

CRE15-08 AN-F-A-E-HQQE 3x380-500 60 HZ

Grundfos pump 99071877



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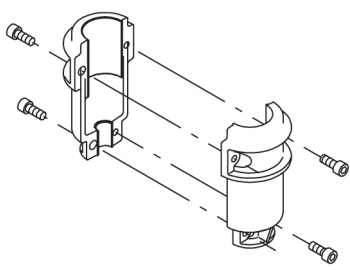
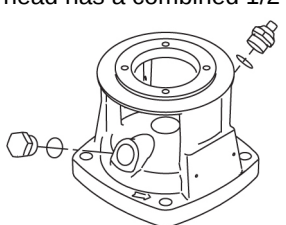
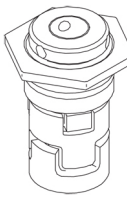
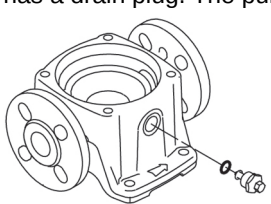
<https://www.lenntech.com/grundfos/CRE15/99071877/CRE-15-8-AN-F-A-E-HQQE.html>

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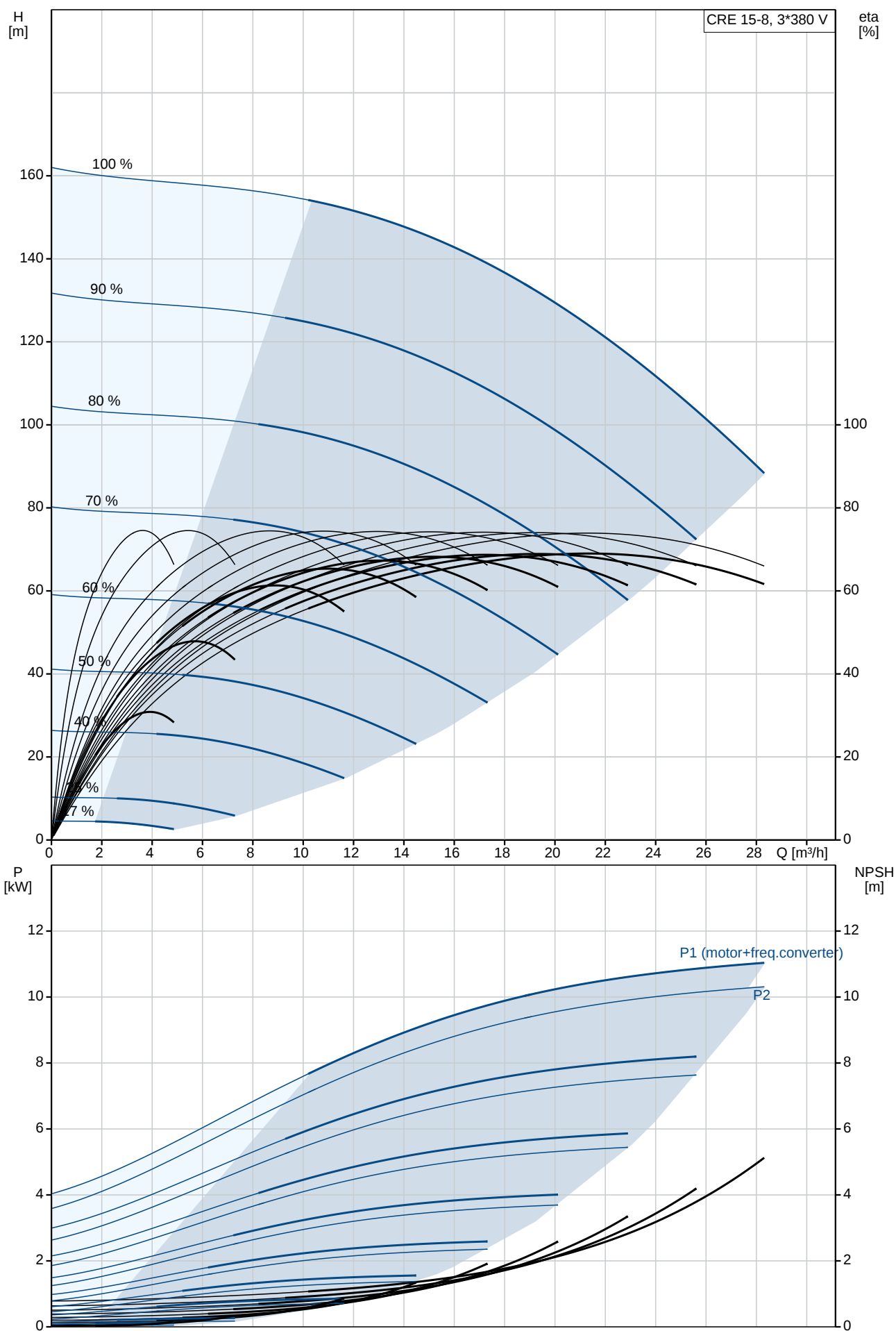
Position	Qty.	Description
	1	CRE 15-8 N-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: On request Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges. The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2. The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status: • "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) • "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) • "Alarm": Motor has stopped (flashing red indicator lights). Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". Further product details The pump is equipped with a pressure sensor registering pump outlet pressure and enabling controlled pump operation based on constant pressure. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status: • "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) • "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) • "Alarm": Motor has stopped (flashing red indicator lights). Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements: 1) Alkaline-based cleaning.

