

## TP 65-250/2-A-F-A-BQQE 400D 50HZ Grundfos pump 98742352




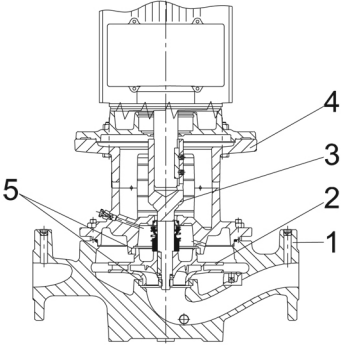
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<https://www.lenntech.com/grundfos/TP000/98742352/TP-65-250-2-A-F-A-BQQE.html>

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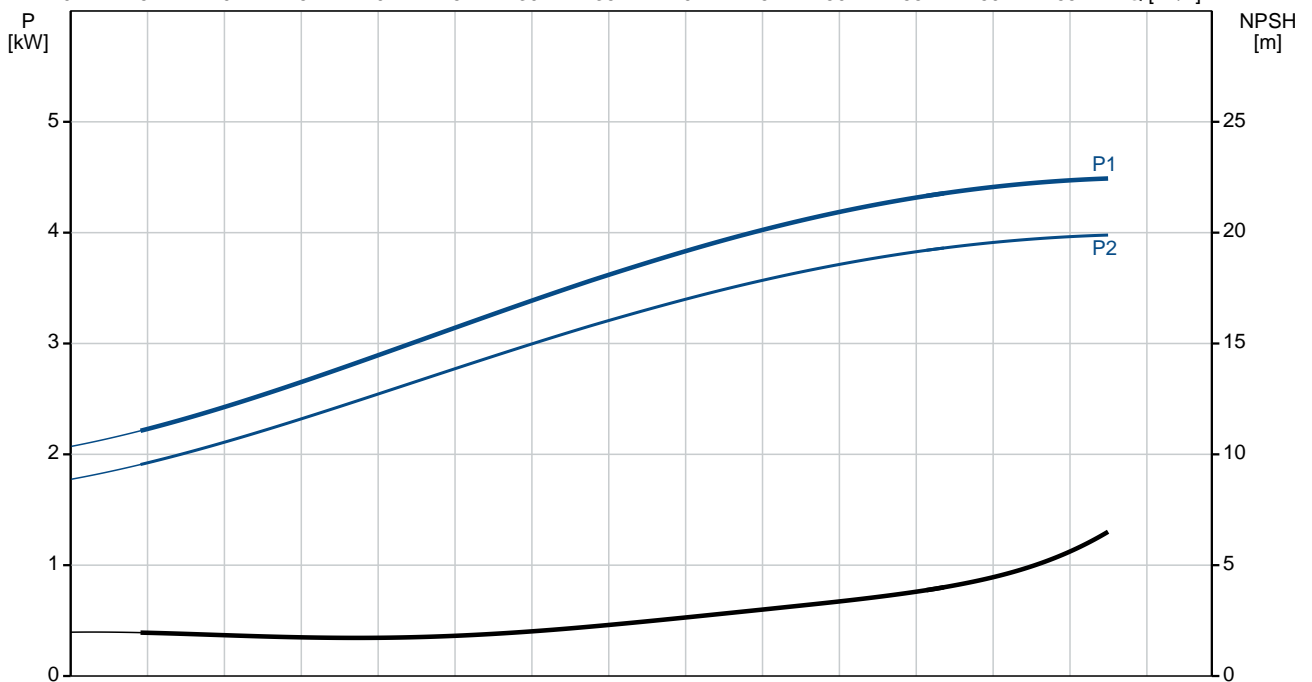
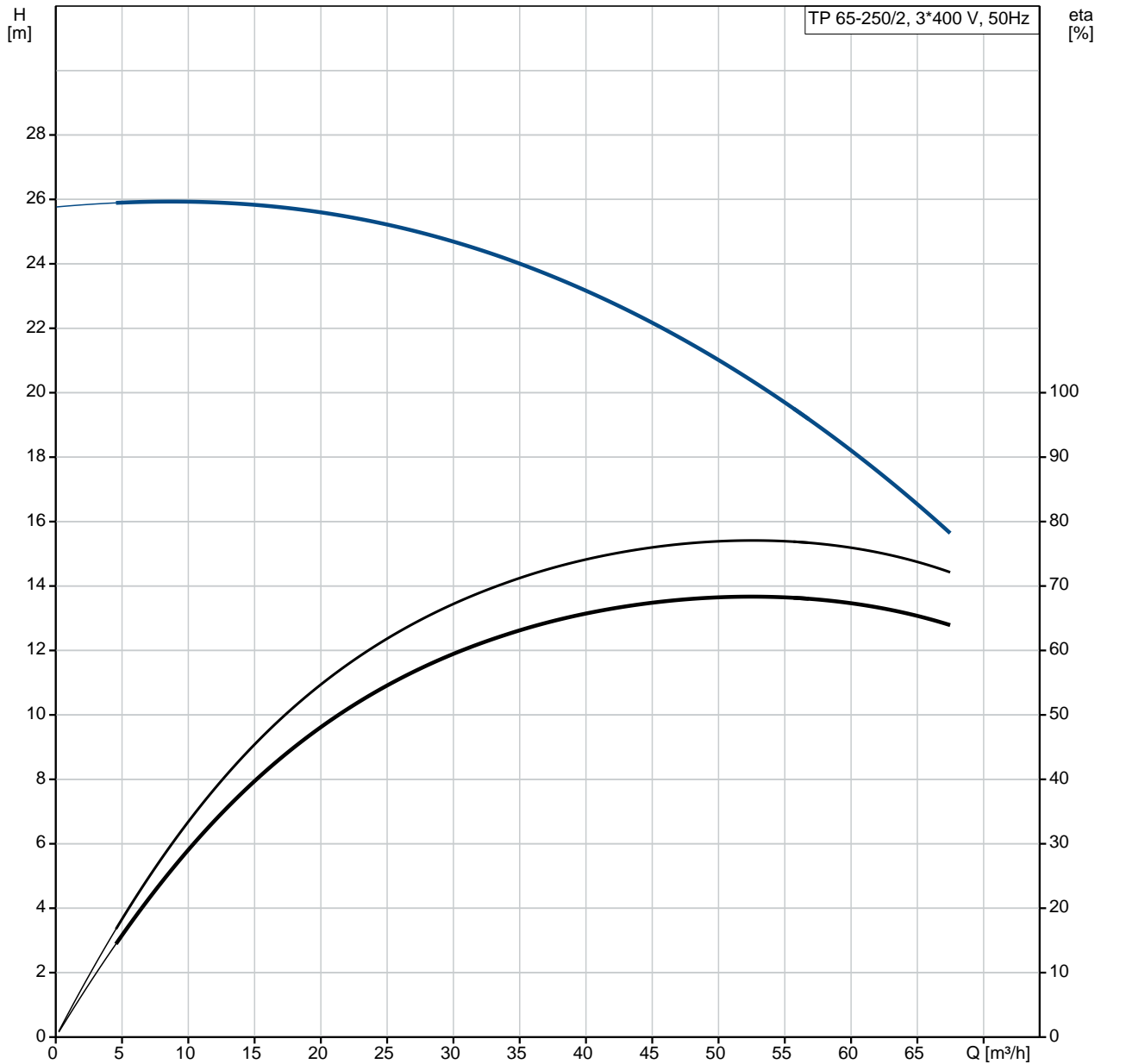
fax. +31 152 616 289

