

NKE50-125/138A2F2AE-SGQQE

Grundfos Pump 98111819



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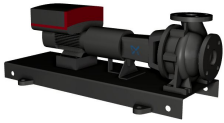
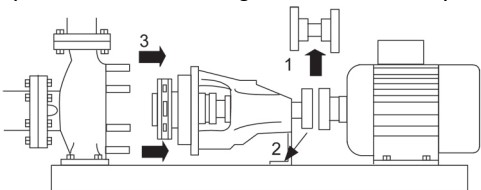
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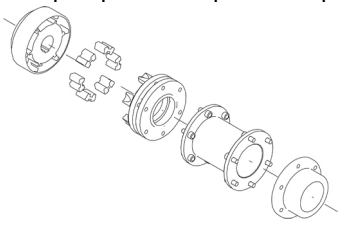
<https://www.lenntech.com/grundfos/NKEBASIS/98111819/NKE-50-125-138-A2-F-A-E-GQQE.html>

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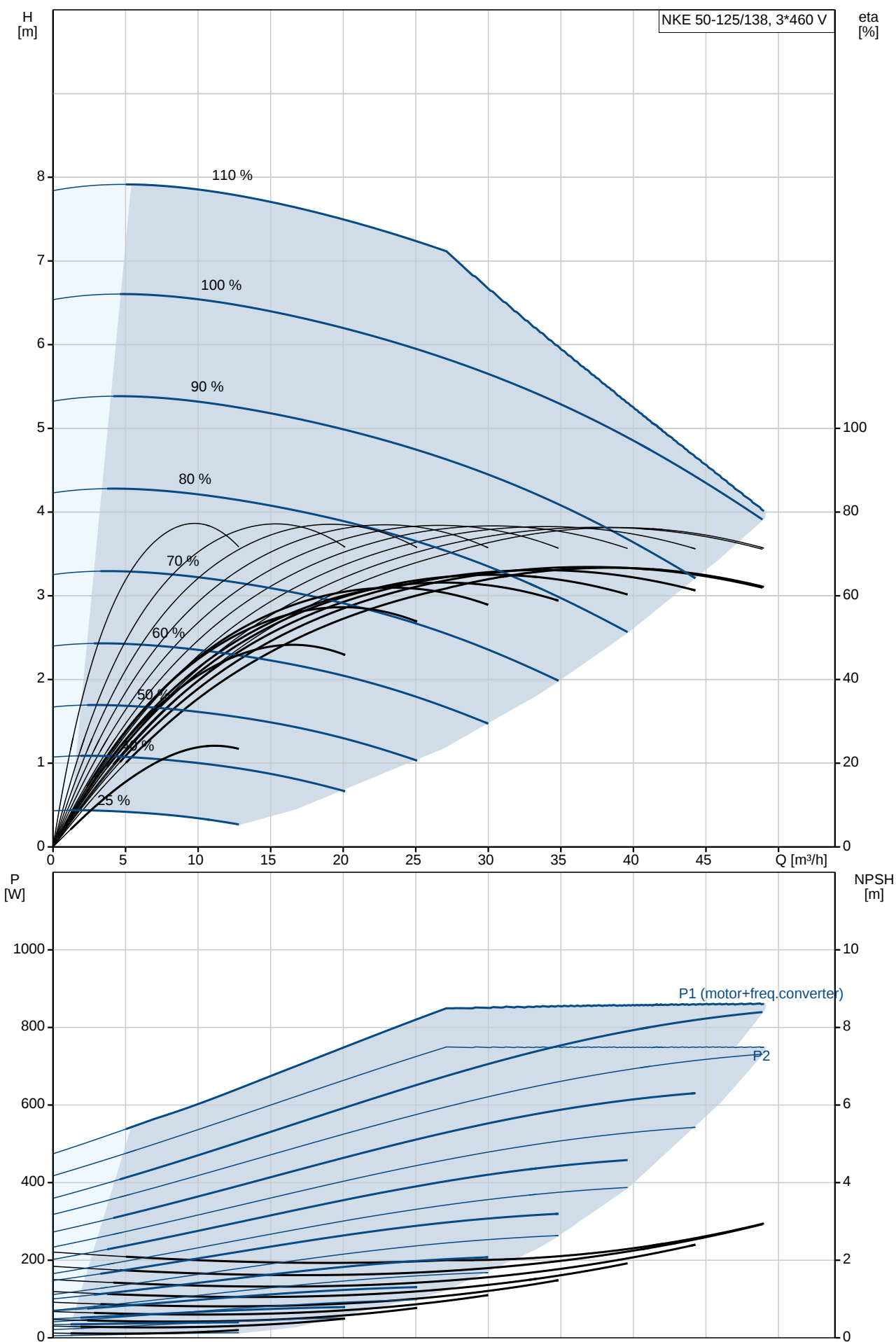
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Position	Qty.	Description
	1	NKE 50-125/138 A2-F-A-E-GQQE  Product No.: 98111819 Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, a radial discharge port and horizontal shaft. It is of the back pull-out design enabling removal of the coupling, bearing bracket and impeller without disturbing the motor, pump housing or pipework. The unbalanced rubber bellows shaft seal with reduced seal face is according to DIN EN 12756. The pump is fitted with a foot-mounted, fan-cooled, permanent-magnet synchronous motor. Pump and motor are mounted on a common base frame. 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. Further product details An external sensor can be connected if controlled pump operation is required for flow, differential pressure or temperature control. A control 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 control 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 the 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". Pump and motor are mounted on a common steel base frame in accordance with ISO 3661. The back pull-out design together with a spacer coupling makes it possible to make service on the pump without dismantling the pump housing and motor from the base frame. This saves realignment of pump and motor after service. 1) Remove coupling. 2) Remove the bolts in the bearing bracket support foot. 3) Remove the bearing bracket from the pump housing.  Cast-iron parts 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. 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.