Position	Qty.	Description
		2) Zinc phosphating. 3) Cathodic electro-deposition. 4) Curing to a dry film thickness 18-22 my m. The colour code for the finished product is NCS 9000/RAL 9005. Pump A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.  The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.  The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal. Primary seal: • Rotating seal ring material: silicon carbide (SiC) • Stationary seat material: silicon carbide (SiC) This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles. Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.  The shaft seal is screwed into the pump head. The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency. The base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate. 

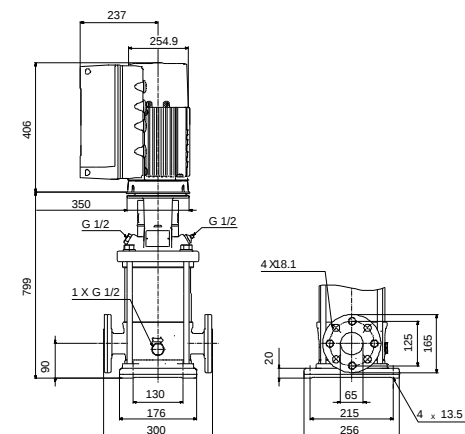
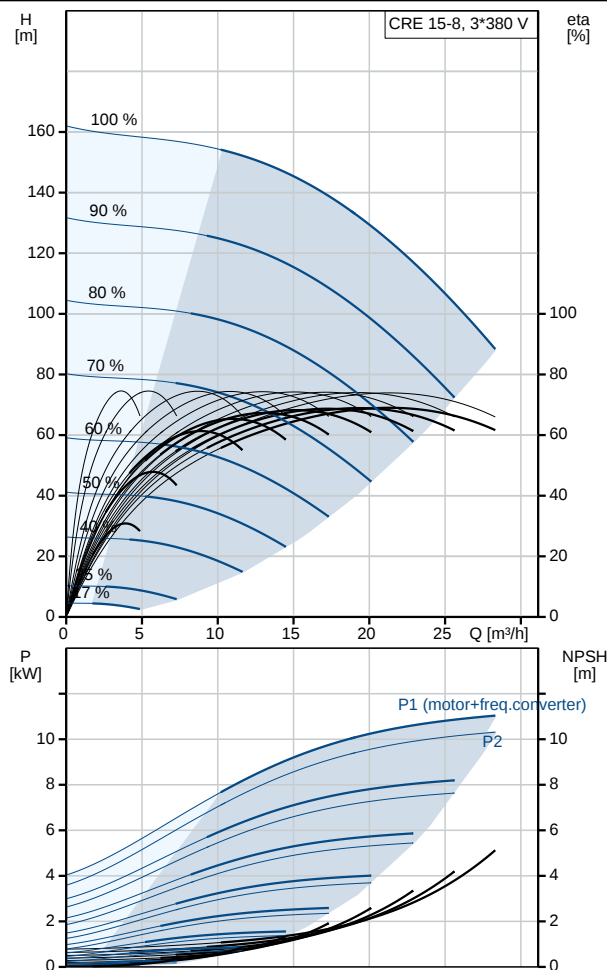
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		Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF). Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2. The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions. Technical data Controls: <table><tr><td>Frequency converter:</td><td>Built-in</td></tr><tr><td>Pressure sensor:</td><td>Y</td></tr></table> Liquid: <table><tr><td>Pumped liquid:</td><td>Water</td></tr><tr><td>Liquid temperature range:</td><td>-20 .. 120 °C</td></tr><tr><td>Liquid temperature during operation:</td><td>20 °C</td></tr><tr><td>Density:</td><td>998.2 kg/m³</td></tr></table> Technical: <table><tr><td>Rated flow:</td><td>20.5 m³/h</td></tr><tr><td>Rated head:</td><td>130.1 m</td></tr><tr><td>Pump orientation:</td><td>Vertical</td></tr><tr><td>Shaft seal arrangement:</td><td>Single</td></tr><tr><td>Code for shaft seal:</td><td>HQQE</td></tr><tr><td>Approvals on nameplate:</td><td>CE, EAC,ACS</td></tr><tr><td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr></table> Materials: <table><tr><td>Base:</td><td>Cast iron EN 1561 EN-GJL-200 ASTM A48-25B</td></tr><tr><td>Impeller:</td><td>Stainless steel EN 1.4301 AISI 304</td></tr><tr><td>Bearing:</td><td>SIC</td></tr></table> Installation: <table><tr><td>Maximum ambient temperature:</td><td>50 °C</td></tr><tr><td>Maximum operating pressure:</td><td>16 bar</td></tr><tr><td>Max pressure at stated temp:</td><td>16 bar / 120 °C 16 bar / -20 °C</td></tr><tr><td>Type of connection:</td><td>DIN</td></tr><tr><td>Size of inlet connection:</td><td>DN 