Position	Qty.	Description
	1	<p data-bbox="323 163 614 197"><b>TP 65-250/2 A-F-A-BQQE</b></p>  <p data-bbox="323 483 600 517">Product No.: On request</p> <p data-bbox="323 544 1445 622">Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.</p> <p data-bbox="323 629 1422 685">The pump is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).</p> <p data-bbox="323 689 951 723">The pump is fitted with a fan-cooled asynchronous motor.</p> <p data-bbox="323 748 639 781"><b>Further product details</b></p> <p data-bbox="323 786 1426 864">The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.</p> <p data-bbox="323 898 403 931"><b>Pump</b></p> <p data-bbox="323 936 1257 969">Pump housing and pump head are electrocoated to improve the corrosion resistance.</p> <p data-bbox="323 974 584 996">Electrocoating includes:</p> <ol data-bbox="323 1001 810 1115" style="list-style-type: none"> <li>1) Alkaline-based cleaning.</li> <li>2) Pretreatment with zinc phosphate coating.</li> <li>3) Cathodic electrocoating (epoxy).</li> <li>4) Curing of paint film at 200-250 °C.</li> </ol>  <ol data-bbox="323 1518 608 1666" style="list-style-type: none"> <li>1: Pump housing</li> <li>2: Impeller</li> <li>3: Stub shaft</li> <li>4: Pump head/motor stool</li> <li>5: Wear rings</li> </ol> <p data-bbox="323 1697 1461 1753">The pump housing is provided with a replaceable brass neck ring to reduce the amount of liquid running from the outlet side of the impeller to the inlet side. The impeller is secured to the shaft with a nut.</p> <p data-bbox="323 1809 1441 1888">The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.</p> <p data-bbox="323 1899 467 1921">Primary seal:</p> <ul data-bbox="355 1926 919 1984" style="list-style-type: none"> <li>• Rotating seal ring material: silicon carbide (SiC)</li> <li>• Stationary seat material: silicon carbide (SiC)</li> </ul> <p data-bbox="323 1989 1426 2045">This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.</p> <p data-bbox="323 2049 986 2072">Secondary seal material: EPDM (ethylene-propylene rubber)</p> <p data-bbox="323 2076 1217 2098">EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p>

