

Date: 13/02/2025

Qty. | Description

1 BM 46-6 NBR



Note! Product picture may differ from actual product

Product No.: 98490845

BM is an encapsulated submersible pump that is suitable for applications where a high pressure is required. Therefore, BM is ideal for water treatment, liquid transfer, pressure boosting and closed circulation systems with a high static pressure.

BM pumps are available in four different versions (standard, N-version, NE-version, and R-version), in various sizes, and with a large variety in the number of impellers.

The range covers BM 3A to BM 215, a total of twelve sizes.

Depending on its size and frequency, a BM pump can reach a flow rate of 265 or 310 m3/h.

BM pumps can increase the system pressure up to 82.7 bar.

The pump is supplied with an asynchronous motor, Victaulic connections, a straight or 90° bent pipe for BM 3A, BM 5A and BM 9 pumps and a straight pipe for BM 18 and above.

The motor is protected by output filters against overvoltage and increased operating temperature.

As a result, BM is very reliable and durable.

The compact design ensures easy maintenance and alignment of the pump.

The stainless-steel pump and motor housing ensure an excellent resistance against different types of liquids. The R-version is designed to be highly efficient against corrosive liquids.

Three different types of asynchronous motors are available for BM pumps: MS 4000, MS 6000 and MMS 8000.

The enclosure class is IP68.

The motor power ranges from 0.75 to 92 kW.

The motor is controlled by a frequency converter and protected by Pt100 sensors.

The frequency converter is sold as a separate accessory and must be purchased along with the pump.

We recommend a Grundfos CUE frequency converter; however, frequency converters from alternative suppliers can be used as well.

Liquid:

Pumped liquid: Water
Maximum liquid temperature: 104 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Rated flow: 242 US GPM Rated head: 103.6 psi

Curve tolerance: ISO9906:2012 3B

Materials:

Pump: Stainless steel

DIN W.-Nr. 1.4301

AISI 304

Impeller: Stainless steel

EN 1.4301 AISI 304



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Qty. | Description

Motor: Stainless steel

DIN W.-Nr. 1.4301

AISI 304

Sleeve: Stainless steel

AISI 304 EN 1.4301

Installation:

Maximum operating pressure: 1199.46 psi
Maximum permissible inlet pressure: 725.19 psi
Maximum outlet pressure: 1189.31 psi
Pipe connection standard: PJE
Pipe connection: 89 mm

Electrical data:

Rated power - P2: 20 HP Mains frequency: 60 Hz

Rated voltage: 3 x 440-460-480 V

Service factor: 1.15

Rated current: 33.5-32.5-32.0 A

Maximum current consumption: 33.5 A

Starting current: 520-570-610 %
Cos phi - power factor: 0.85-0.84-0.81
Start. method: direct-on-line

Enclosure class (IEC 34-5): IP66
Built-in temp. transmitter: yes
Motor No: 78195016

Others:

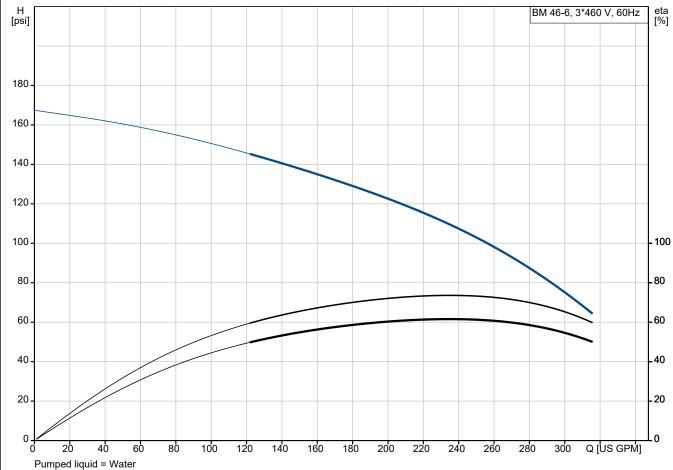
Minimum efficiency index, MEI ≥: 0.40
Net weight: 232 lb
Gross weight: 327 lb
Shipping volume: 13.2 ft³
Country of origin: DK