50</td></tr><tr><td>Size of outlet connection:</td><td>DN 50</td></tr><tr><td>Pressure rating for pipe connection:</td><td>PN 25</td></tr><tr><td>Flange rating inlet:</td><td>300 lb</td></tr><tr><td>Flange size for motor:</td><td>FF300</td></tr></table> Electrical data: <table><tr><td>Motor standard:</td><td>IEC</td></tr><tr><td>Motor type:</td><td>160MH</td></tr><tr><td>IE Efficiency class:</td><td>IE5</td></tr><tr><td>Rated power - P2:</td><td>11 kW</td></tr><tr><td>Power (P2) required by pump:</td><td>11 kW</td></tr><tr><td>Mains frequency:</td><td>50 Hz</td></tr><tr><td>Rated voltage:</td><td>3 x 380-500 V</td></tr><tr><td>Rated current:</td><td>20.3-16.0 A</td></tr><tr><td>Cos phi - power factor:</td><td>0.93-0.90</td></tr><tr><td>Rated speed:</td><td>360-4000 rpm</td></tr><tr><td>Efficiency:</td><td>93.1%</td></tr><tr><td>Motor efficiency at full load:</td><td>93.1 %</td></tr><tr><td>Enclosure class (IEC 34-5):</td><td>IP55</td></tr><tr><td>Insulation class (IEC 85):</td><td>F</td></tr></table>	Frequency converter:	Built-in	Pressure sensor:	Y	Pumped liquid:	Water	Liquid temperature range:	-20 .. 120 °C	Liquid temperature during operation:	20 °C	Density:	998.2 kg/m³	Rated flow:	20.5 m³/h	Rated head:	130.1 m	Pump orientation:	Vertical	Shaft seal arrangement:	Single	Code for shaft seal:	HQQE	Approvals on nameplate:	CE, EAC,ACS	Curve tolerance:	ISO9906:2012 3B	Base:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B	Impeller:	Stainless steel EN 1.4301 AISI 304	Bearing:	SIC	Maximum ambient temperature:	50 °C	Maximum operating pressure:	16 bar	Max pressure at stated temp:	16 bar / 120 °C 16 bar / -20 °C	Type of connection:	DIN	Size of inlet connection:	DN 50	Size of outlet connection:	DN 50	Pressure rating for pipe connection:	PN 25	Flange rating inlet:	300 lb	Flange size for motor:	FF300	Motor standard:	IEC	Motor type:	160MH	IE Efficiency class:	IE5	Rated power - P2:	11 kW	Power (P2) required by pump:	11 kW	Mains frequency:	50 Hz	Rated voltage:	3 x 380-500 V	Rated current:	20.3-16.0 A	Cos phi - power factor:	0.93-0.90	Rated speed:	360-4000 rpm	Efficiency:	93.1%	Motor efficiency at full load:	93.1 %	Enclosure class (IEC 34-5):	IP55	Insulation class (IEC 85):	F
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Position	Qty.	Description
		Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 122 kg Gross weight: 154 kg Shipping volume: 0.619 m ³ Danish VVS No.: 386004108

