

Qty.	Description
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1	BM 77-4 NBR
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Note! Product picture may differ from actual product

Product No.: [16DS3604](#)

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:	97.97 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:

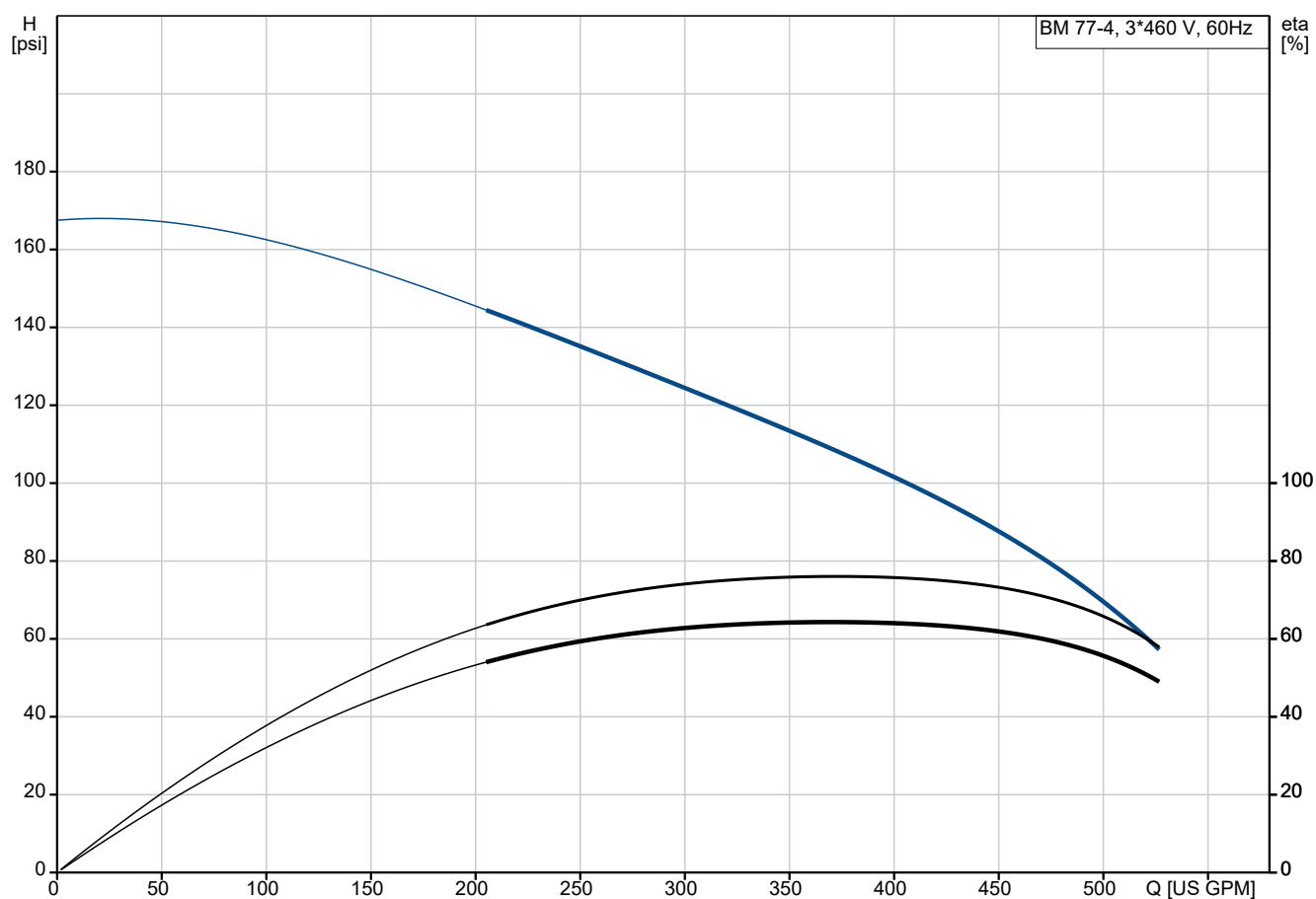
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17/02/2025