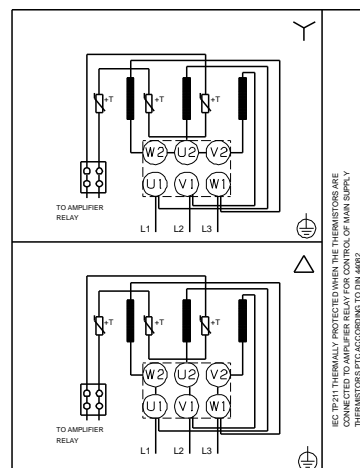
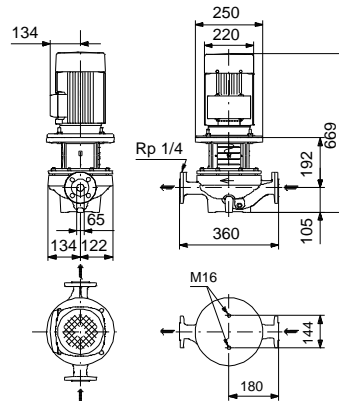
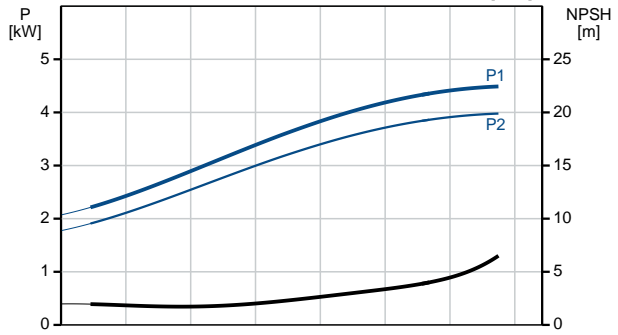
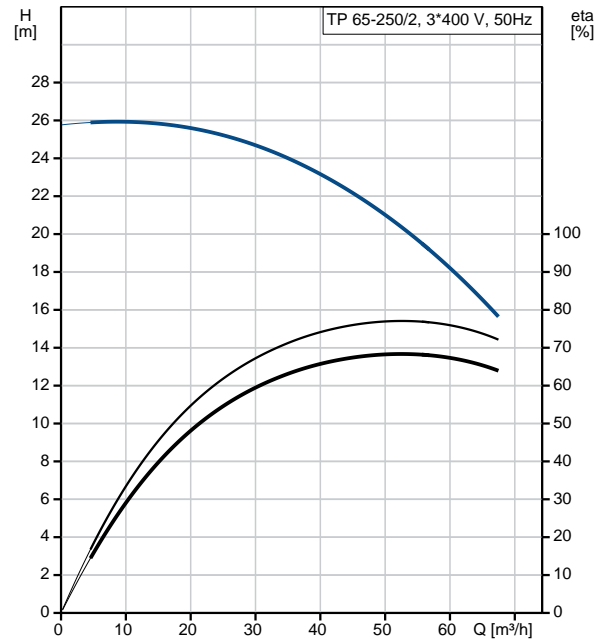
Position	Qty.	Description																																								
		<p>A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.</p> <p>The flanges have tappings for mounting of pressure gauges.</p> <p>The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring.</p> <p>The central part of the motor stool is provided with guards for protection against the shaft and coupling. The pump shaft is fastened directly on the motor shaft with key and set screws.</p> <p><b>Motor</b></p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.</p> <p>The motor is flange-mounted with free-hole flange (FF). Motor-mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (Code II).</p> <p>The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1. The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p> <p>Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.</p> <p>The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.</p> <p><b>Technical data</b></p> <p><b>Liquid:</b></p> <table border="0"> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>-25 .. 120 °C</td> </tr> <tr> <td>Liquid temperature during operation:</td> <td>20 °C</td> </tr> <tr> <td>Density:</td> <td>998.2 kg/m<sup>3</sup></td> </tr> </table> <p><b>Technical:</b></p> <table border="0"> <tr> <td>Rated flow:</td> <td>51.7 m<sup>3</sup>/h</td> </tr> <tr> <td>Rated head:</td> <td>20.2 m</td> </tr> <tr> <td>Actual impeller diameter:</td> <td>138 mm</td> </tr> <tr> <td>Primary shaft seal:</td> <td>BQQE</td> </tr> <tr> <td>Curve tolerance:</td> <td>ISO9906:2012 3B</td> </tr> </table> <p><b>Materials:</b></p> <table border="0"> <tr> <td>Pump housing:</td> <td>Cast iron EN-JL1040 ASTM A48-40 B</td> </tr> <tr> <td>Impeller:</td> <td>Cast iron EN-JL1030 ASTM A48-30 B</td> </tr> </table> <p><b>Installation:</b></p> <table border="0"> <tr> <td>Range of ambient temperature:</td> <td>-30 .. 60 °C</td> </tr> <tr> <td>Maximum operating pressure:</td> <td>16 bar</td> </tr> <tr> <td>Flange standard:</td> <td>DIN</td> </tr> <tr> <td>Pipe connection:</td> <td>DN 65</td> </tr> <tr> <td>Pump inlet:</td> <td>DN 65</td> </tr> <tr> <td>Pump outlet:</td> <td>DN 65</td> </tr> <tr> <td>Pressure rating:</td> <td>PN 16</td> </tr> <tr> <td>(@):</td> <td>360 mm</td> </tr> <tr> <td>Flange size for motor:</td> <td>FF215</td> </tr> </table> <p><b>Electrical data:</b></p>	Pumped liquid:	Water	Liquid temperature range:	-25 .. 120 °C	Liquid temperature during operation:	20 °C	Density:	998.2 kg/m <sup>3</sup>	Rated flow:	51.7 m <sup>3</sup> /h	Rated head:	20.2 m	Actual impeller diameter:	138 mm	Primary shaft seal:	BQQE	Curve tolerance:	ISO9906:2012 3B	Pump housing:	Cast iron EN-JL1040 ASTM A48-40 B	Impeller:	Cast iron EN-JL1030 ASTM A48-30 B	Range of ambient temperature:	-30 .. 60 °C	Maximum operating pressure:	16 bar	Flange standard:	DIN	Pipe connection:	DN 65	Pump inlet:	DN 65	Pump outlet:	DN 65	Pressure rating:	PN 16	(@):	360 mm	Flange size for motor:	FF215
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Position	Qty.	Description
		<p> Motor type: 112MC  IE Efficiency class: IE3  Rated power - P2: 4 kW  Power (P2) required by pump: 4 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-415D V  Rated current: 7.9 A  Starting current: 1000-1110 %  Cos phi - power factor: 0.87-0.87  Rated speed: 2920-2940 rpm  Efficiency: IE3 88,1%  Motor efficiency at full load: 88.1 %  Motor efficiency at 3/4 load: 88.6 %  Motor efficiency at 1/2 load: 85.2 %  Number of poles: 2  Enclosure class (IEC 34-5): 55 Dust/Jetting  Insulation class (IEC 85): F </p> <p> <b>Others:</b>  Minimum efficiency index, MEI : 0.7  ErP status: EuP Standalone/Prod.  Net weight: 76 kg  Gross weight: 85 kg  Shipping volume: 0.18 m<sup>3</sup> </p>

