

Qty.	Description
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1	BM 77-13 NBR
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Note! Product picture may differ from actual product

Product No.: [16DS3613](#)

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/ft ³

Technical:

Rated flow:	405 US GPM
Rated head:	319.5 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



Company name:

Created by:

Phone:

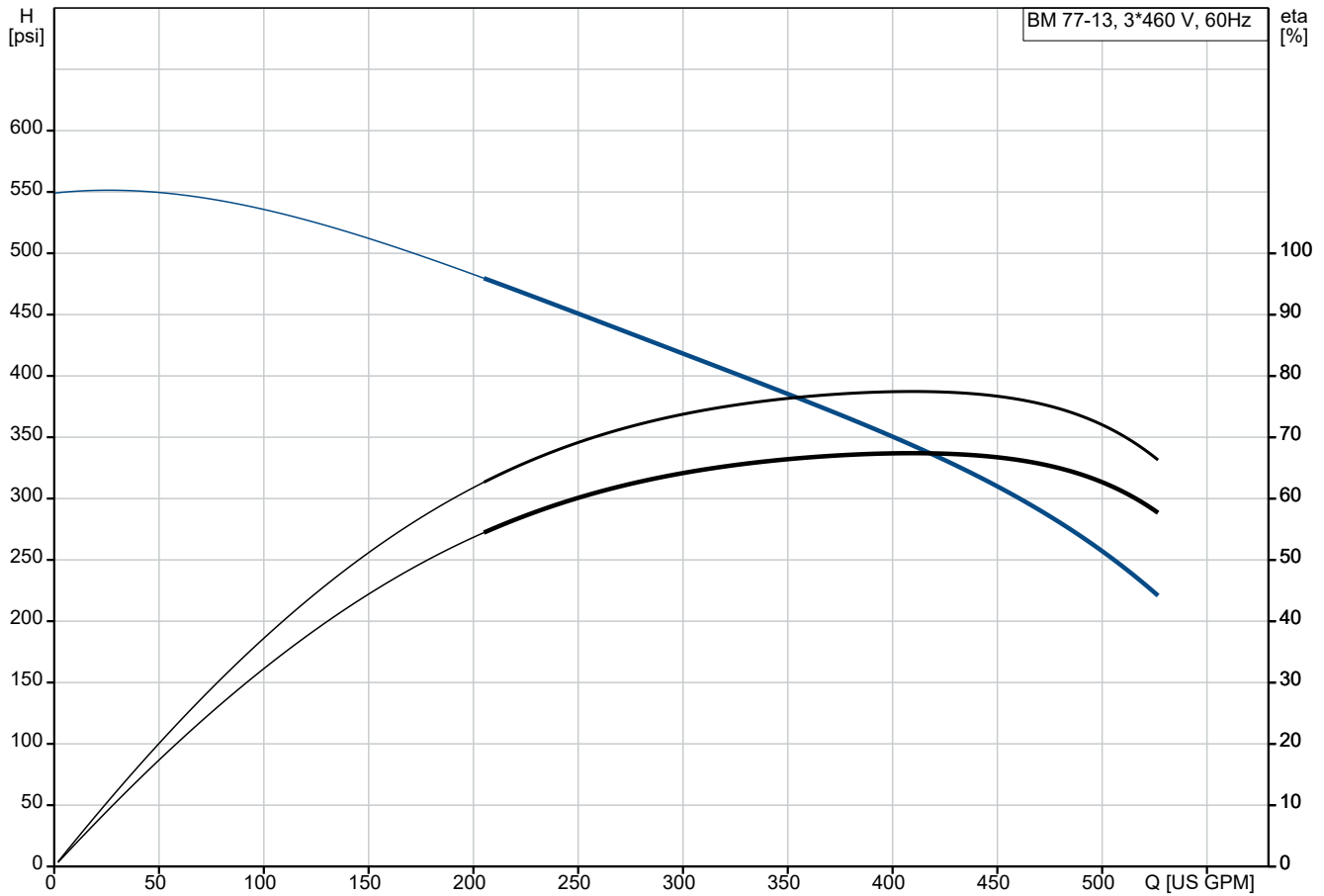
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17/02/2025