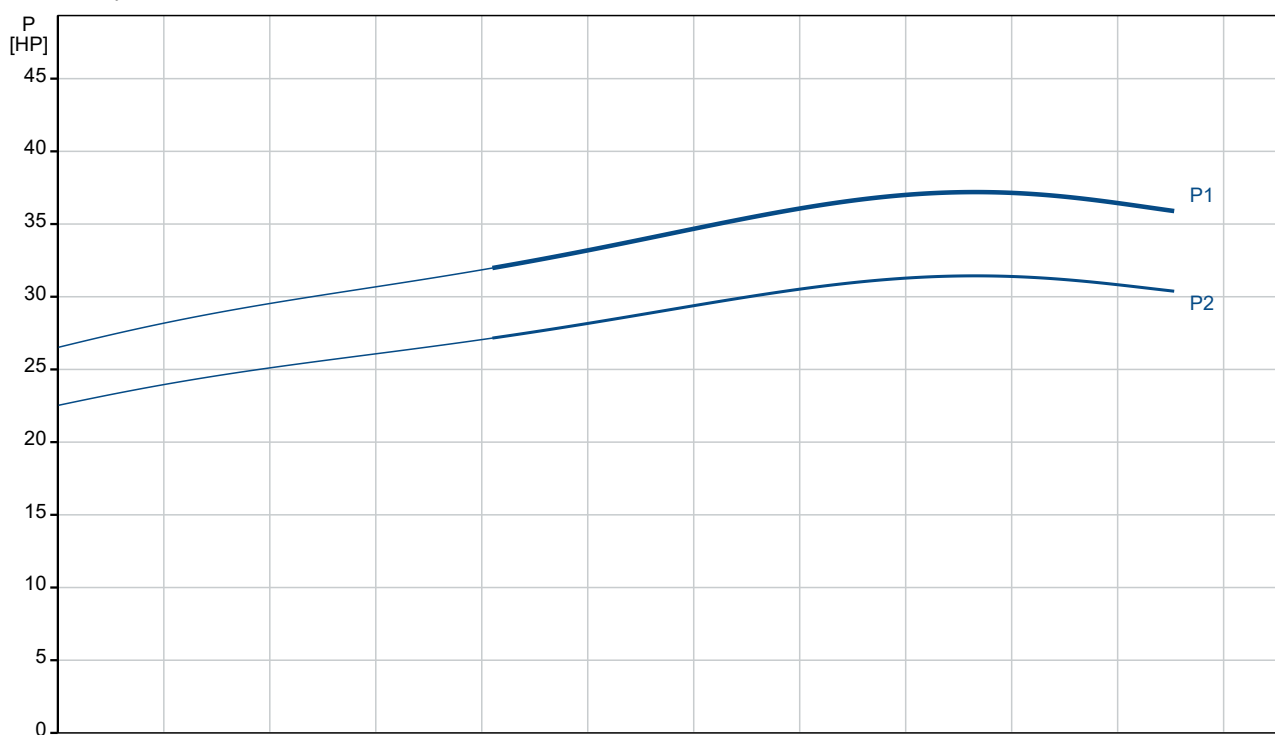
Qty.	Description
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1	Motor: Stainless steel DIN W.-Nr. 1.4301 AISI 304 Sleeve: Stainless steel AISI 304 EN 1.4301 Installation: Maximum operating pressure: 1199.46 psi Maximum permissible inlet pressure: 362.59 psi Maximum outlet pressure: 1189.31 psi Pipe connection standard: PJE Pipe connection: 139 mm Electrical data: Rated power - P2: 30 HP Mains frequency: 60 Hz Rated voltage: 3 x 440-460-480 V Service factor: 1.15 Rated current: 48.0-46.0-45.0 A Maximum current consumption: 48 A Starting current: 520-570-620 % Cos phi - power factor: 0.87-0.85-0.83 Start. method: direct-on-line Enclosure class (IEC 34-5): IP66 Built-in temp. transmitter: yes Motor No: 78195018 Others: Minimum efficiency index, MEI ≥: -- Net weight: 432 lb Gross weight: 613 lb Shipping volume: 32.1 ft³ Country of origin: DK Custom tariff no.: 8413.70.2004
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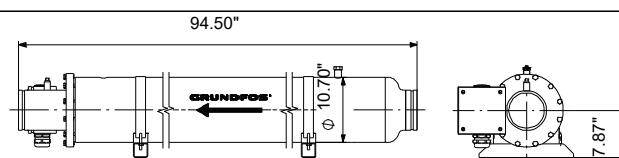
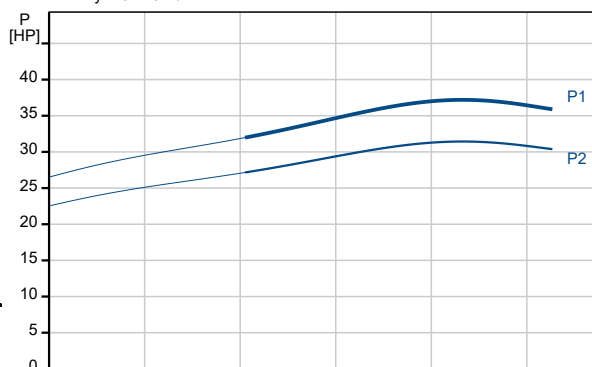
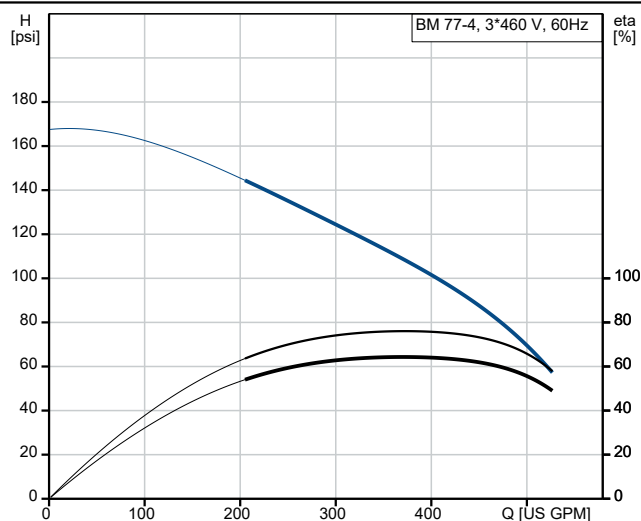
16DS3604 BM 77-4 NBR 60 Hz