Custom tariff no.: 8413.70.2004

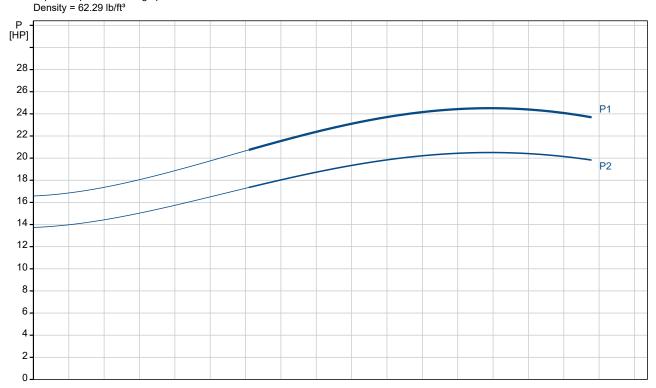


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98490845 BM 46-6 NBR 60 Hz



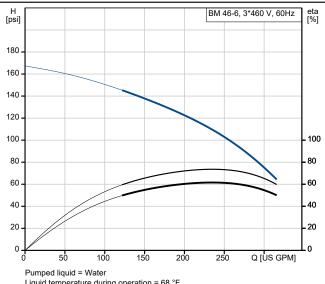
Liquid temperature during operation = 68 °F



