

NBE80-160/161 A-F2-A-GQQE

Grundfos pump 96539190



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<https://www.lenntech.com/grundfos/NBE00/96539190/NBE-80-160-161-A-F-A-GQQE.html>

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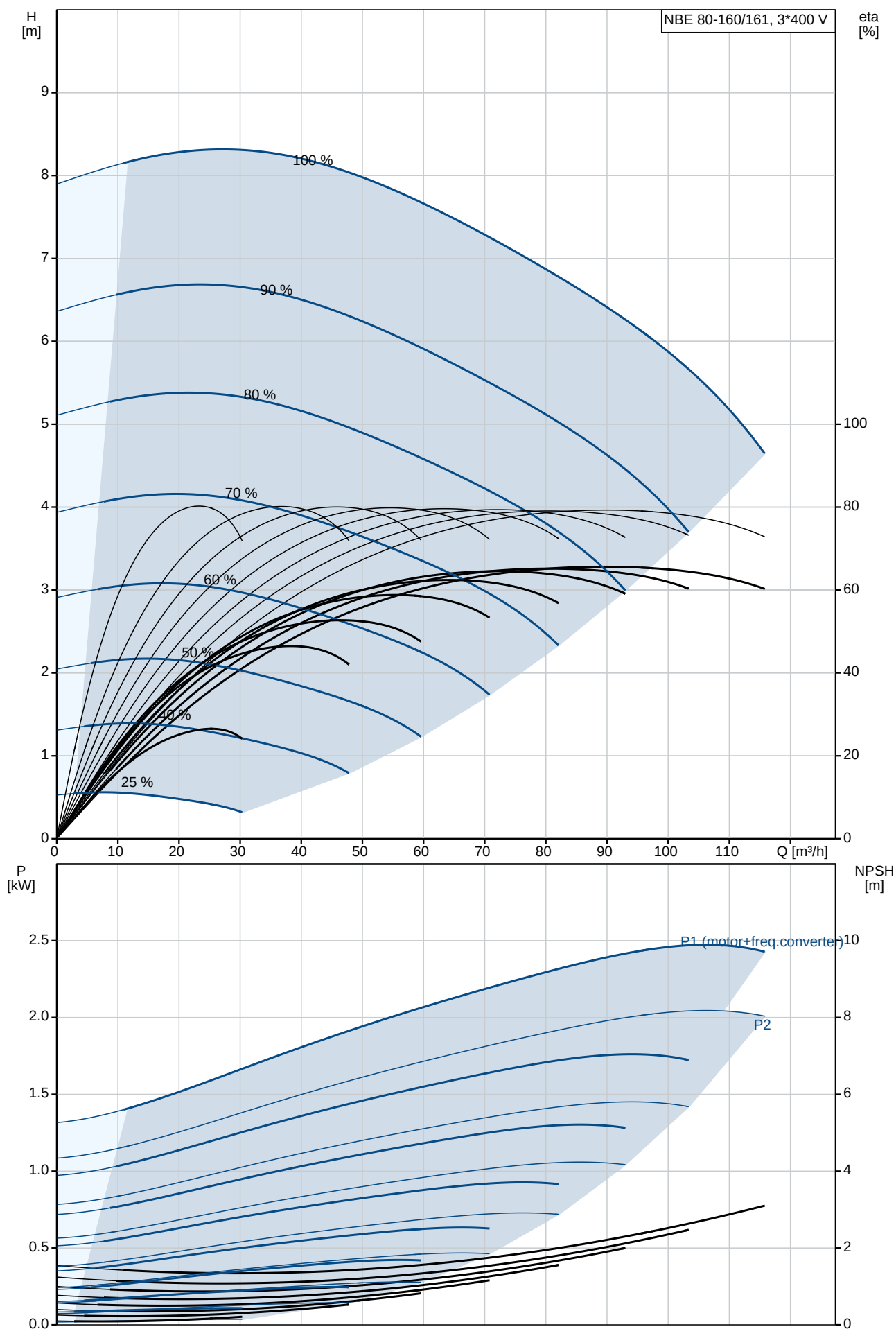
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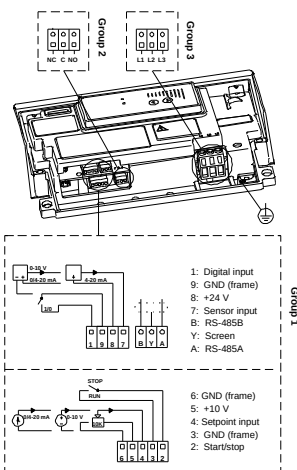
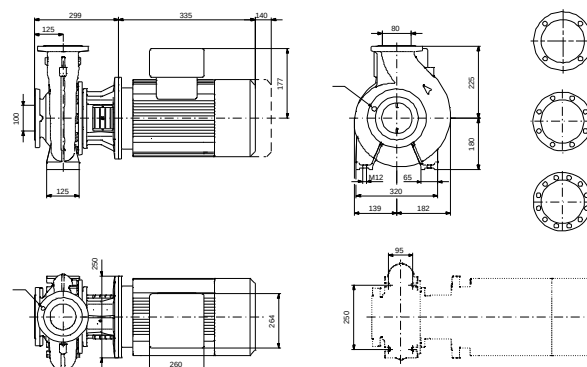
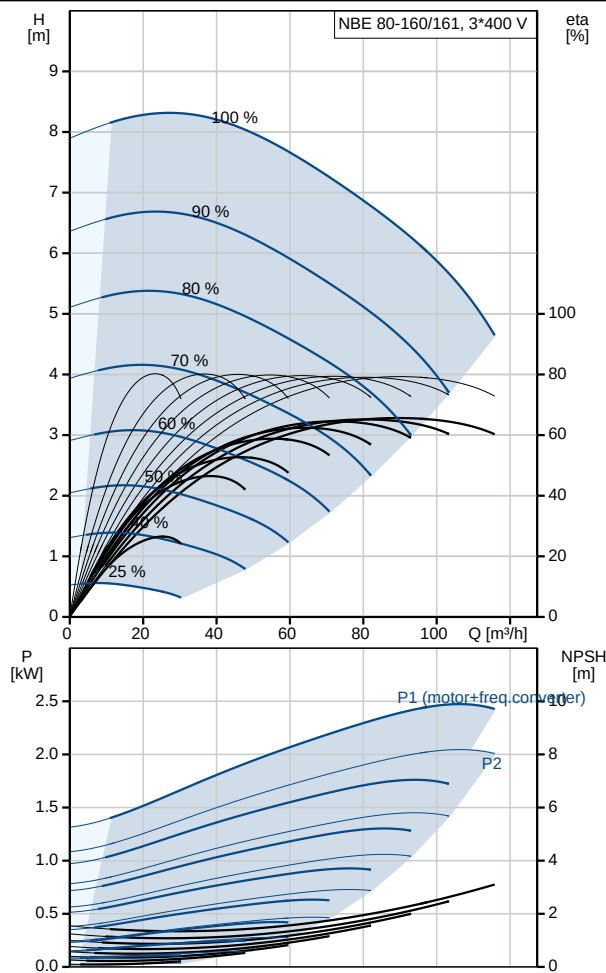
Position	Qty.	Description
	1	NBE 80-160/161 A-F-A-GQQE  Note! Product picture may differ from actual product Product No.: On request Non-self priming, single-stage centrifugal pump according to DIN. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred 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: 89.8 m³/h Rated head: 6 m Actual impeller diameter: 161 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 100 Pump outlet: DN 80 Pressure rating: PN 16 Electrical data: Motor type: 100LB IE Efficiency class: IE2 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 4.60-3.80 A Cos phi - power factor: 0.94-0.90 Rated speed: 180-1740 rpm Efficiency: IE2 84,3% Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Others: Net weight: 76 kg Gross weight: 83 kg Shipping volume: 0.324 m³