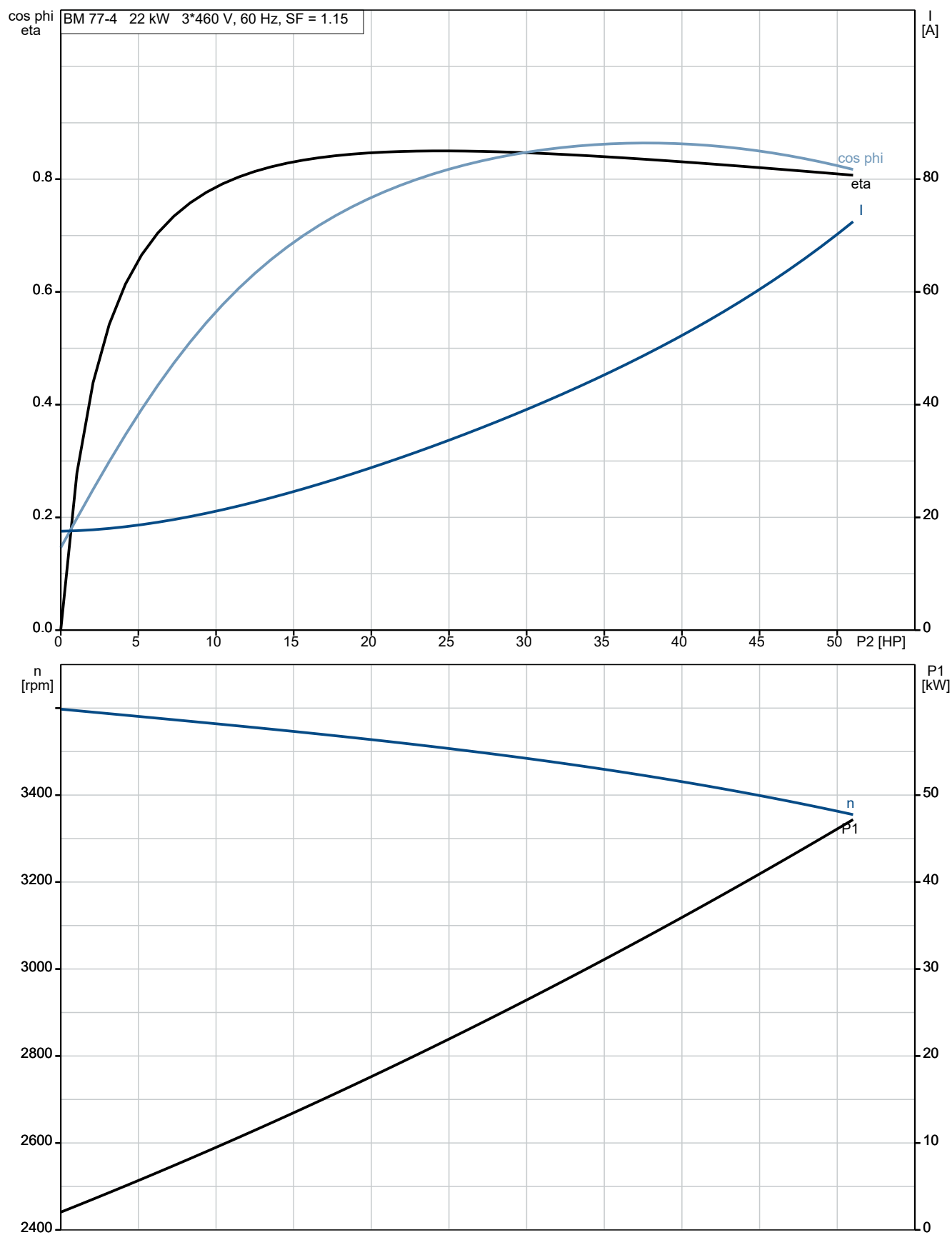
Pumped liquid = Water
 Liquid temperature during operation = 68 °F
 Density = 62.29 lb/ft³