On request CRE 15-8 N-F-A-E-HQQE 50 Hz

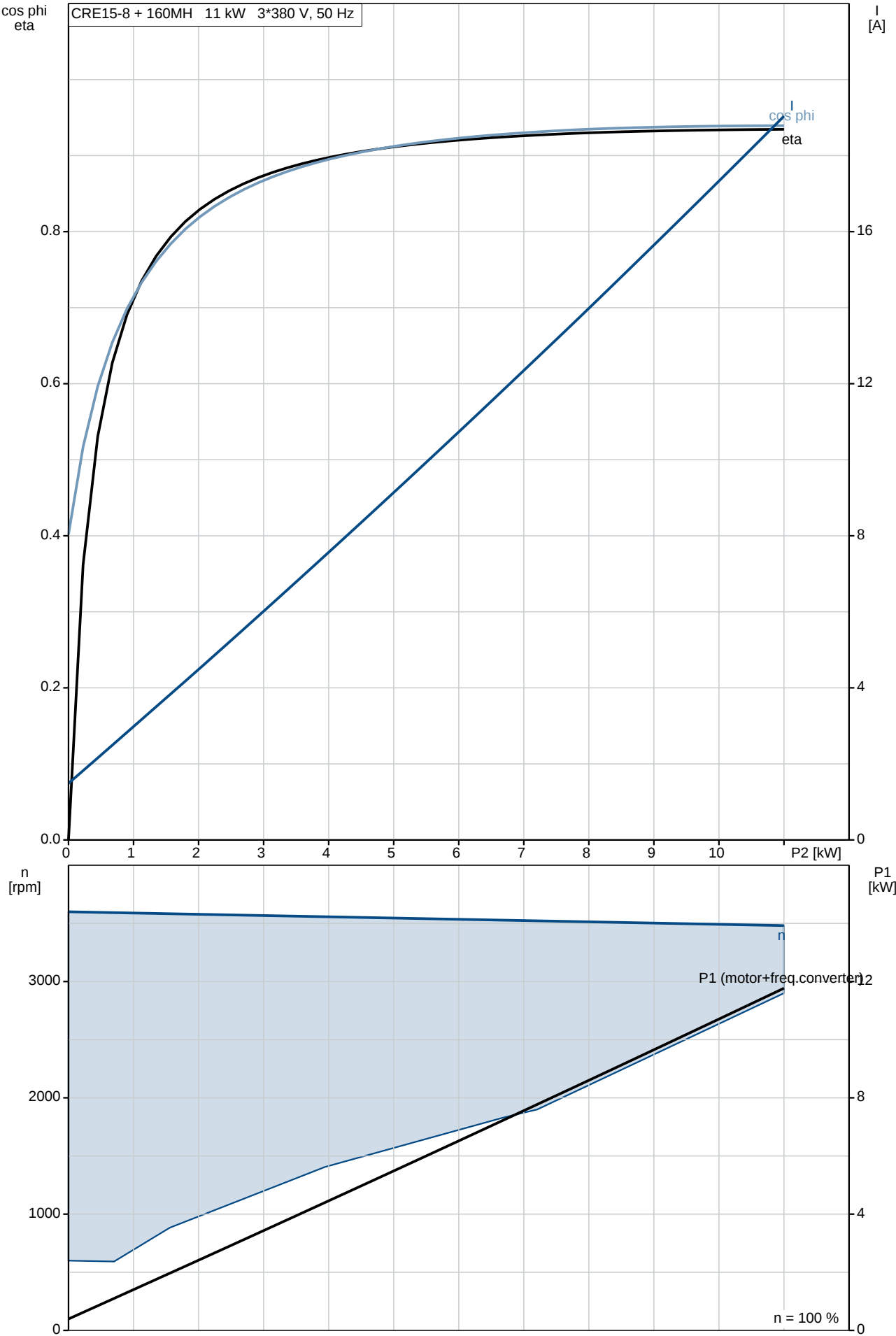


Description	Value
General information:	
Product name:	CRE 15-8 N-F-A-E-HQQE
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	20.5 m³/h
Rated head:	130.1 m
Stages:	8
Impellers:	8
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	N
Model:	A
Materials:	
Base:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	50 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
	16 bar / -20 °C
Type of connection:	DIN
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50
Pressure rating for pipe connection:	PN 25
Flange rating inlet:	300 lb
Flange size for motor:	FF300
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
Motor type:	160MH
IE Efficiency class:	IE5
Rated power - P2:	11 kW
Power (P2) required by pump:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-500 V
Rated current:	20.3-16.0 A
Cos phi - power factor:	0.93-0.90
Rated speed:	360-4000 rpm
Efficiency:	93.1%
Motor efficiency at full load:	93.1 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	98971053
Controls:	