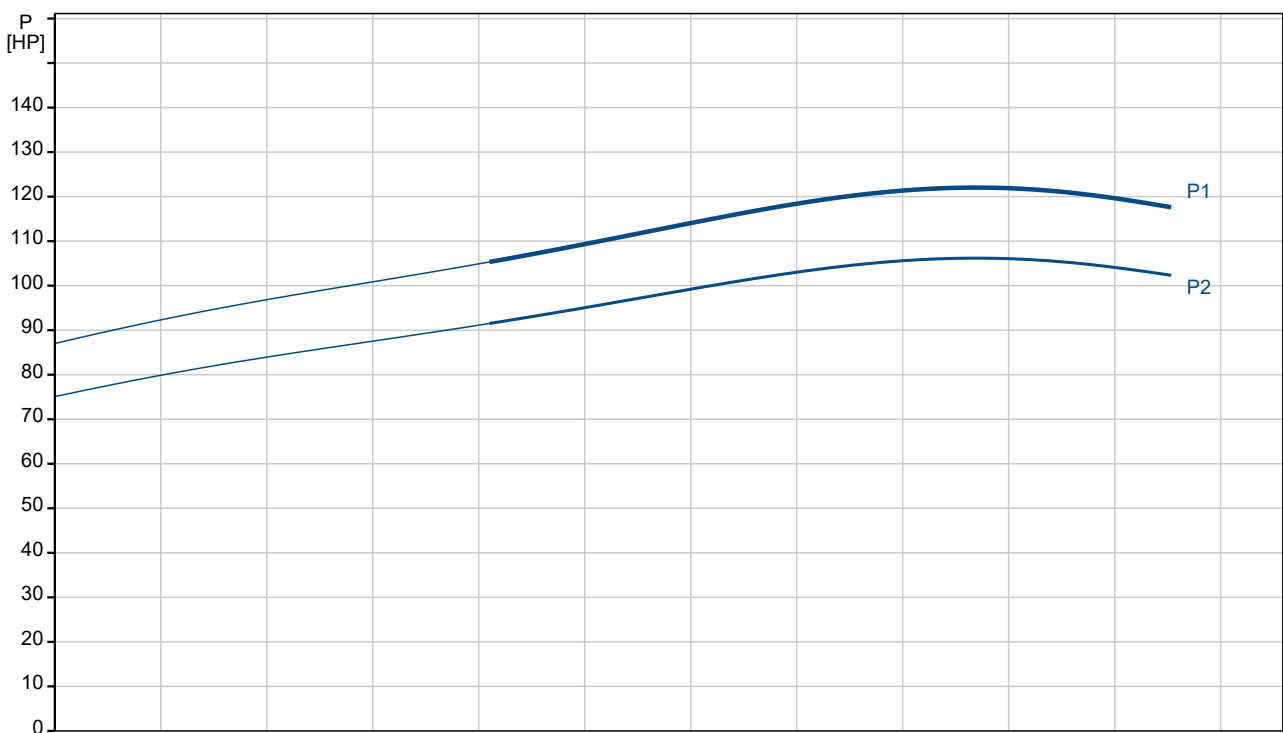
Qty.	Description
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1	Motor: Cast iron DIN W.-Nr. 0.6025 Sleeve: Stainless steel AISI 304 EN 1.4301 Installation: Maximum operating pressure: 1199.46 psi Maximum permissible inlet pressure: 362.59 psi Maximum outlet pressure: 1189.31 psi Pipe connection standard: PJE Pipe connection: 139 mm Electrical data: Rated power - P2: 100 HP Mains frequency: 60 Hz Rated voltage: 3 x 460 V Service factor: 1.15 Rated current: 150 A Starting current: 570 % Cos phi - power factor: 0.88 Start. method: direct-on-line Enclosure class (IEC 34-5): IP66 Built-in temp. transmitter: no Motor No: 96476893 Others: Minimum efficiency index, MEI ≥: -- Net weight: 931 lb Gross weight: 1230 lb Shipping volume: 54.4 ft³ Country of origin: DK Custom tariff no.: 8413.70.2004
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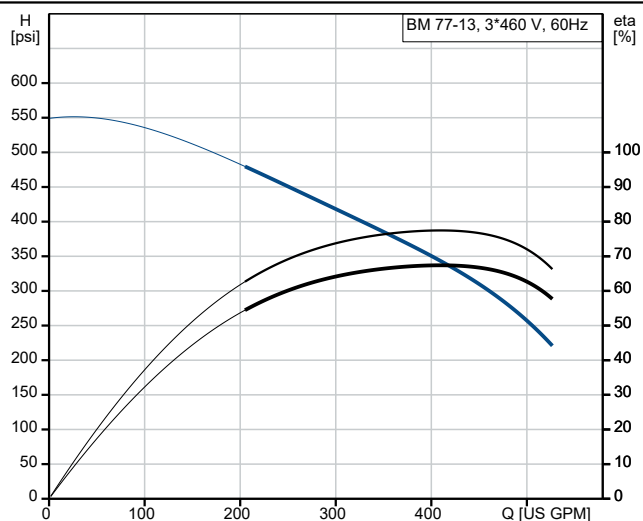
16DS3613 BM 77-13 NBR 60 Hz