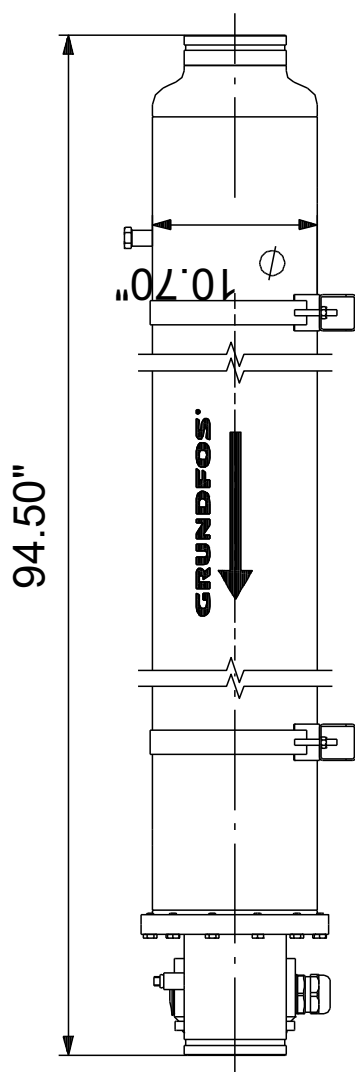
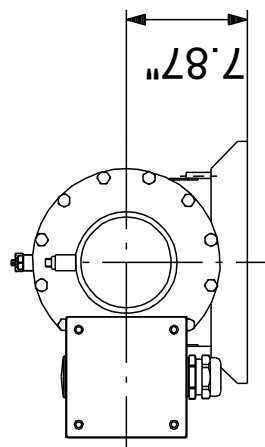
Description	Value
General information:	
Product name:	BM 77-4 NBR
Product No:	16DS3604
EAN number:	5711492337370
Technical:	
Rated flow:	405 US GPM
Rated head:	97.97 psi
Stages:	4
Curve tolerance:	ISO9906:2012 3B
Model:	D
Materials:	
Pump:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Motor:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
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:	30 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 440-460-480 V
Service factor:	1.15
Rated current:	48.0-46.0-45.0 A
Maximum current consumption:	48 A
Starting current:	520-570-620 %
Cos phi - power factor:	0.87-0.85-0.83
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP66
Thermal protec:	external
Built-in temp. transmitter:	yes
Motor No:	78195018
Others:	
Minimum efficiency index, MEI ≥:	---
Net weight:	432 lb
Gross weight:	613 lb
Shipping volume:	32.1 ft³
Country of origin:	DK
Custom tariff no.:	8413.70.2004