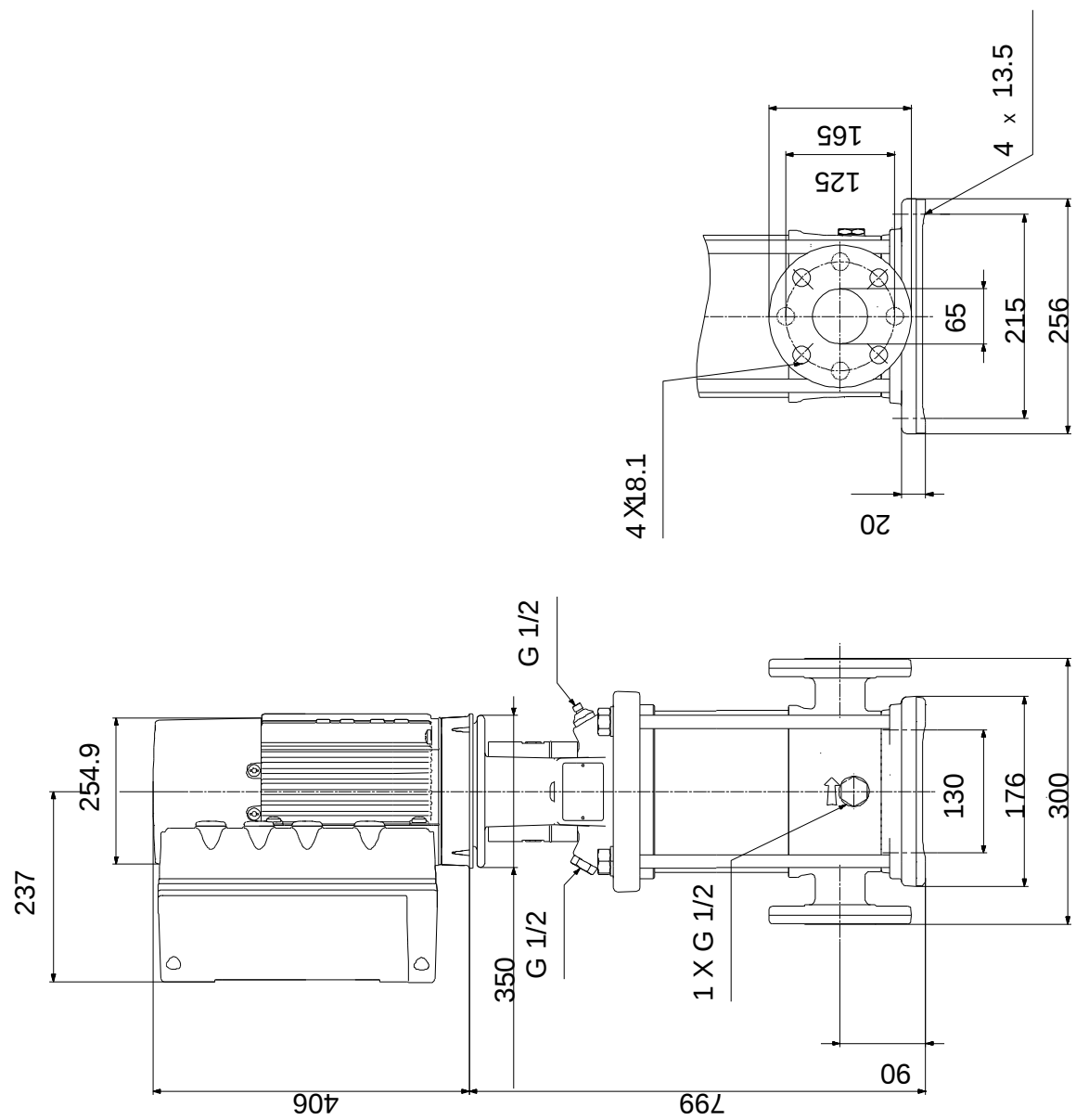


Description	Value
Control panel:	Standard
Function Module:	300
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	122 kg
Gross weight:	154 kg
Shipping volume:	0.619 m ³
Danish VVS No.:	386004108