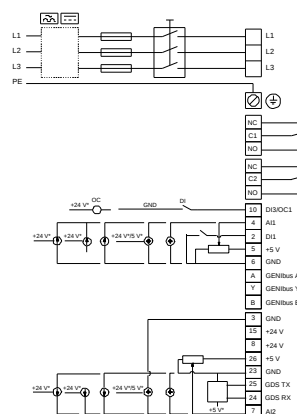
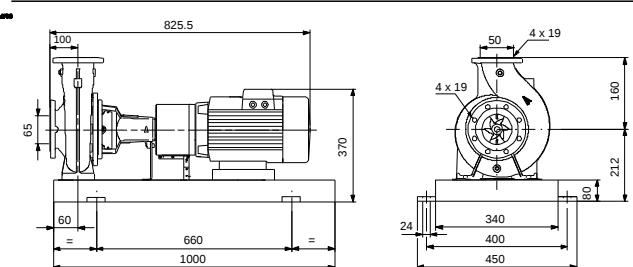
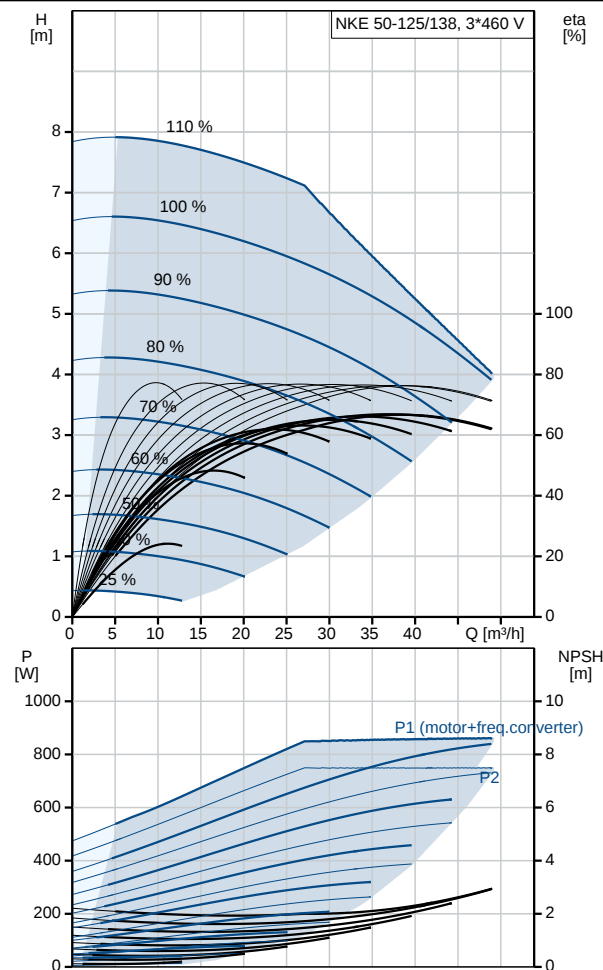
Position	Qty.	Description
		Pump The pump housing has both a priming and a drain hole closed by plugs. The impeller is a closed impeller with double-curved blades with smooth surfaces. The impeller is statically balanced according to ISO 1940-1 class G6.3 and hydraulically balanced to compensate for axial thrust. Wear rings used in pump housing and for impeller are made of bronze/brass or cast iron. The shaft seal is an unbalanced rubber bellows seal with reduced seal face. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft. The narrow seal face makes the seal perform well in high-viscosity and anti-freezing liquids. 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 is made of stainless steel and has a diameter of 24 mm where the coupling is mounted. The pump uses a spacer coupling between the pump and motor shaft.  Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards and mounting designation B3 (IM 1001). 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. The terminal box holds terminals for these connections: - one dedicated digital input - two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V - 5 V voltage supply to potentiometer and sensor - one configurable digital input or open-collector output - Grundfos Digital Sensor input and output - 24 V voltage supply for sensors - two signal relay outputs (potential-free contacts) - GENIbus connection - interface for Grundfos CIM fieldbus module. Technical data Liquid: Pumped liquid: Water Liquid temperature range: -25 .. 60 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Speed for pump data: 1450 rpm Rated flow: 37 m³/h Rated head: 5.1 m Actual impeller diameter: 138 mm Impeller nom: 125 mm Primary shaft seal: GQQE Secondary shaft seal: NONE Curve tolerance: ISO9906:2012 3B