16DS3604 BM 77-4 NBR 60 Hz

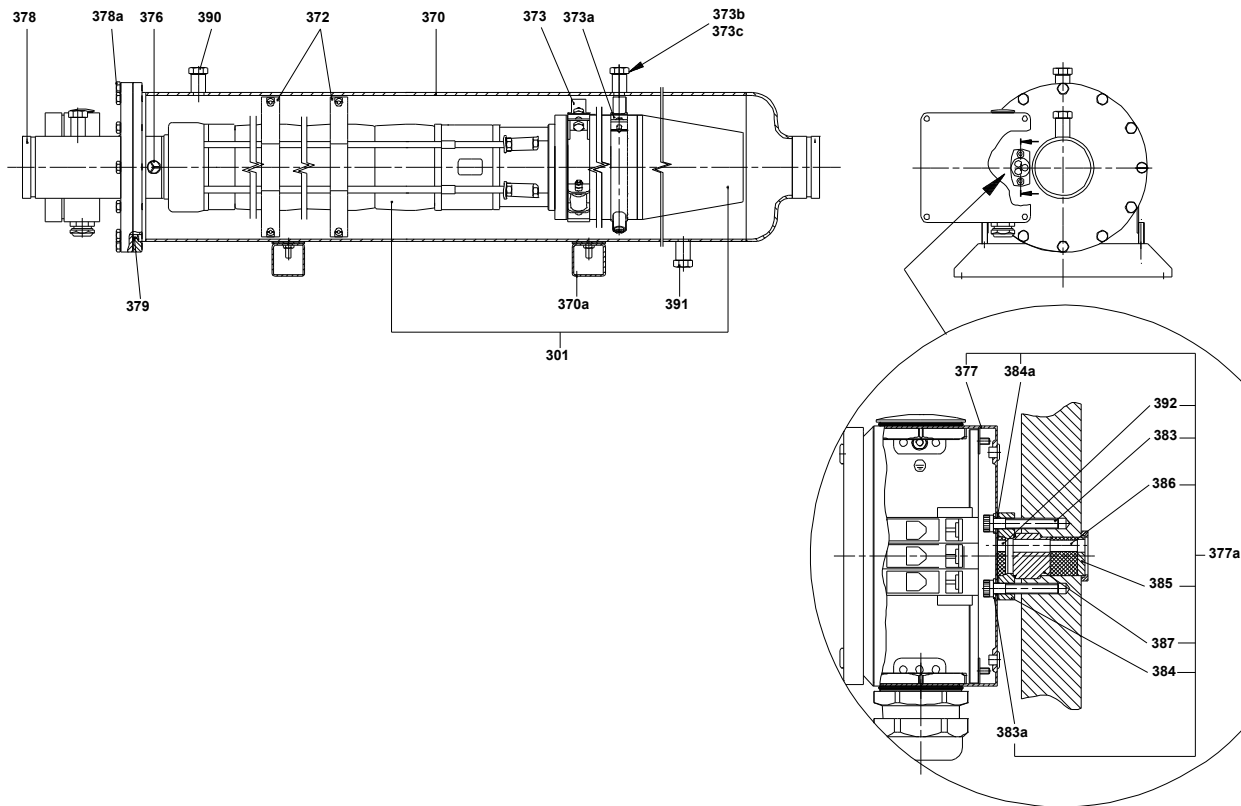


16DS3604 BM 77-4 NBR 60 Hz



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 77-4, Product No. 16DS3604

Produced After 1949 (production year and week number)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
-	Kit, Cable entry			96871604	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
385	Washer				1	pcs
386	Plug				1	pcs
392	Rubber plug				1	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	2	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	4	pcs
26c	Bulk, Flat Washer (10 PC)			99886930	4	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	2	pcs
66	Bulk, Lock washer (24 PC)			96536449	2	pcs
-	301 Pump				1	pcs
-	Diaphragm			96164202	1	pcs
12	Diaphragm				10	pcs
-	Gasket			96164204	1	pcs
46	Gasket				50	pcs
-	Kit, End cover			96558380	1	pcs
12	Diaphragm				1	pcs
13	Bottom cover				1	pcs
46	Socket button head screw				4	pcs
-	Kit, Radial bearing			96164199	1	pcs
4	Radial bearing				1	pcs
5	Radial bearing				1	pcs
-	Kit, Thrust bearing			96164195	1	pcs
3	Thrust bearing				1	pcs
6	Thrust bearing				1	pcs
42	Stop				2	pcs
-	Kit, Wear parts			96164191	1	pcs
2a	Upthrust ring				1	pcs
12	Diaphragm				1	pcs
22a	Cross recess Pan head screw				1	pcs
24	O-ring				1	pcs
+	27 Sand shield				1	pcs
34	Shaft seal				1	pcs
46	Socket button head screw				4	pcs