# On request TP 65-250/2 A-F-A-BQQE 50 Hz

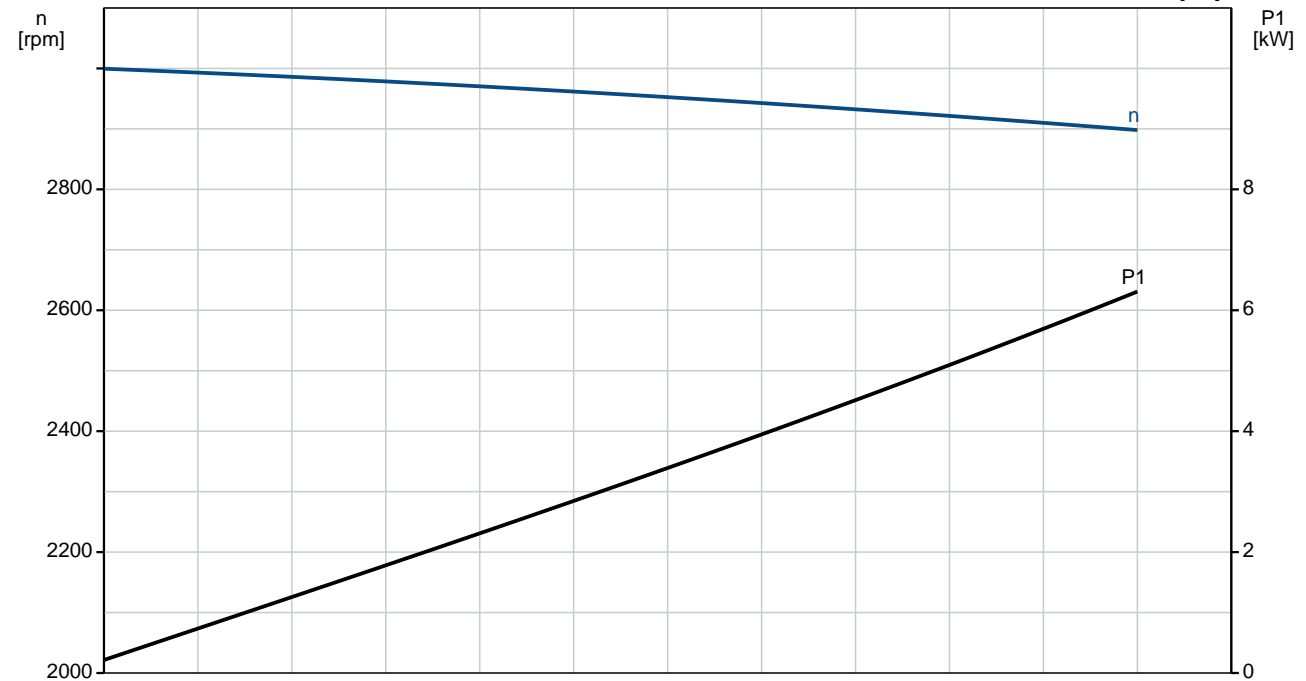
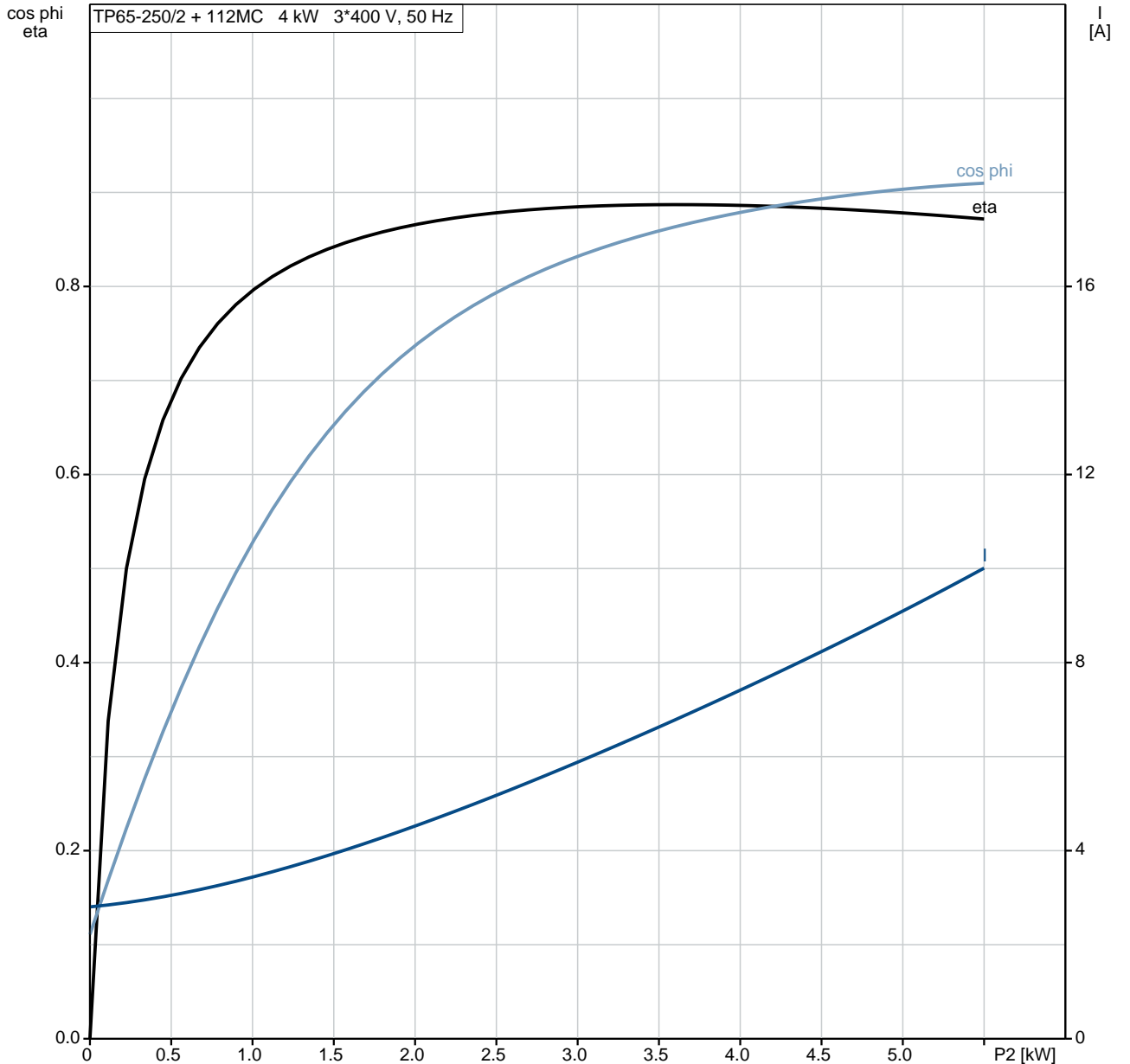


Description	Value
<b>General information:</b>	
Product name:	TP 65-250/2 A-F-A-BQQE
Product No:	On request
EAN number:	On request
<b>Technical:</b>	
Rated flow:	51.7 m <sup>3</sup> /h
Rated head:	20.2 m
Head max:	250 dm
Actual impeller diameter:	138 mm
Primary shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JL1040 ASTM A48-40 B
Impeller:	Cast iron EN-JL1030 ASTM A48-30 B
Material code:	A
<b>Installation:</b>	
Range of ambient temperature:	-30 .. 60 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Pipe connection:	DN 65
Pump inlet:	DN 65
Pump outlet:	DN 65
Pressure rating:	PN 16
(@)	360 mm
Flange size for motor:	FF215
Connect code:	F
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	112MC
IE Efficiency class:	IE3
Rated power - P2:	4 kW
Power (P2) required by pump:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D V
Rated current:	7.9 A
Starting current:	1000-1110 %
Cos phi - power factor:	0.87-0.87
Rated speed:	2920-2940 rpm
Efficiency:	IE3 88,1%
Motor efficiency at full load:	88.1 %
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	85.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	87322303
<b>Others:</b>	
Minimum efficiency index, MEI :	0.7
ErP status:	EuP Standalone/Prod.
Net weight:	76 kg
Gross weight:	85 kg
Shipping volume:	0.18 m <sup>3</sup>