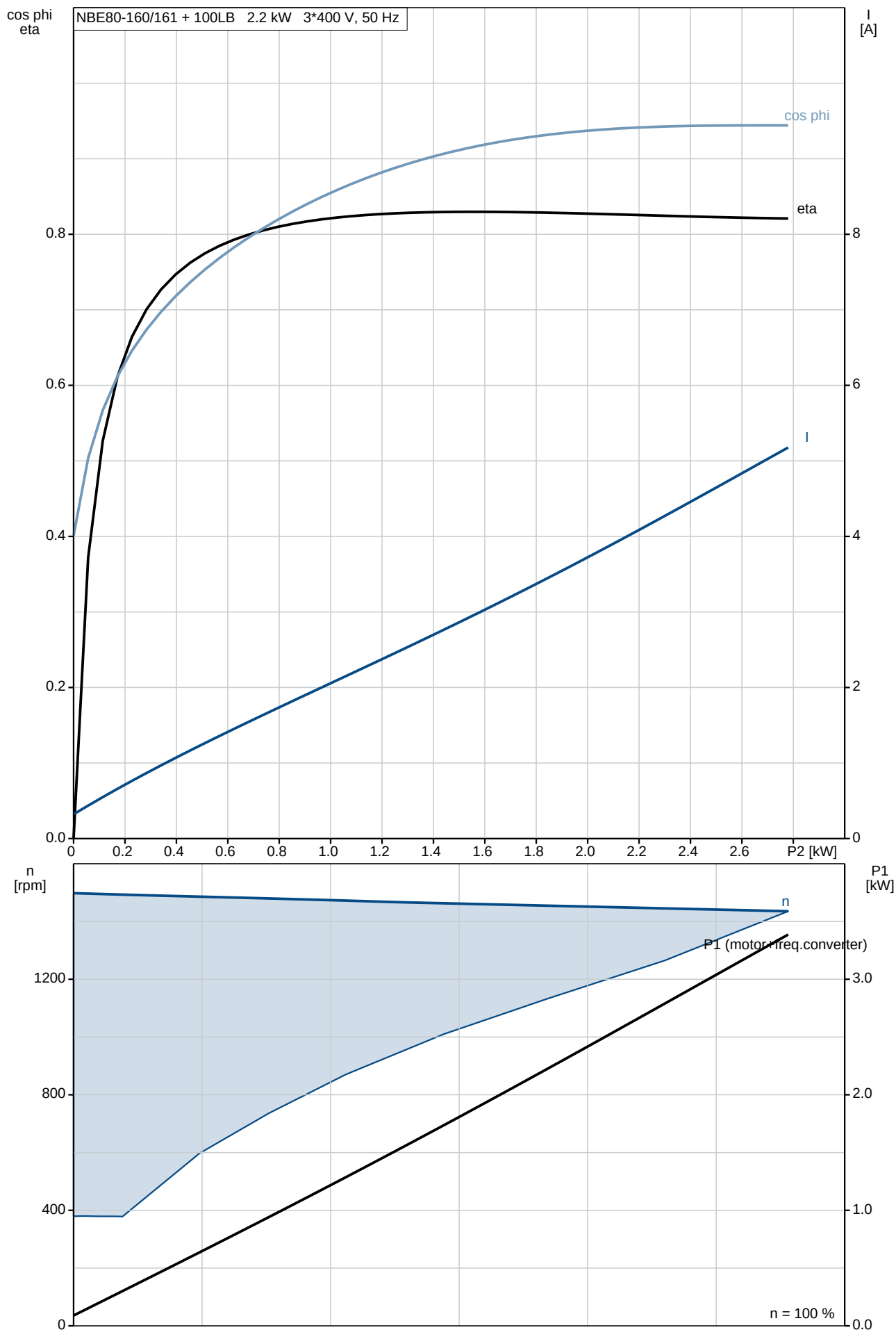
On request NBE 80-160/161 A-F-A-GQQE 50 Hz



