

NBE50-160/175 A-F2-A-GQQE

Grundfos pump 96539138



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<https://www.lenntech.com/grundfos/NBE00/96539138/NBE-50-160-175-A-F-A-GQQE.html>

info@lenntech.com

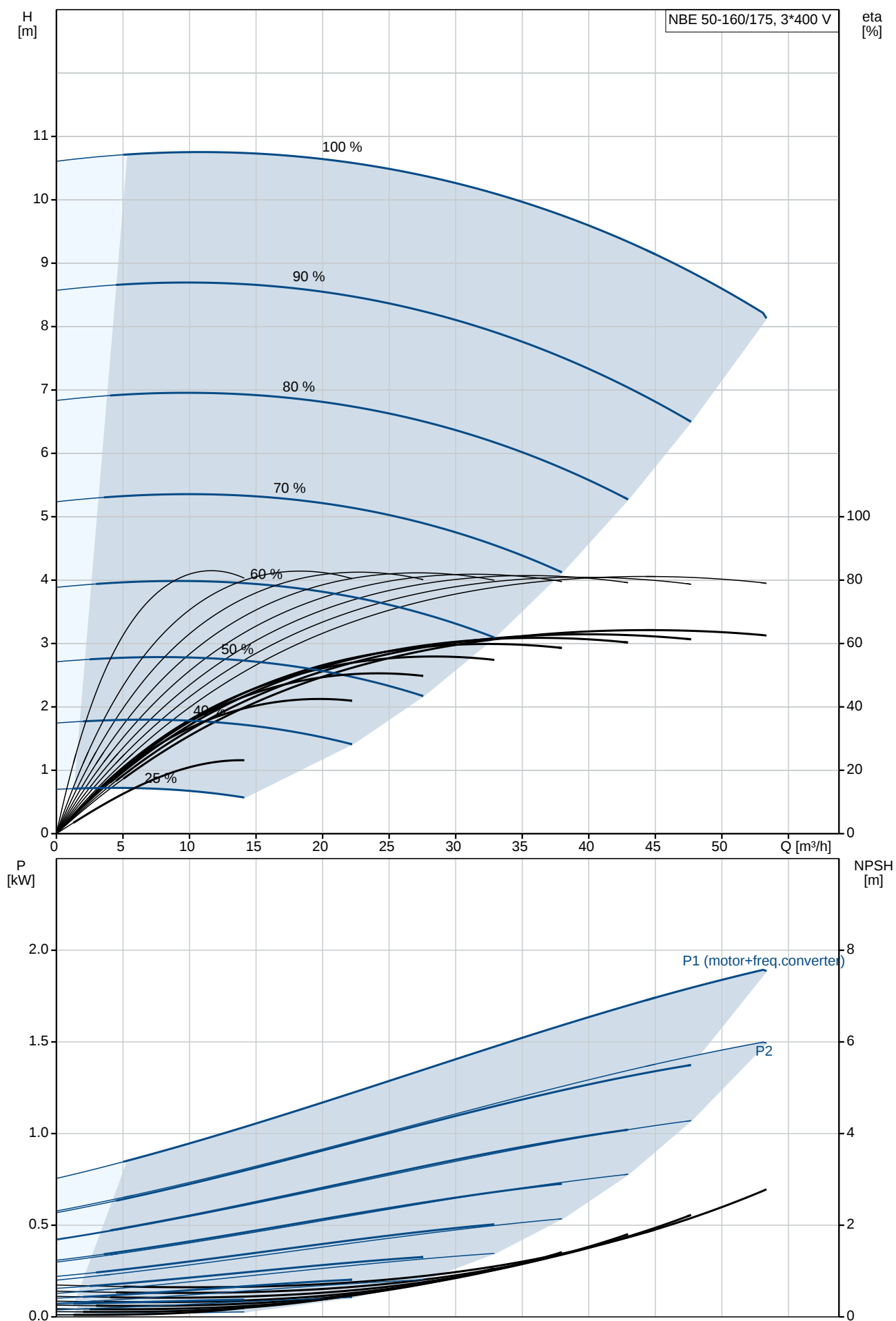
tel. +31 152 610 900

fax. +31 152 616 289

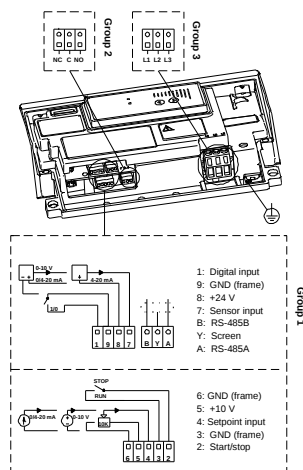
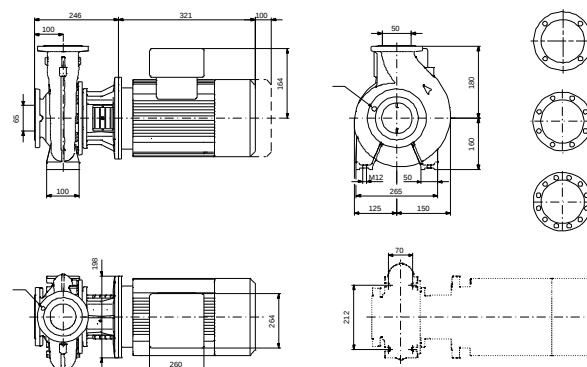
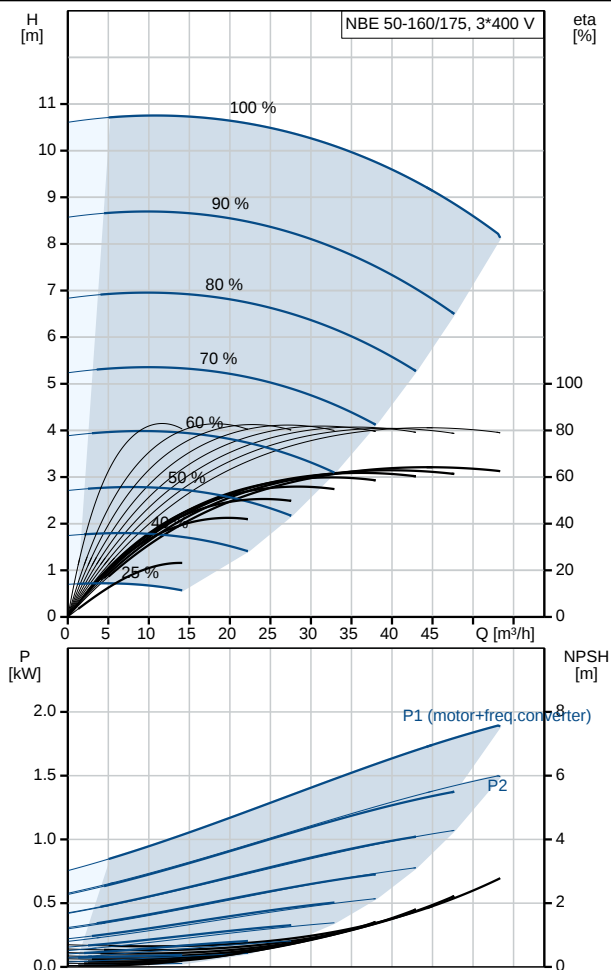
Position	Qty.	Description
	1	NBE 50-160/175 A-F-A-GQQE  Note! Product picture may differ from actual product Product No.: On request Non-self priming, single-stage centrifugal pump according to DIN. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids. The impeller is hydraulically as well as dynamically balanced. The pump has the following characteristics: - flange dimensions according to EN 1092-2, - Cast iron volute pump housing, - stainless steel shaft and Cast iron impeller and bronze wear rings, - unbalanced mechanical shaft seal according to EN 12756. The pump is fitted with an IEC-flanged three-phase MGE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required, as both motor and electronics are protected by integrated overload and temperature protection. An external sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required. A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault". Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". The terminal box holds terminals for the connection of: - pump start/stop (potential-free contact), - external remote setpoint setting via analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 5 V voltage supply for setpoint potentiometer, I_{max} = 5 mA, - sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 24 V voltage supply for sensor, I_{max} = 40 mA,