Position	Qty.	Description
		Materials: Pump housing: Cast iron EN-GJL-250 ASTM A48-40 B Impeller: Cast iron EN-GJL-200 ASTM A48-30 B Rubber: EPDM Wear ring mat.: Bronze (CuSn10) Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar Flange standard: EN 1092-2 Pump inlet: DN 65 Pump outlet: DN 50 Pressure rating: PN 16 Coupling type: Spacer Base frame: EN / ISO Electrical data: Motor type: 80C IE Efficiency class: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1,70-1,50 A Cos phi - power factor: 0,83-0,71 Rated speed: 180-2000 rpm Efficiency: 86,7% Motor efficiency at full load: 86.7 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Lubricant type: Grease Others: Minimum efficiency index, MEI ≥: 0.60 ErP status: EuP Standalone/Prod. Net weight: 107 kg Gross weight: 128 kg Shipping volume: 0.674 m³

98111819 NKE 50-125/138 50 Hz

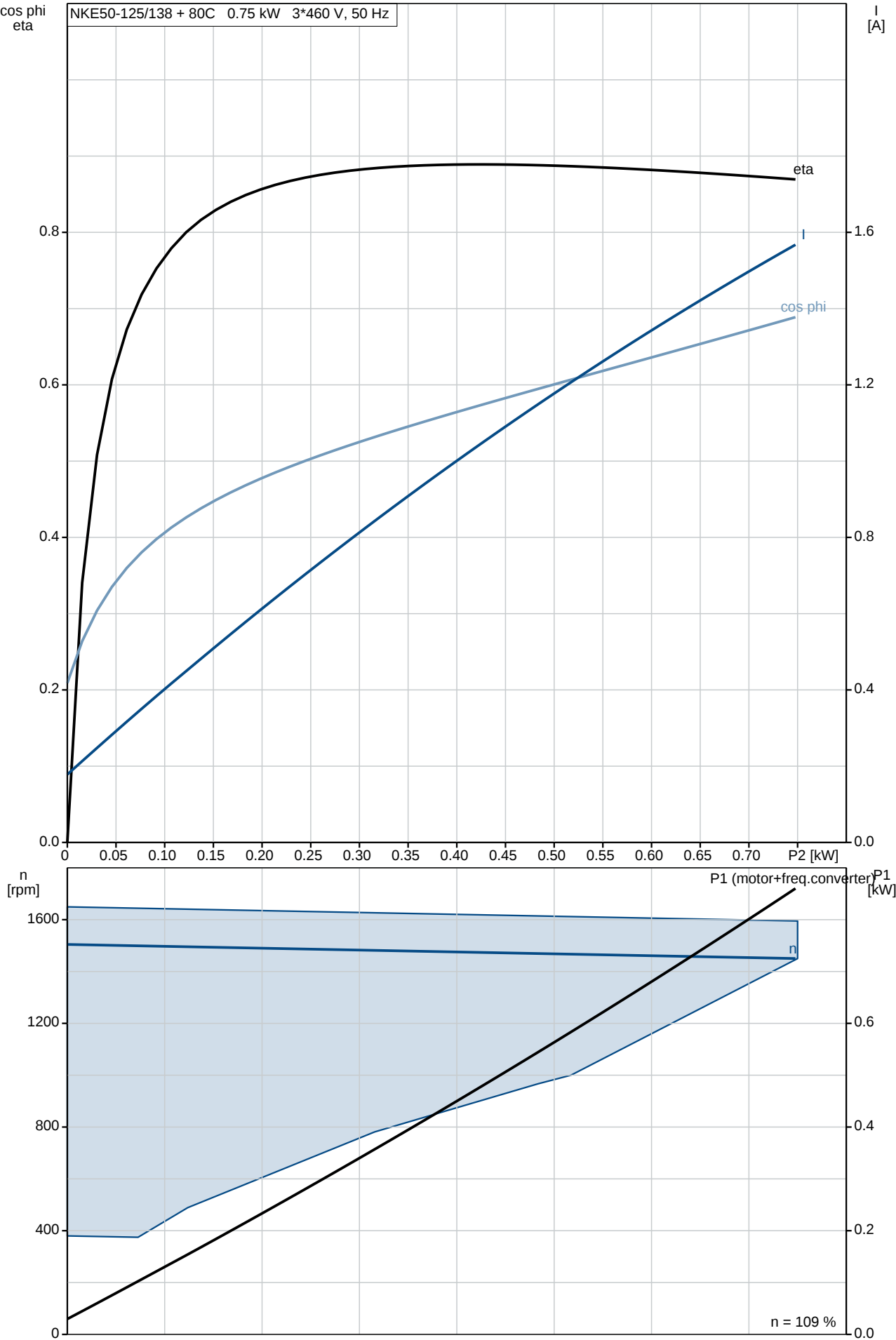


Description	Value
General information:	
Product name:	NKE 50-125/138 A2-F-A-E-GQQE
Product No:	98111819
EAN number:	5710629206671
Technical:	
Speed for pump data:	1450 rpm
Rated flow:	37 m³/h
Rated head:	5.1 m
Actual impeller diameter:	138 mm