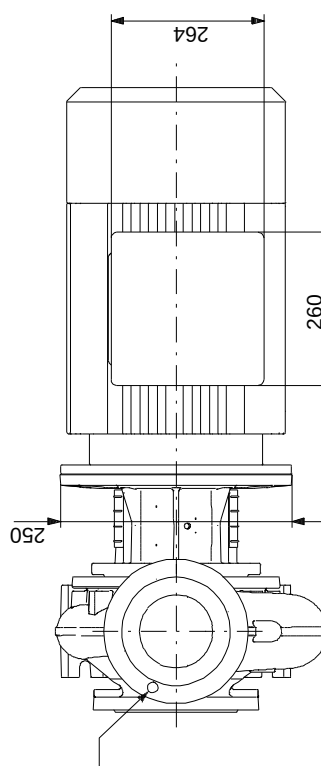
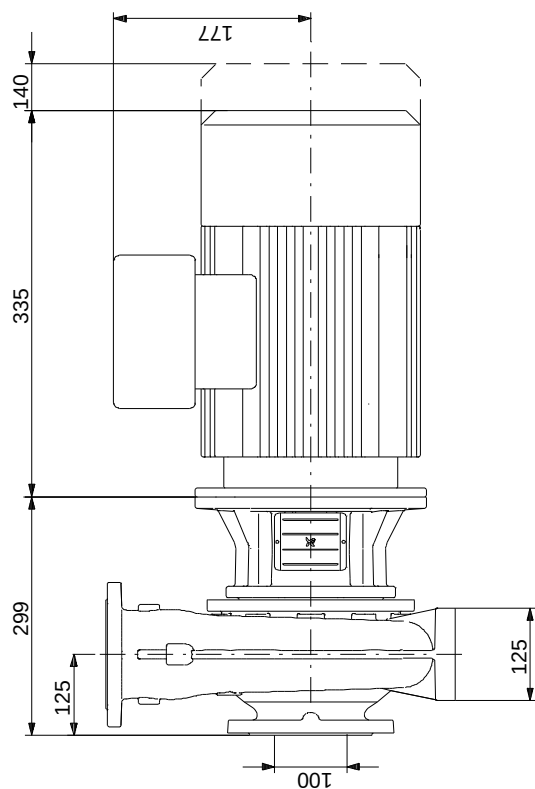
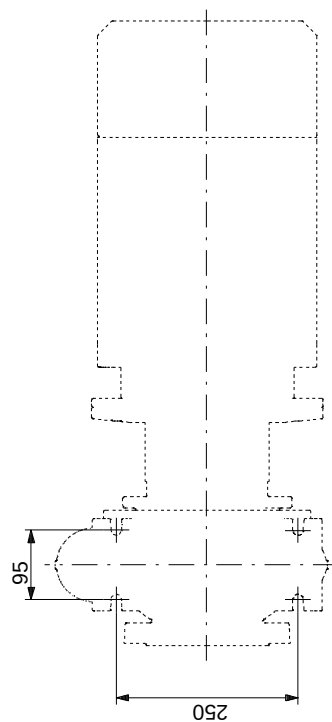
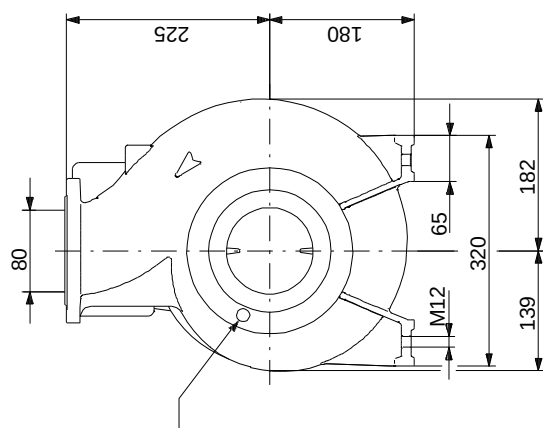
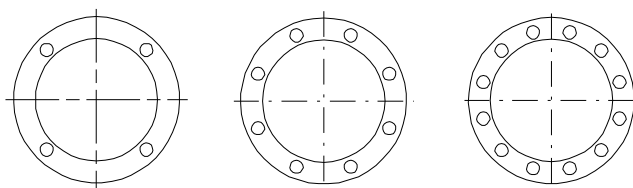
Description	Value
General information:	
Product name:	NBE 80-160/161
Product No:	A-F-A-GQQE
EAN number:	On request
Technical:	
Rated flow:	89.8 m³/h
Rated head:	6 m
Actual impeller diameter:	161 mm
Impeller nom:	160 mm
Primary shaft seal:	GQQE
Pump version:	A
Materials:	
Pump housing:	Cast iron
	EN-JL1040
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 100
Pump outlet:	DN 80
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/m³
Electrical data:	
Motor type:	100LB
IE Efficiency class:	IE2
Rated power - P2:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	4.60-3.80 A
Cos phi - power factor:	0.94-0.90
Rated speed:	180-1740 rpm
Efficiency:	IE2 84,3%
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	87761016
Mount. design. acc. IEC 34-7:	IM V1/B5
Others:	
Net weight:	76 kg
Gross weight:	83 kg
Shipping volume:	0.324 m³
Config. file no:	96116092