On request CRE 15-8 N-F-A-E-HQQE 50 Hz

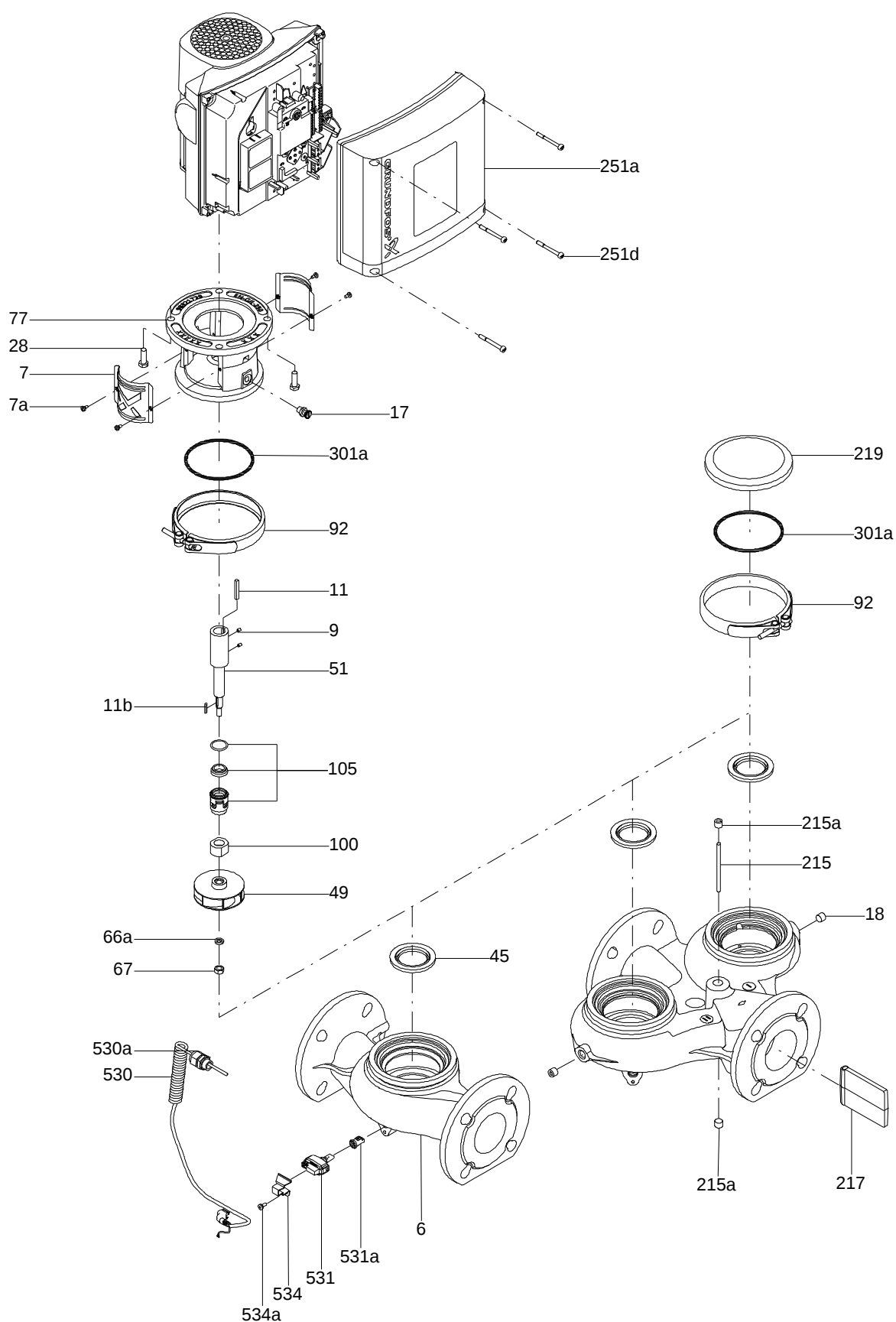


On request CRE 15-8 N-F-A-E-HQQE 50 Hz



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 CRE 15-8, Product No. On request
Valid from 1.1.2004 (0401)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+	Motor				1	pcs
-	Base cpl.				1	pcs
6	Base				1	
25	Drain plug				1	
	Pressure transmitter				1	pcs
-	Rubber module				1	pcs
20	Spring				4	
37	O-ring				2	
38	O-ring		Diameter: 16,3		1	
			Material type: EPDM			
			Thickness: 2,4			
38a	O-ring		Diameter: 5,3		1	
			Material type: EPDM			
			Thickness: 2,4			
100	O-ring		Diameter: 16,3		2	
			Material type: EPDM			
			Thickness: 2,4			
- 2	Pump head				1	pcs
1	Flange				1	
2	Pump head				1	
7	Coupling guard				2	
7.a	Combi Slot Torx screw				4	
- 18	Air vent screw				1	
	Plug				1	
	Spindle				1	
28	Hex head screw		Length (mm): 25		4	
			Thread: M12			
28a	Hex head screw		Length (mm): 45		4	
			Thread: M16			
36	Hex nut		Thread: M16		4	
76	Nameplate				1	
76a	Rivet				2	
- 8	Coupling				1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
10a	Coupling half				2	
26	Staybolt				4	pcs
36	Hex nut		Thread: M16		4	pcs
55	Outer sleeve				1	pcs
66a	Washer		Designation: DIN 125 A		4	pcs