Position	Qty.	Description
		- input for forced control to MIN or MAX (potential-free contact), - potential-free fault signal relay with changeover contact, - RS485 GENIbus. Liquid: Pumped liquid: Water Liquid temperature range: -25 .. 90 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 43.6 m³/h Rated head: 8.5 m Actual impeller diameter: 175 mm Impeller nom: 160 mm Primary shaft seal: GQQE Materials: Pump housing: Cast iron EN-JL1040 Impeller: Cast iron EN-JL1030 ASTM A48-30 B Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Flange standard: DIN Pump inlet: DN 65 Pump outlet: DN 50 Pressure rating: PN 16 Electrical data: Motor type: 90LC IE Efficiency class: IE2 Rated power - P2: 1.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 3.30-2.90 A Cos phi - power factor: 0.92-0.83 Rated speed: 180-1740 rpm Efficiency: IE2 82,8% Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Others: Net weight: 57 kg Gross weight: 64 kg Shipping volume: 0.184 m³

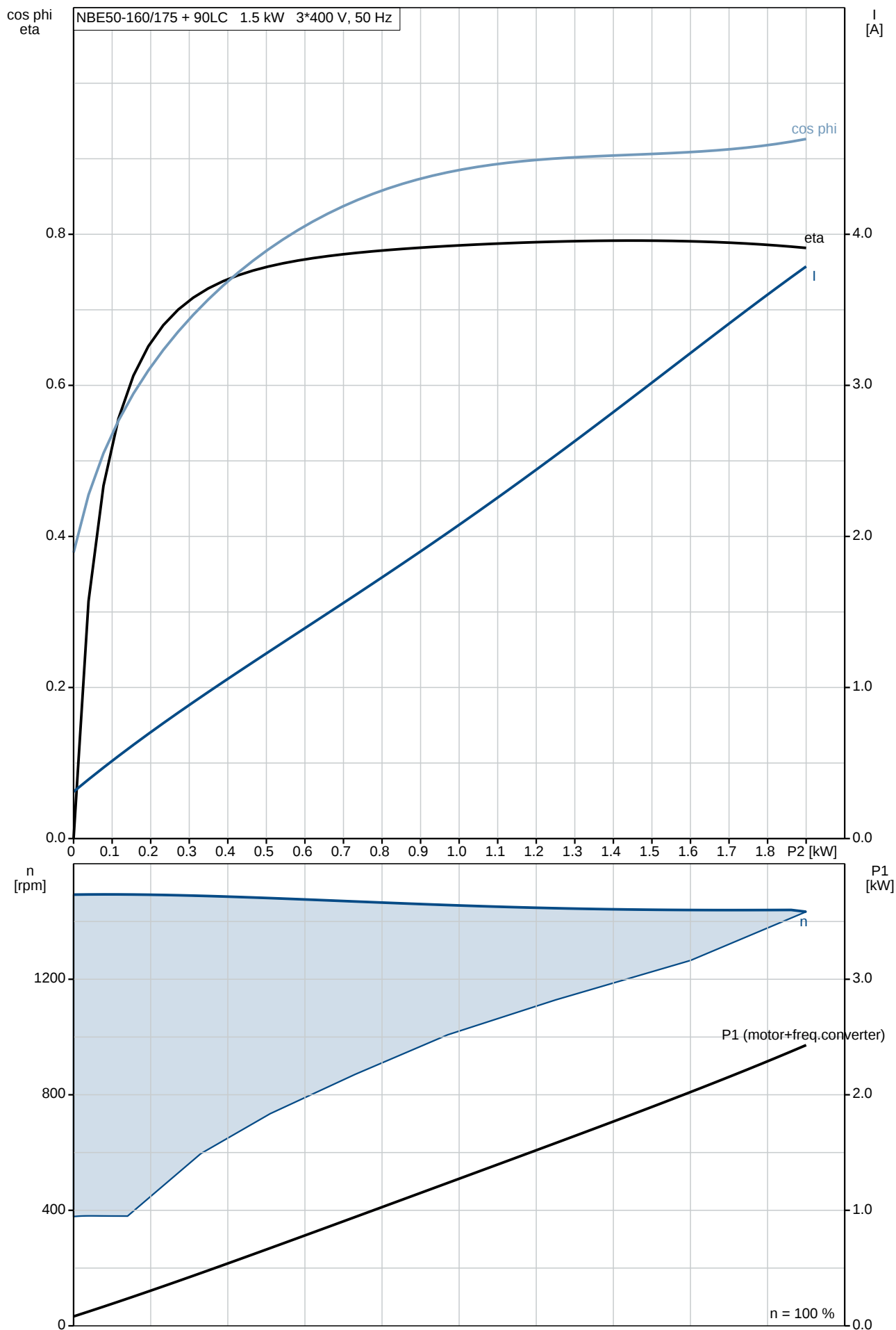
On request NBE 50-160/175 A-F-A-GQQE 50 Hz