Impeller nom:	125 mm
Primary shaft seal:	GQQE
Secondary shaft seal:	NONE
Shaft diameter:	24 mm
Curve tolerance:	ISO9906:2012 3B
Pump version:	A2
Materials:	
Pump housing:	Cast iron EN-GJL-250 ASTM A48-40 B
Impeller:	Cast iron EN-GJL-200 ASTM A48-30 B
Material code:	A
Rubber:	EPDM
Code for rubber:	E
Wear ring mat.:	Bronze (CuSn10)
Installation:	
Maximum ambient temperature:	50 °C
Maximum operating pressure:	16 bar
Flange standard:	EN 1092-2
Connect code:	F
Pump inlet:	DN 65
Pump outlet:	DN 50
Pressure rating:	PN 16
Coupling type:	Spacer
Wear ring(s):	neckring(s)
Base frame:	EN / ISO
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 60 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	80C
IE Efficiency class:	IE5
Rated power - P2:	0.75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-500 V
Rated current:	1,70-1,50 A
Cos phi - power factor:	0,83-0,71
Rated speed:	180-2000 rpm
Efficiency:	86,7%
Motor efficiency at full load:	86.7 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	98248285
Lubricant type:	Grease
Controls:	
Control panel:	HMI200 - Standard
Function Module:	FM200 - Standard
Others:	