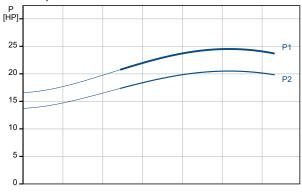


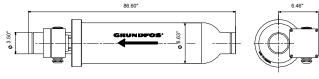
Date: 13/02/2025

| Description Value General information: BM 46-6 NBR Product No: 98490845 EAN number: 5711496030697 Technical: Rated flow: Rated flow: 242 US GPM Rated head: 103.6 psi Stages: 6 Curve tolerance: ISO9906:2012 3B Model: E Materials: E Pump: Stainless steel DIN W-Nr. 1.4301 AISI 304 Impeller: Stainless steel EN 1.4301 AISI 304 Motor: Stainless steel DIN W-Nr. 1.4301 AISI 304 Motor: Stainless steel DIN W-Nr. 1.4301 AISI 304 Keeve: Stainless steel AISI 304 EN 1.4301 Installation: Maximum operating pressure: Maximum operating pressure: 1199.46 psi Maximum operating pressure: 1189.31 psi Pipe connection 89 mm Liquid: Water Pumped liquid: | | |
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| Materials: Pump: Stainless steel | Stages: | 6 |
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| DIN WNr. 1.4301 | Materials: | |
| AISI 304 Impeller: | Pump: | Stainless steel |
| Impeller: Stainless steel | <u> </u> | DIN WNr. 1.4301 |
| EN 1.4301 AISI 304 Motor: Stainless steel DIN WNr. 1.4301 AISI 304 Code for rubber: NBR Sleeve: Stainless steel AISI 304 EN 1.4301 Installation: Maximum operating pressure: Maximum operating pressure: Maximum permissible inlet pressure: Maximum outlet pressure: 1189.31 psi Pipe connection standard: PJE Pipe connection: By mm Liquid: Pumped liquid: Water Maximum liquid temperature: Density: Electrical data: Rated power - P2: Mains frequency: 60 Hz Rated voltage: 3 x 440-460-480 V Service factor: 1.15 Rated current: Maximum current consumption: 33.5 A Starting current: Cos phi - power factor: Density: Enclosure class (IEC 34-5): De6 Thermal protec: Enclosure class (IEC 34-5): P66 Thermal protec: Enclosure class (IEC 34-5): P66 Cothers: Minimum efficiency index, MEI ≥: O.40 Net weight: Gross weight: Saz Ib Shipping volume: Start Start | | AISI 304 |
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| Motor: Stainless steel | | |
| DIN WNr. 1.4301 | Motor: | |
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| AISI 304 | | .,, |
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| Maximum liquid temperature:104 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:20 HPRated power - P2:20 HPMains frequency:60 HzRated voltage:3 x 440-460-480 VService factor:1.15Rated current:33.5-32.5-32.0 AMaximum current consumption:33.5 AStarting current:520-570-610 %Cos phi - power factor:0.85-0.84-0.81Start. method:direct-on-lineEnclosure class (IEC 34-5):IP66Thermal protec:externalBuilt-in temp. transmitter:yesMotor No:78195016Others:0.40Net weight:232 lbGross weight:327 lbShipping volume:13.2 ft³Country of origin:DK | - | |
| Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: 20 HP Rated power - P2: 20 HP Mains frequency: 60 Hz Rated voltage: 3 x 440-460-480 V Service factor: 1.15 Rated current: 33.5-32.5-32.0 A Maximum current consumption: 33.5 A Starting current: 520-570-610 % Cos phi - power factor: 0.85-0.84-0.81 Start. method: direct-on-line Enclosure class (IEC 34-5): IP66 Thermal protec: external Built-in temp. transmitter: yes Motor No: 78195016 Others: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | | |
| Density: 62.29 lb/ft³ Electrical data: 20 HP Rated power - P2: 20 HP Mains frequency: 60 Hz Rated voltage: 3 x 440-460-480 V Service factor: 1.15 Rated current: 33.5-32.5-32.0 A Maximum current consumption: 33.5 A Starting current: 520-570-610 % Cos phi - power factor: 0.85-0.84-0.81 Start. method: direct-on-line Enclosure class (IEC 34-5): IP66 Thermal protec: external Built-in temp. transmitter: yes Motor No: 78195016 Others: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | | |
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| Mains frequency: 60 Hz Rated voltage: 3 x 440-460-480 V Service factor: 1.15 Rated current: 33.5-32.5-32.0 A Maximum current consumption: 33.5 A Starting current: 520-570-610 % Cos phi - power factor: 0.85-0.84-0.81 Start. method: direct-on-line Enclosure class (IEC 34-5): IP66 Thermal protec: external Built-in temp. transmitter: yes Motor No: 78195016 Others: Minimum efficiency index, MEI ≥: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | Electrical data: | |
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| Service factor: 1.15 Rated current: 33.5-32.5-32.0 A Maximum current consumption: 33.5 A Starting current: 520-570-610 % Cos phi - power factor: 0.85-0.84-0.81 Start. method: direct-on-line Enclosure class (IEC 34-5): IP66 Thermal protec: external Built-in temp. transmitter: yes Motor No: 78195016 Others: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | Mains frequency: | 60 Hz |
| Rated current: 33.5-32.5-32.0 A Maximum current consumption: 33.5 A Starting current: 520-570-610 % Cos phi - power factor: 0.85-0.84-0.81 Start. method: direct-on-line Enclosure class (IEC 34-5): IP66 Thermal protec: external Built-in temp. transmitter: yes Motor No: 78195016 Others: Minimum efficiency index, MEI ≥: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | Rated voltage: | 3 x 440-460-480 V |
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| Starting current: 520-570-610 % Cos phi - power factor: 0.85-0.84-0.81 Start. method: direct-on-line Enclosure class (IEC 34-5): IP66 Thermal protec: external Built-in temp. transmitter: yes Motor No: 78195016 Others: Minimum efficiency index, MEI ≥: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | Rated current: | 33.5-32.5-32.0 A |
| Cos phi - power factor:0.85-0.84-0.81Start. method:direct-on-lineEnclosure class (IEC 34-5):IP66Thermal protec:externalBuilt-in temp. transmitter:yesMotor No:78195016Others:Winimum efficiency index, MEI ≥:0.40Net weight:232 lbGross weight:327 lbShipping volume:13.2 ft³Country of origin:DK | Maximum current consumption: | 33.5 A |
| Cos phi - power factor:0.85-0.84-0.81Start. method:direct-on-lineEnclosure class (IEC 34-5):IP66Thermal protec:externalBuilt-in temp. transmitter:yesMotor No:78195016Others:Winimum efficiency index, MEI ≥:0.40Net weight:232 lbGross weight:327 lbShipping volume:13.2 ft³Country of origin:DK | • | 520-570-610 % |
| Start. method: Enclosure class (IEC 34-5): Thermal protec: Built-in temp. transmitter: Wotor No: Others: Minimum efficiency index, MEI ≥: Met weight: Gross weight: Shipping volume: Country of origin: IP66 external yes 78195016 0.40 0.40 1.32 lb 1.32 ft³ Country of origin: DK | _ | 0.85-0.84-0.81 |
| Enclosure class (IEC 34-5): IP66 Thermal protec: external Built-in temp. transmitter: yes Motor No: 78195016 Others: Minimum efficiency index, MEI ≥: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | | |
| Thermal protec: external Built-in temp. transmitter: yes Motor No: 78195016 Others: Minimum efficiency index, MEI ≥: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | | |
| Built-in temp. transmitter: yes Motor No: 78195016 Others: Minimum efficiency index, MEI ≥: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | | |
| Motor No:78195016Others:Minimum efficiency index, MEI ≥:0.40Net weight:232 lbGross weight:327 lbShipping volume:13.2 ft³Country of origin:DK | | |
| Others:Minimum efficiency index, MEI ≥:0.40Net weight:232 lbGross weight:327 lbShipping volume:13.2 ft³Country of origin:DK | | • |
| Minimum efficiency index, MEI ≥: 0.40 Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | | 70100010 |
| Net weight: 232 lb Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | | 0.40 |
| Gross weight: 327 lb Shipping volume: 13.2 ft³ Country of origin: DK | • | |
| Shipping volume: 13.2 ft³ Country of origin: DK | _ | |
| Country of origin: DK | _ | |
| · · · | · · · - | |
| Custom tariff no.: 8413.70.2004 | <u> </u> | |
| | Custom tariff no.: | 8413.70.2004 |