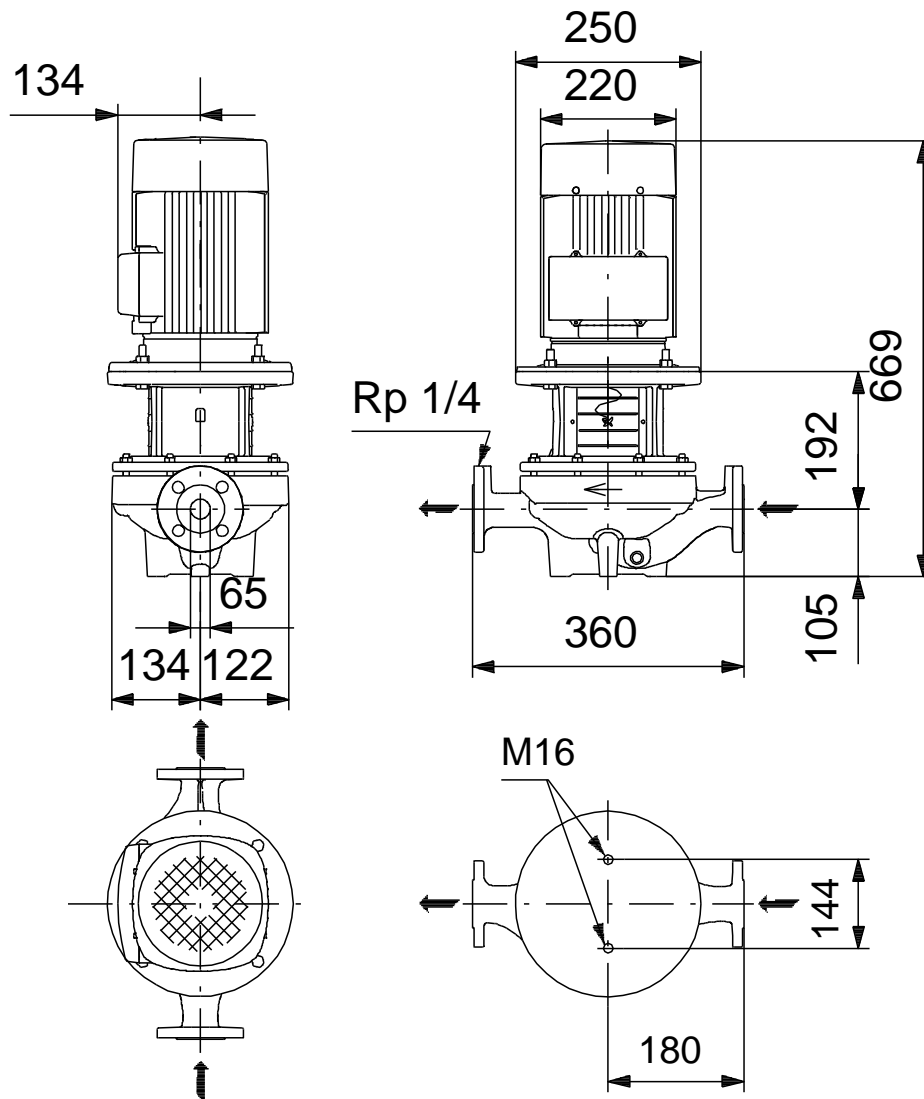


# On request TP 65-250/2 A-F-A-BQQE 50 Hz

TP65-250/2 + 112MC 4 kW 3\*400 V, 50 Hz



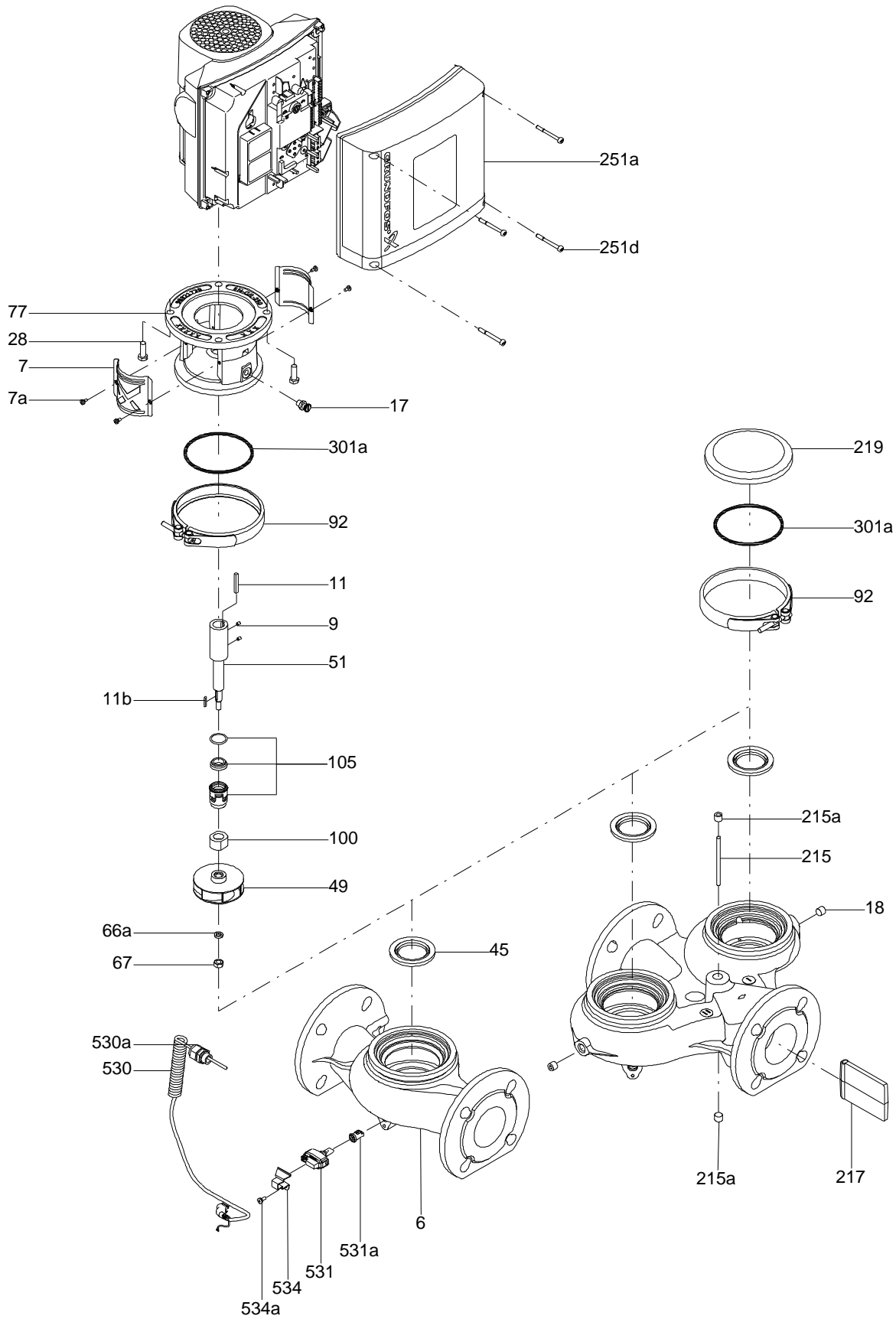