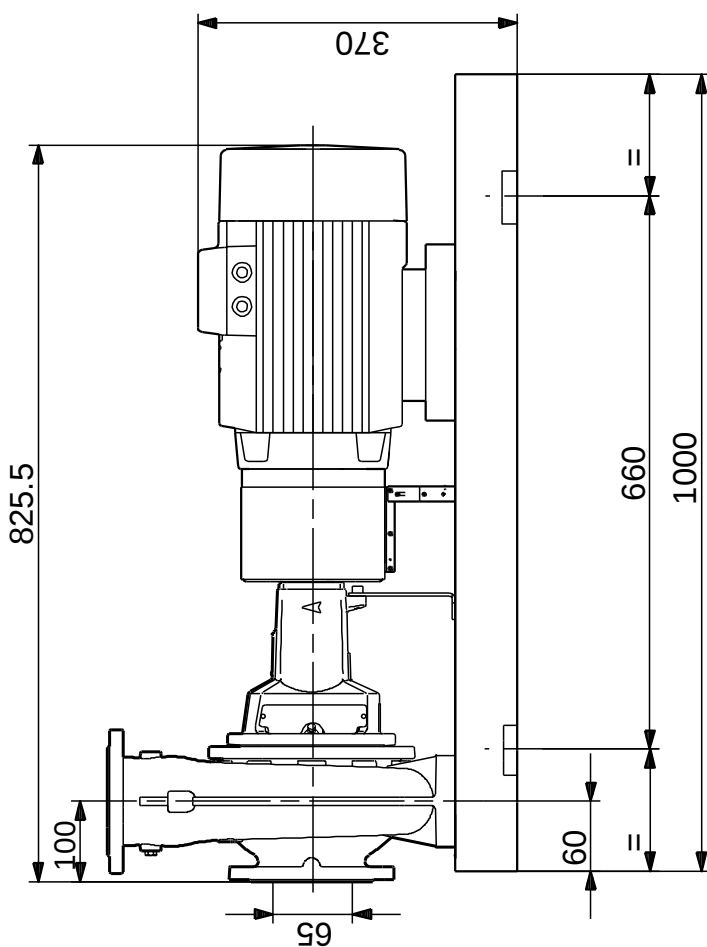
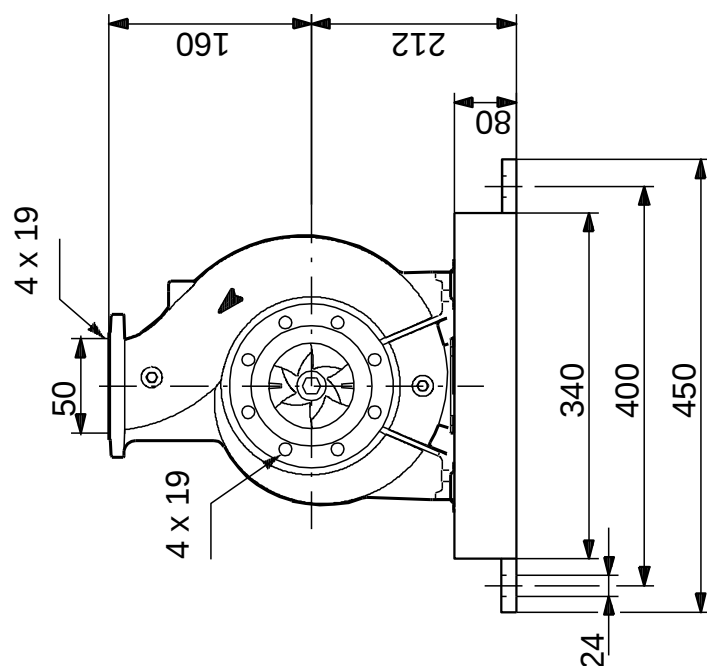