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
- 80	Chamber stack				1	pcs
- 4	Intermediate chamber cpl.				5	
45	Neck ring cpl.				1	
65	Retainer for upper seal ring				1	
- 4	Intermediate chamber cpl.				1	
	Guide vane				10	
	Front plate				1	
3	Top intermediate chamber				1	
- 4a	Intermediate chamber cpl.				2	
	Bearing plate				1	
	Bearing bush				1	
3a	Intermediate chamber				1	
45	Neck ring cpl.				1	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
65	Retainer for upper seal ring				1	
26.b	Hex head screw				2	
26.b	Washer		Designation: DIN 125A		2	
			Thickness: 1,6			
26a	Strap cpl.				2	
36	Lock nut		Thread: M8		1	
- 44a	Inlet part cpl.				1	
45	Neck ring cpl.				1	
65	Retainer for upper seal ring				1	
44b	Inlet part				1	
47a	Bearing ring				2	
+ 49	Impeller cpl.				8	
- 51	Shaft, spline, cpl.				1	
	Bar				0	
62	Stop ring				1	
64b	Spacing bush		Length (mm): 5.00		1	
64b	Spacing bush				2	
64c	Spacing pipe		Length (mm): 12.7		1	
66	Wedge lock washer				1	
69	Spacing pipe		Length (mm): 43.6		5	
69	Spacing pipe		Internal diameter: 17,5		2	
			Length (mm): 17			
69	Spacing bush				1	
105	Shaft seal		Material type: HQQE		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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