**On request TP 65-250/2 A-F-A-BQQE 50 Hz**



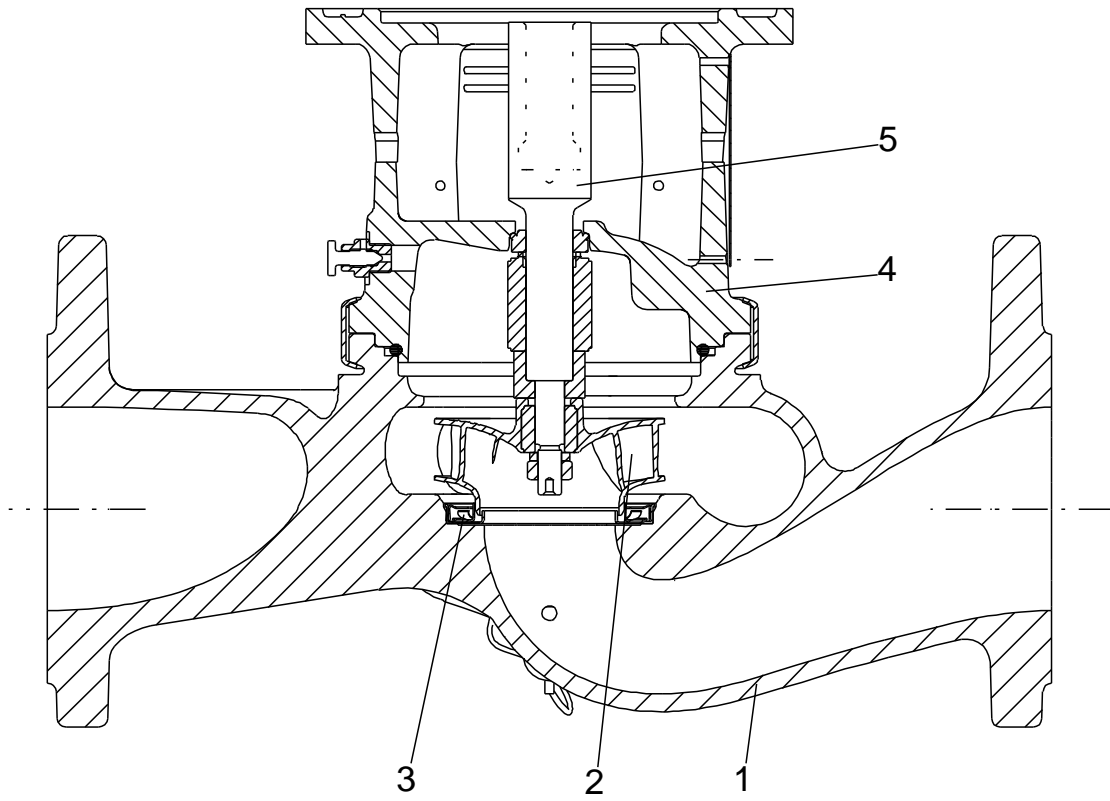
Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.