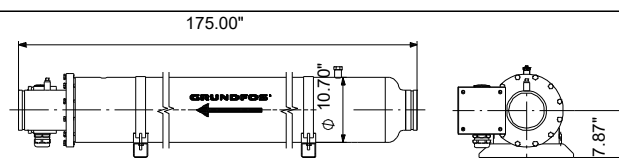
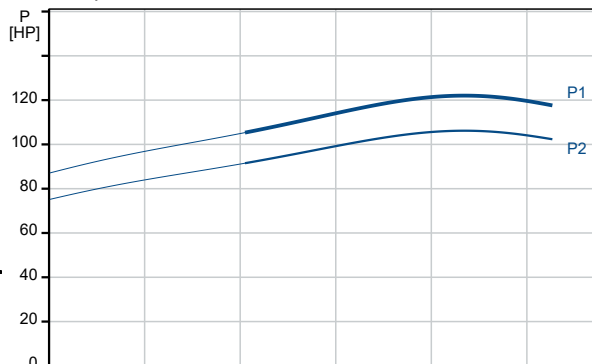
Pumped liquid = Water
 Liquid temperature during operation = 68 °F
 Density = 62.29 lb/ft³



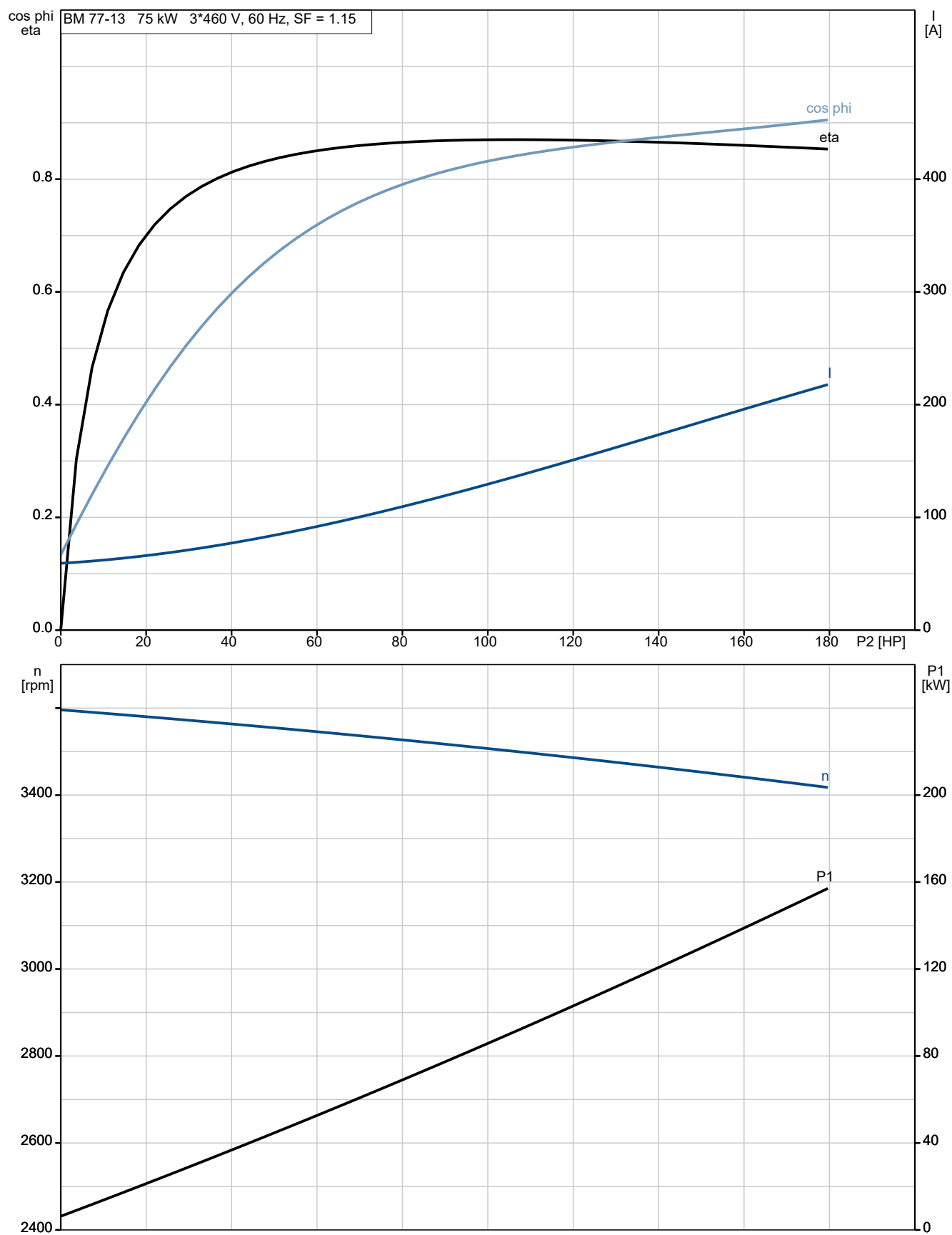
Description	Value
General information:	
Product name:	BM 77-13 NBR
Product No:	16DS3613
EAN number:	5711492337424
Technical:	
Rated flow:	405 US GPM
Rated head:	319.5 psi
Stages:	13
Curve tolerance:	ISO9906:2012 3B
Model:	D
Materials:	
Pump:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Motor:	Cast iron
	DIN W.-Nr. 0.6025
Code for rubber:	NBR
Sleeve:	Stainless steel
	AISI 304
	EN 1.4301
Installation:	
Maximum operating pressure:	1199.46 psi
Maximum permissible inlet pressure:	362.59 psi
Maximum outlet pressure:	1189.31 psi
Pipe connection standard:	PJE
Pipe connection:	139 mm
Liquid:	
Pumped liquid:	Water
Maximum liquid temperature:	104 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Rated power - P2:	100 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 460 V
Service factor:	1.15
Rated current:	150 A
Starting current:	570 %
Cos phi - power factor:	0.88
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP66
Thermal protec:	external
Built-in temp. transmitter:	no
Motor No:	96476893
Others:	
Minimum efficiency index, MEI ≥:	---
Net weight:	931 lb
Gross weight:	1230 lb
Shipping volume:	54.4 ft³
Country of origin:	DK
Custom tariff no.:	8413.70.2004