Pumped liquid = Water Liquid temperature during operation = 68 °F Density = 62.29 lb/ft³

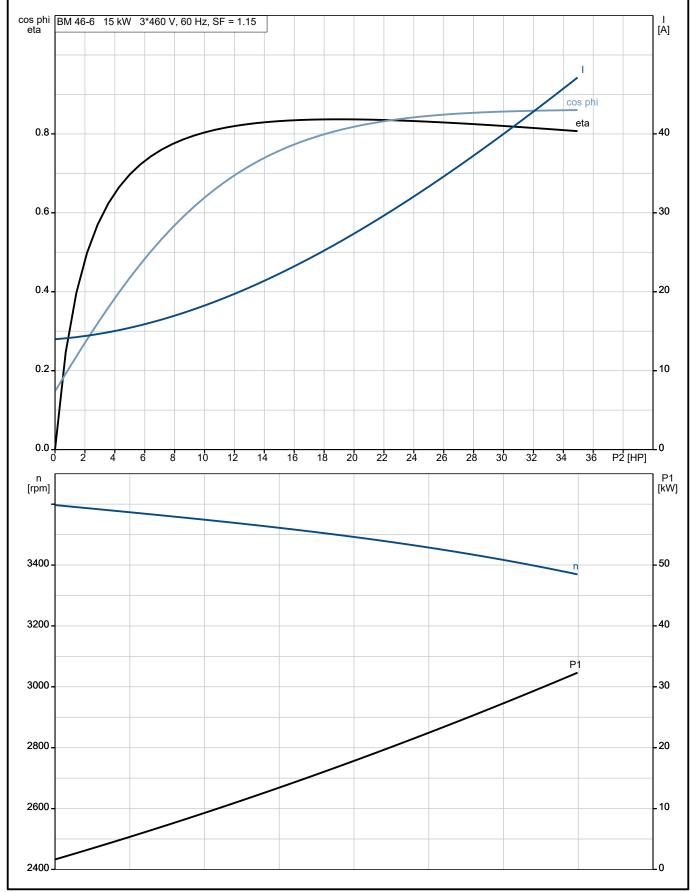






Date: 13/02/2025

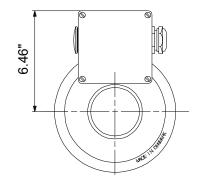
98490845 BM 46-6 NBR 60 Hz

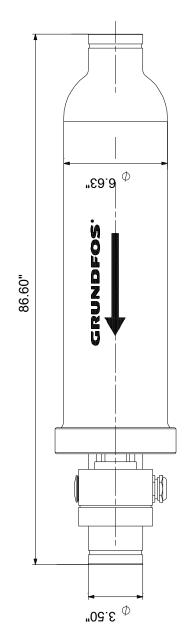




13/02/2025 Date:

98490845 BM 46-6 NBR 60 Hz





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