50	Pan head screw				4	pcs
+	Motor liquid			00795896	1	pcs
+	Shaft seal housing			96164200	1	pcs
-	Shaft w/rotor			96167008	1	pcs
2	Shaft w/rotor				1	pcs
-	Stator housing			96166528	1	pcs

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
1	Stator housing				1	pcs
	Bulk, Motor liquid (5 L)			00795898	0	L
	Bulk, Motor liquid (25 L)			00796701	0	L
28	Bulk, Washer (5 PC)			99753564	1	pcs
32	Housing cpl.			99124742	1	pcs
-	Pump w/o motor				1	pcs
-	Kit, Wear parts			96440256	1	pcs
1d	O-ring				1	pcs
3	Valve seat				1	pcs
6b	Bearing				1	pcs
7	Seal ring				8	pcs
8b	Stop ring				1	pcs
8a	Washer				1	pcs
8	Bearing				8	pcs
11c	Nut				1	pcs
72	Wear ring				8	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	3	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	3	pcs
13	Bulk, Impeller cpl. (5 PC)			97657776	3	pcs
13	Impeller cpl.			97657775	3	pcs
14	Suction interconnector			98587187	1	pcs
+ 16	Shaft cpl.			97758896	1	pcs
+ 17	Strap cpl.			97895194	4	pcs
19	Bulk, Hex nut (4 PC)			99543975	4	pcs
22	Bulk, Set screw (10 PC)			99439146	4	pcs
71	Bulk, Flat Washer (10 PC)			96535009	4	pcs
20	Motor cable			96300156	1	pcs
376	Bypass valve cpl.			99064365	2	pcs
379	Bulk, O-ring (5 PC)			98642166	1	pcs
384a	Bulk, Gasket (10 PC)			97914773	1	pcs
385	Washer			96591135	1	pcs
386	Plug			96591111	1	pcs
392	Rubber plug			96591122	1	pcs