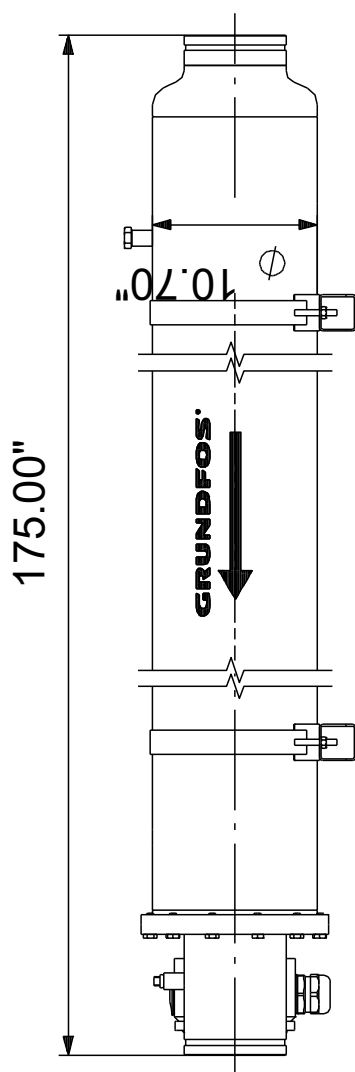
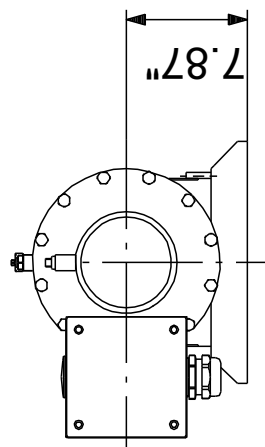
Pumped liquid = Water
Liquid temperature during operation = 68 °F
Density = 62.29 lb/ft³