Description	Value
Minimum efficiency index, MEI ≥:	0.60
ErP status:	EuP Standalone/Prod.
Net weight:	107 kg
Gross weight:	128 kg
Shipping volume:	0.674 m ³
Config. file no:	98478687

98111819 NKE 50-125/138 50 Hz

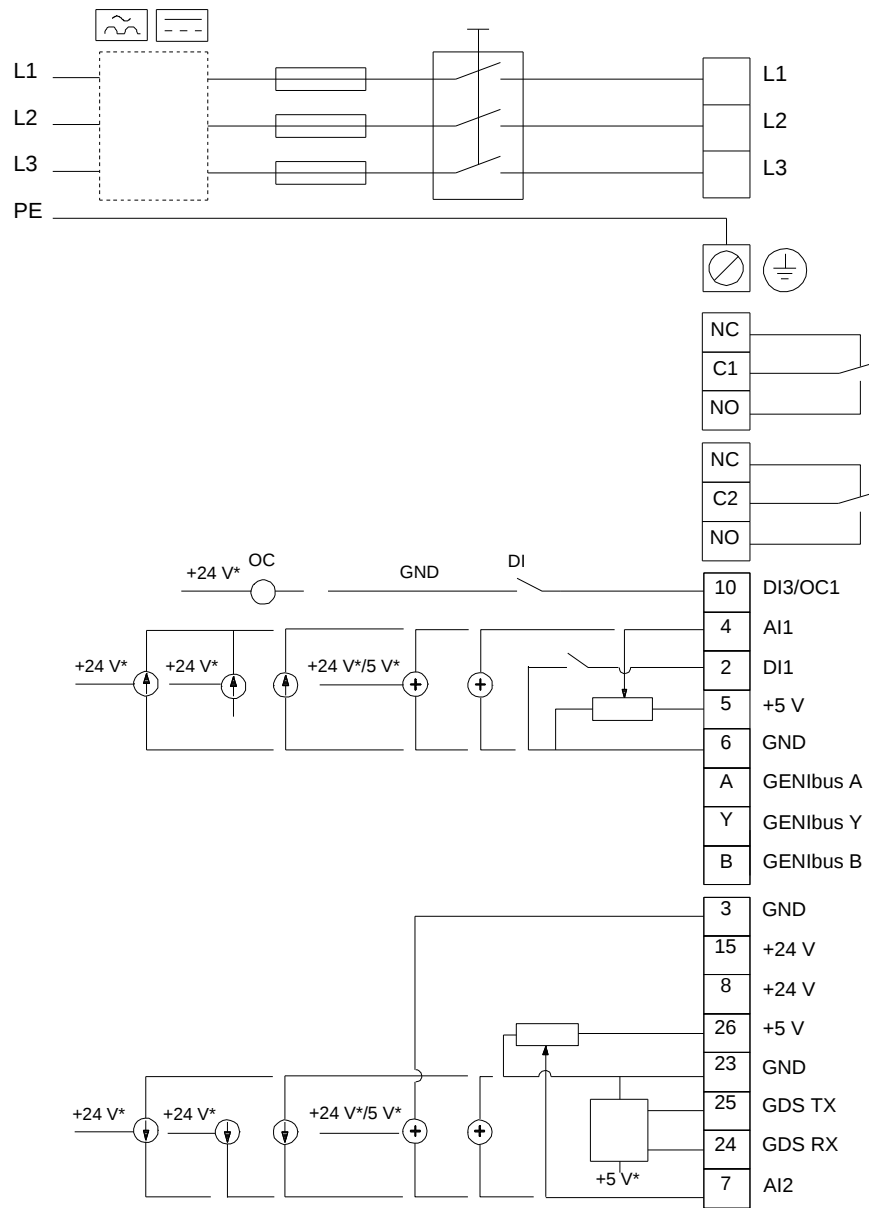


98111819 NKE 50-125/138 50 Hz



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

98111819 NKE 50-125/138 50 Hz



Note! All units are in [mm] unless others are stated.

*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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