**Exploded view**

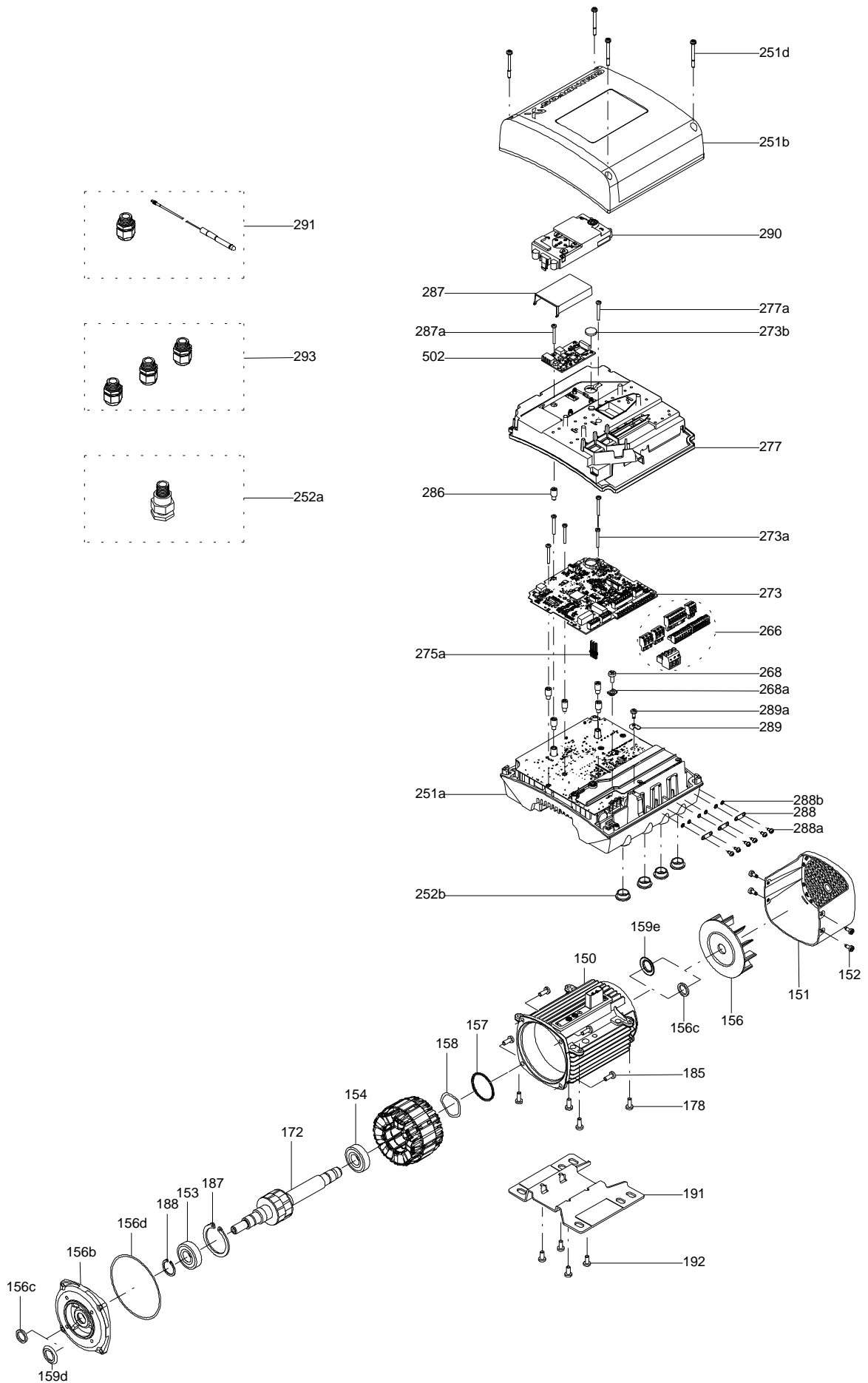


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

**Exploded view ( TM057026 for MGE model H/I )**



**Parts list TP 65-250/2, Product No. On request**  
**Valid from 1.1.2011 (1152)**

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	
77a	Pan head screw				4	
-	Pump housing cpl.				1	pcs
6	Pump housing				1	
36	Nut		Thread: M10		6	
-	Shaft seal cpl.				1	pcs
72a	O-ring		Diameter: 177,39 Material type: EPDM Thickness: 3,53		1	
105	Shaft seal				1	
-	Stub shaft				1	pcs
9	Socket set screw		Length (mm): 6 Thread: M8		2	
11	Parallel key		Dimension: 6X6X35		1	
51	Pump shaft				1	
17	Air vent screw				1	pcs
19	Plug				2	pcs
49	Impeller				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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