16DS3613 BM 77-13 NBR 60 Hz

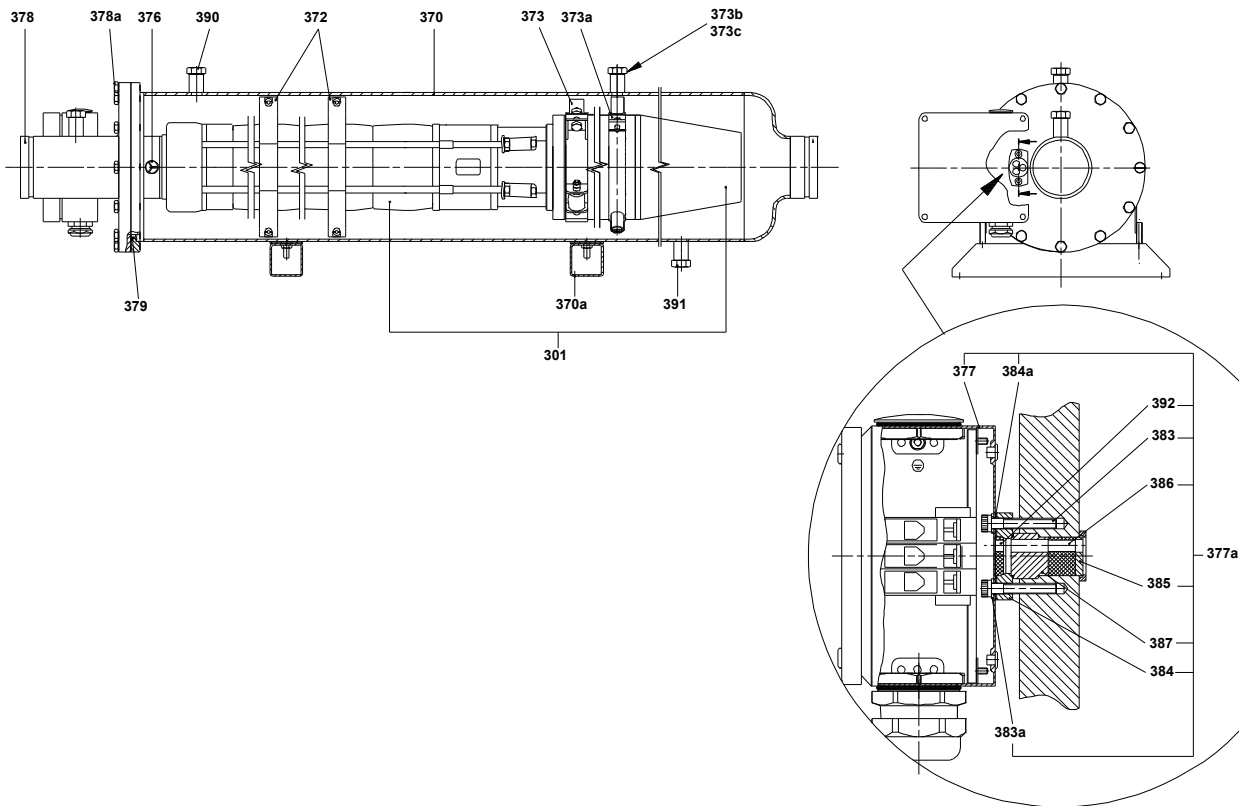


16DS3613 BM 77-13 NBR 60 Hz



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

(TM031117 1105)