On request NBE 80-160/161 A-F-A-GQQE 50 Hz

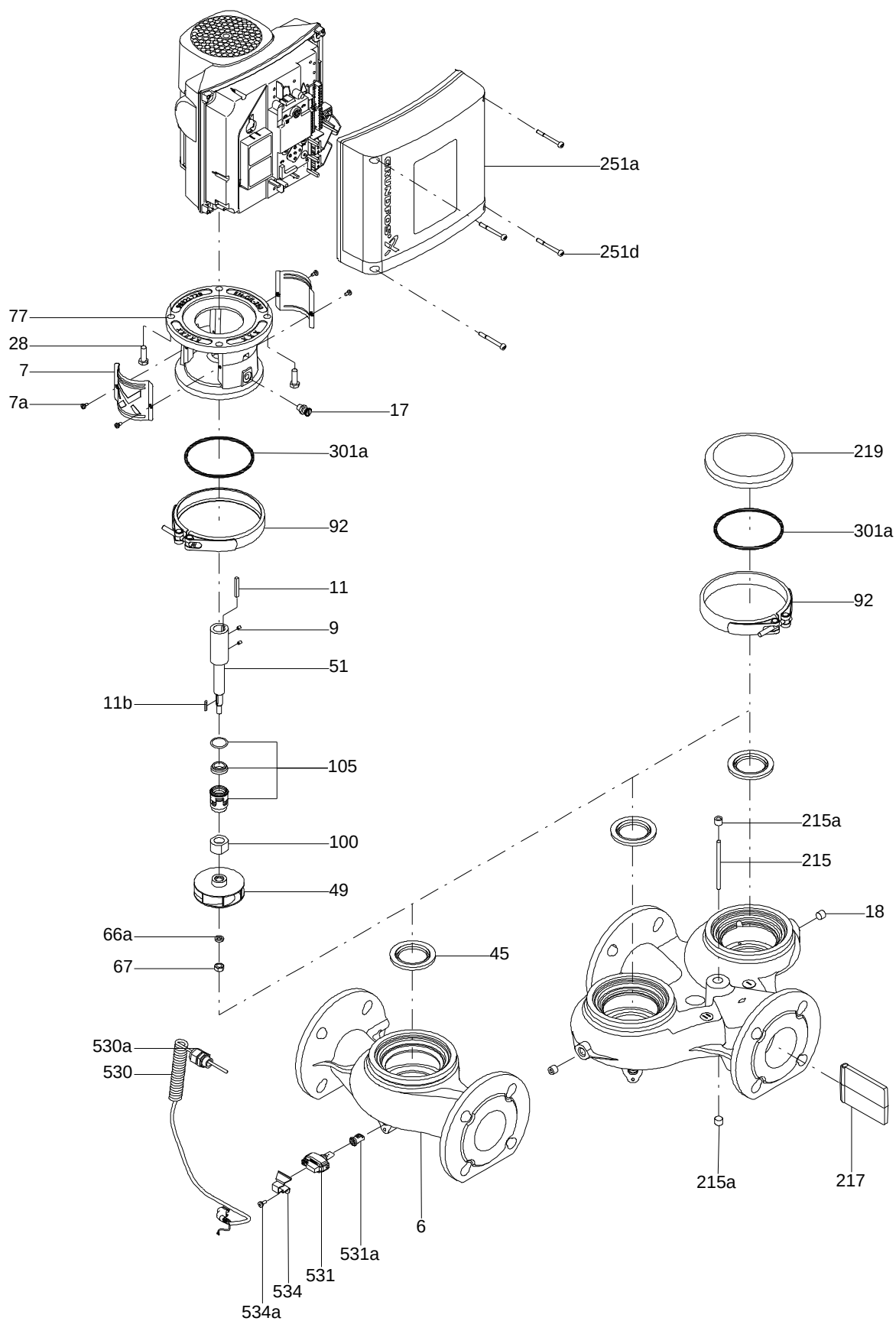


On request NBE 80-160/161 A-F-A-GQQE 50 Hz