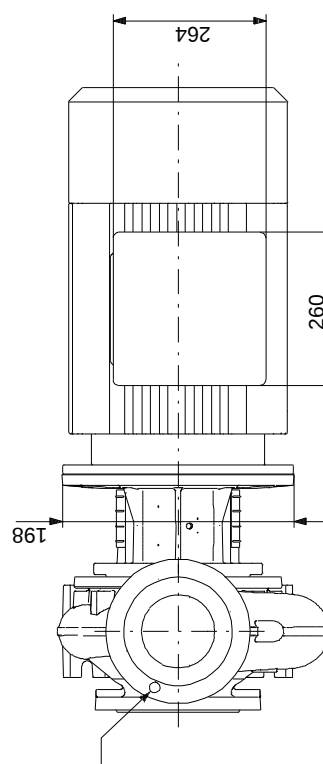
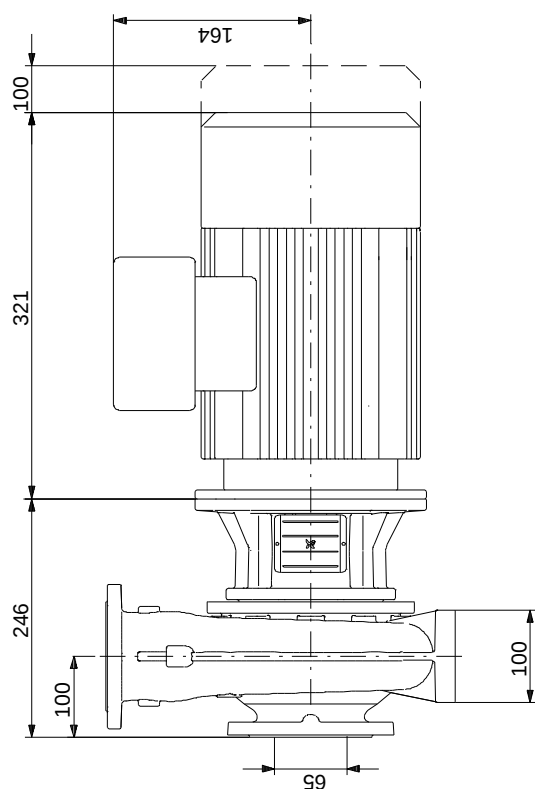
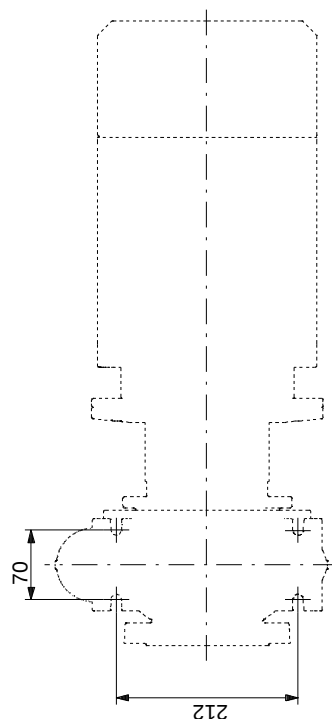
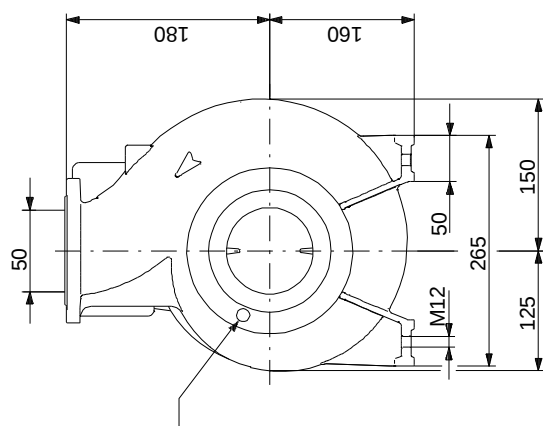
Description	Value
General information:	
Product name:	NBE 50-160/175
Product No:	A-F-A-GQQE
EAN number:	On request
Technical:	
Rated flow:	43.6 m ³ /h
Rated head:	8.5 m
Actual impeller diameter:	175 mm
Impeller nom:	160 mm
Primary shaft seal:	GQQE
Pump version:	A
Materials:	
Pump housing:	Cast iron
	EN-JL1040
Impeller:	Cast iron
	EN-JL1030
	ASTM A48-30 B
Material code:	A
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Pump inlet:	DN 65
Pump outlet:	DN 50
Pressure rating:	PN 16
Wear ring(s):	neckring(s)
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 90 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
Motor type:	90LC
IE Efficiency class:	IE2
Rated power - P2:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	3.30-2.90 A
Cos phi - power factor:	0.92-0.83
Rated speed:	180-1740 rpm
Efficiency:	IE2 82,8%
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	87761015
Mount. design. acc. IEC 34-7:	IM V1/B5
Others:	
Net weight:	57 kg
Gross weight:	64 kg
Shipping volume:	0.184 m ³
Config. file no:	96116091



