.5 m/sec: Selected liquid temperature: Density: | Water 45 °C 40 °C 45 °C 20 °C 998.2 kg/m ³ |
|--|---|
| Technical: Pump speed on which pump dat Rated flow: Rated head: Shaft seal for motor: Curve tolerance: Motor version: | a are based: 2900 rpm 160 m³/h 101 m SIC/SIC ISO9906:2012 3B T45 |
| Materials: | |
| Pump: | Stainless steel EN 1.4301 AISI AISI 304 |
| Impeller: Motor: | Stainless steel EN 1.4301 AISI AISI 304 Cast iron DIN WNr. 0.6025 ASTM 35-40 |
| Installation: | |
| Pump outlet: | RP6 |
| Motor diameter: | 8 inch |
| Electrical data: Motor type: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Start. method: | MMS8000 63 kW 63 kW 50 Hz 3 x 380-400-415 V 132-132-130 A 540-570-590 % 0.89-0.83-0.82 2900-2920-2910 rpm direct-on-line |



Company name: Created by:

| GRUNDF | DS X | Phone: | | |
|--|----------------------|--------|------------|--|
| | | Date: | 10/11/2020 | |
| Description | | | | |
| Enclosure class (IEC 34-5): | IP68 | | | |
| Built-in temp. transmitter: | no | | | |
| Motor No: | 96530184 PE2/PA | | | |
| Windings: | FEZ/FA | | | |
| Others: | | | | |
| Minimum efficiency index, MEI | ≥: | | | |
| ErP status: | EuP Standalone/ | Prod. | | |
| Net weight: | 279 kg | | | |
| Gross weight: | 340 kg | | | |
| Shipping volume: | 0.434 m ³ | | | |
| Country of origin: Custom tariff no.: | GB | | | |
| Custom tann no | 84137029 | | | |
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Value

SP 160-5

20024305

2900 rpm

5700831507413

Description

Product name: Product No:

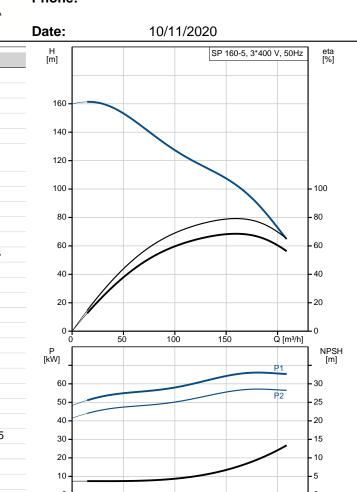
EAN number:

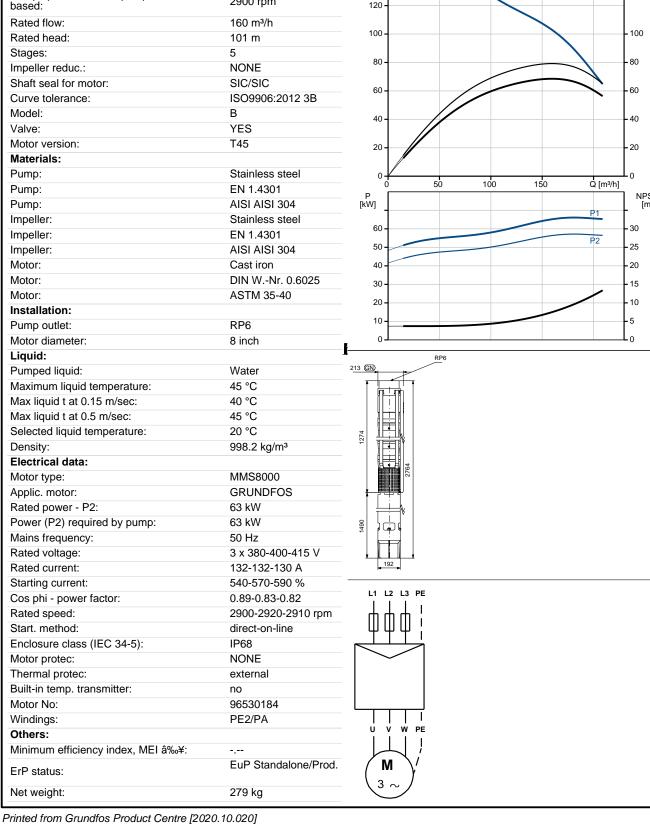
Technical:

General information:

Pump speed on which pump data are

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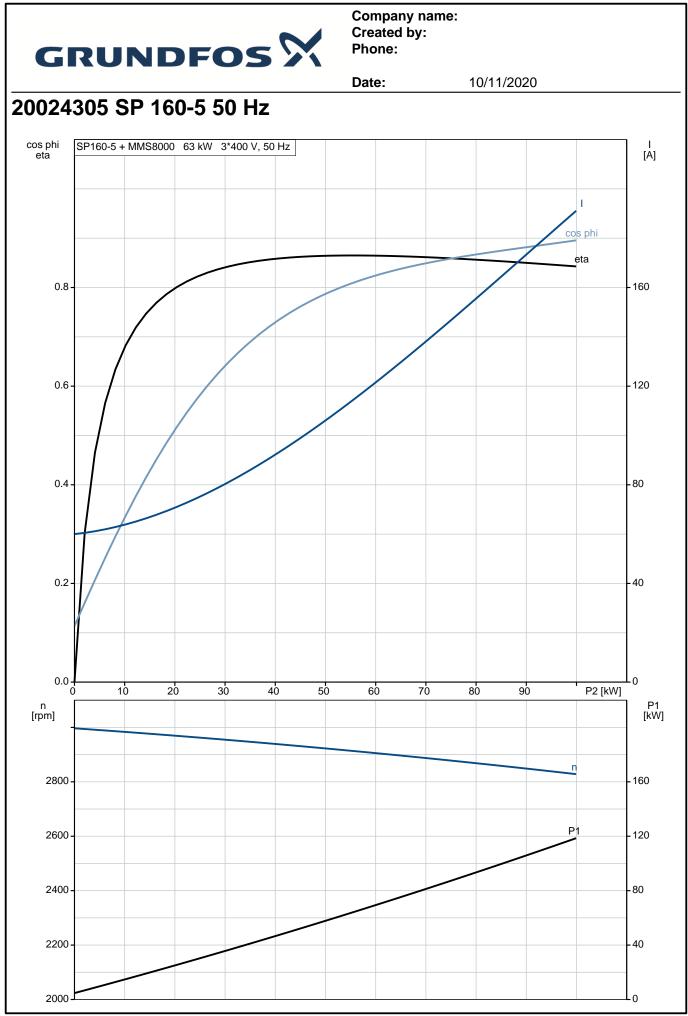






Company name: Created by: Phone:

Date:10/11/2020DescriptionValueGross weight:340 kgShipping volume:0.434 m³Country of origin:GBCustom tariff no.:84137029



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