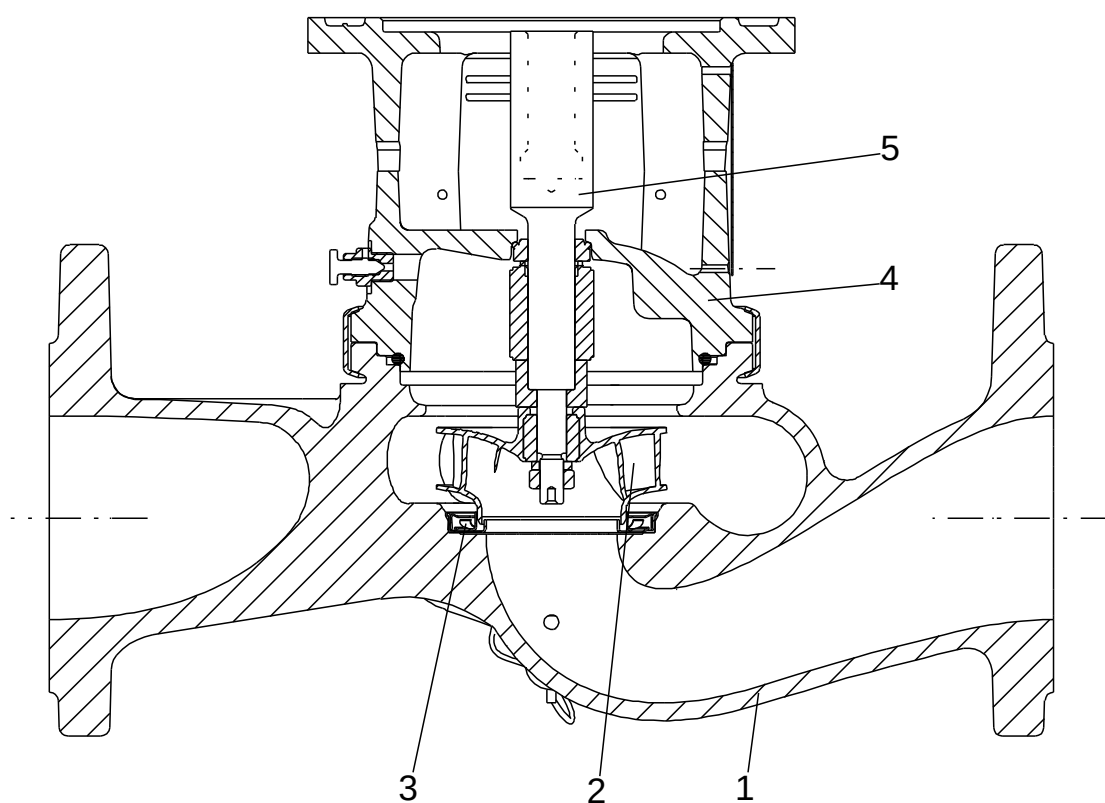


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

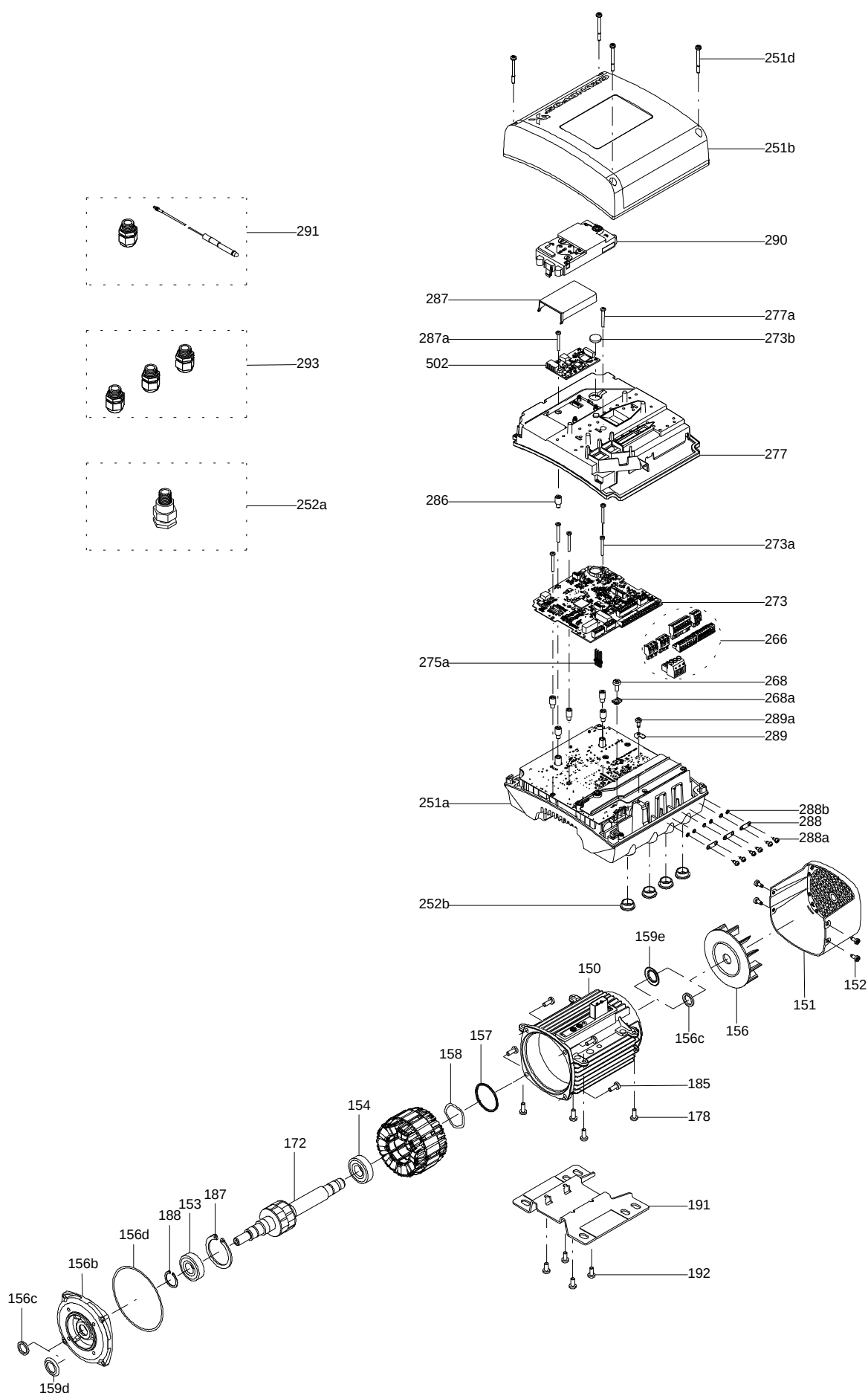


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



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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