On request NBE 50-160/175 A-F-A-GQQE 50 Hz



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

Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list NBE 50-160/175, Product No. On request
Valid from 30.4.2012 (1218)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+	Motor				1	pcs
-	Nut				1	pcs
66	Washer				1	
66a	Spring lock washer				1	
67	Nut		Thread: M14		1	
-	Motor stool cpl.				1	pcs
1a	Motor stool				1	
7	Coupling guard				2	
9	Hex socket head cap screw		Length (mm): 30		4	
			Thread: M10			
77a	Pan head screw				4	
-	Pump housing cpl.				1	pcs
6	Pump housing				1	
36	Nut		Thread: M10		6	
-	Stub shaft				1	pcs
9	Socket set screw		Length (mm): 6		2	
			Thread: M8			
11	Parallel key		Dimension: 6X6X35		1	
51	Pump shaft				1	
49	Impeller				1	pcs
72a	O-ring		Diameter: 177,39		1	pcs
			Material type: EPDM			
			Thickness: 3,53			
105	Shaft seal		Material type: GQQE		1	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated.

Data may be subject to alterations without further notice.

Please contact us to verify the data above is still accurate/up-to-date.

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info@lenntech.com

<https://www.lenntech.com>

tel. +31 152 610 900

fax. +31 152 616 289