Spare parts BM 77-13, Product No. 16DS3613
Produced After 1949 (production year and week number)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
-	Kit, Cable entry			99423487	1	pcs
66	Lock washer				2	pcs
378	Plug				1	pcs
383	Hex socket head cap screw				2	pcs
384a	Gasket				1	pcs
384	Clamp				1	pcs
386	Rubber plug				1	pcs
- 373a	Kit, Centrerling cpl.			96942832	1	pcs
19	Hex nut				4	pcs
22	Hex head screw				1	pcs
26c	Flat Washer				4	pcs
38	O-ring				1	pcs
56e	Hex nut				2	pcs
392a	Hex head bolt				2	pcs
+	Kit, Terminal box			99754544	1	pcs
-	Kit, Terminal box			99820108	1	pcs
377	Terminal box cpl.				1	pcs
	Bulk, Center part (4 PC)			98587184	4	pcs
-	Pump				1	pcs
-	Kit, Bearing			96436079	1	pcs
204	Bearing ring				4	pcs
-	Kit, Bearing housing, upper			96520742	1	pcs
204	Bearing ring				2	pcs
205	Bearing housing, upper				1	pcs
-	Kit, Cable			96546829	1	pcs
220	Motor cable				3	pcs
-	Kit, Cable entry			96537636	1	pcs
247	Hex socket head cap screw				1	pcs
248	Hex socket head cap screw				2	pcs
250c	Cable gland				1	pcs
250b	Cable ring				2	pcs
250a	Grommet				1	pcs
250	Flange, cable gland				1	pcs
+	Kit, Cable joint			96546813	1	pcs
-	Kit, Gaskets			96545326	1	pcs
212	Diaphragm				1	pcs
222b	Seal washer				2	pcs
224	O-ring				2	pcs
234	Gasket				2	pcs
-	Kit, Lower support			96458142	1	pcs
204	Bearing ring				2	pcs
236	Bearing housing, lower				1	pcs
242a	Hex socket head cap screw				4	pcs
242	Spacer				1	pcs
-	Kit, Miscellaneous			96436084	1	pcs
216a	Diverting disc				2	pcs
216a	Washer				1	pcs
216a	Washer				1	pcs
222a	Air vent valve				1	pcs
223a	Plug				1	pcs
-	Kit, Shaft seal			96524374	1	pcs
215	Socket set screw				3	pcs
226	Mechanical seal				1	pcs

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
227	Seal ring				1	pcs
228	Lock washer				1	pcs
229	Neck ring				1	pcs
-	Kit, Thrust bearing			96507237	1	pcs
203c	Hex socket head cap screw				4	pcs
203	Thrust bearing part				1	pcs
206	static bearing ring				1	pcs
216b	Hex socket countersunk screw				1	pcs
216	Washer				1	pcs
221	Kit, Winding			96279305	1	pcs
221	Kit, Winding			96279371	1	pcs
202	Shaft w/rotor			99097926	1	pcs
204	Bearing ring			96591368	2	pcs
213	End shield			98299168	1	pcs
214a	Bulk, Nut (10 PC)			92501707	4	pcs
222b	Bulk, Seal washer (20 PC)			99342582	2	pcs
224	O-ring			96592244	2	pcs
234	Bulk, Gasket (10 PC)			96535001	2	pcs
-	Pump w/o motor				1	pcs
-	Kit, Wear parts			96440258	1	pcs
1d	O-ring				1	pcs
3	Valve seat				1	pcs
6b	Bearing				1	pcs
7	Seal ring				14	pcs
8b	Stop ring				1	pcs
8a	Washer				1	pcs
8	Bearing				14	pcs
11c	Nut				1	pcs
72	Wear ring				14	pcs
1	Valve casing cpl.			96551515	1	pcs
- 4	Chamber cpl.			96551405	1	pcs
6b	Bulk, Bearing (5 PC)			98183195	1	pcs
7	Bulk, Seal ring (10 PC)			96603185	1	pcs
- 9	Bulk, Chamber cpl. (5 PC)			97757851	12	pcs
7	Bulk, Seal ring (10 PC)			96603185	1	pcs
8	Bulk, Bearing (2 PC)			96537849	1	pcs
8	Bulk, Bearing (20 PC)			96535348	1	pcs
+ 9	Chamber cpl.			96551404	12	pcs
13	Bulk, Impeller cpl. (5 PC)			97657776	12	pcs
13	Impeller cpl.			97657775	12	pcs
14	Suction interconnector			96551513	1	pcs
+ 16	Shaft cpl.			97758914	1	pcs
+ 17	Strap cpl.			97895203	4	pcs
19	Bulk, Hex nut (4 PC)			99543975	4	pcs
71	Bulk, Flat Washer (10 PC)			96535009	4	pcs
+ 18	Bulk, Air vent screw cpl. (5 PC)			96547461	1	pcs
+ 18	Air vent screw cpl.			95061351	1	pcs
25	Bulk, Plug (10 PC)			96536013	2	pcs
25	Plug			95061733	2	pcs
26c	Bulk, Flat Washer (4 PC)			99262704	8	pcs
26c	Bulk, Flat Washer (10 PC)			99886930	8	pcs
38	Bulk, O-ring (10 PC)			99198813	3	pcs
38	Bulk, O-ring (50 PC)			99412883	3	pcs
56e	Bulk, Hex nut (10 PC)			99354425	4	pcs
376	Bypass valve cpl.			99064365	2	pcs
379	Bulk, O-ring (5 PC)			98642166	1	pcs