Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:
	TYPE OF SERVICE:	
REPRESENTATIVE:	SUBMITTED BY:	DATE:
ENGINEER:	APPROVED BY:	DATE:
CONTRACTOR:	ORDER NO.:	DATE:

Note! Product picture may differ from actual product

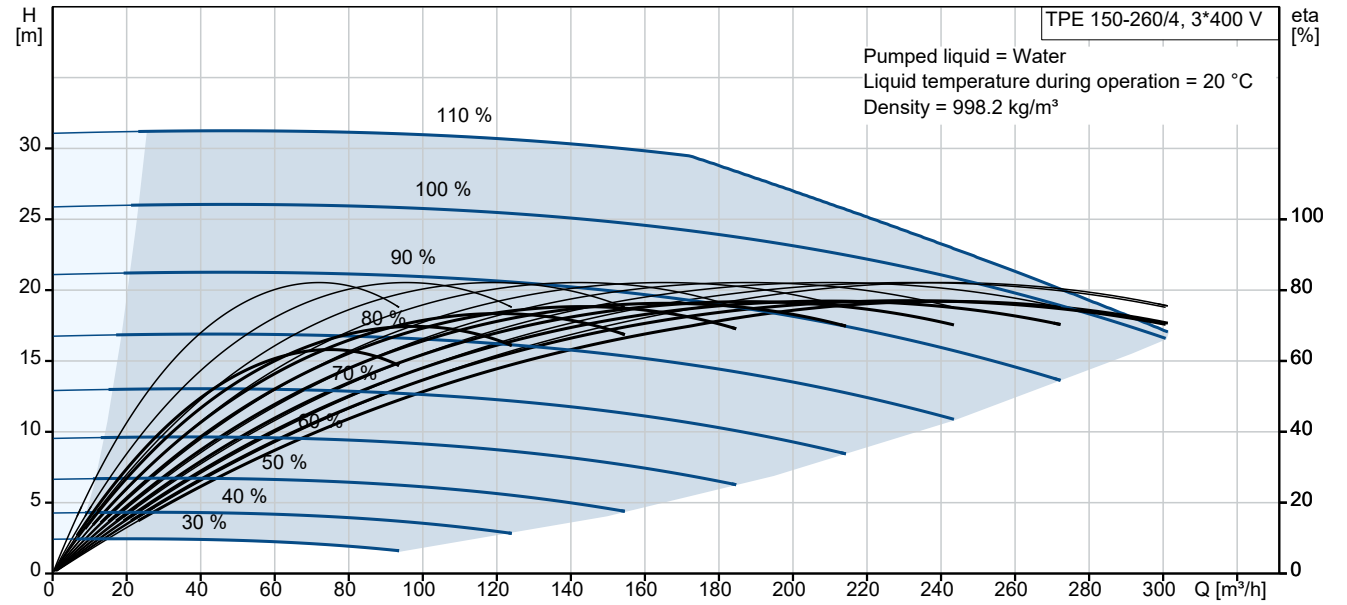
TPE 150-260/4 A3-F-O-DQQE-PWA

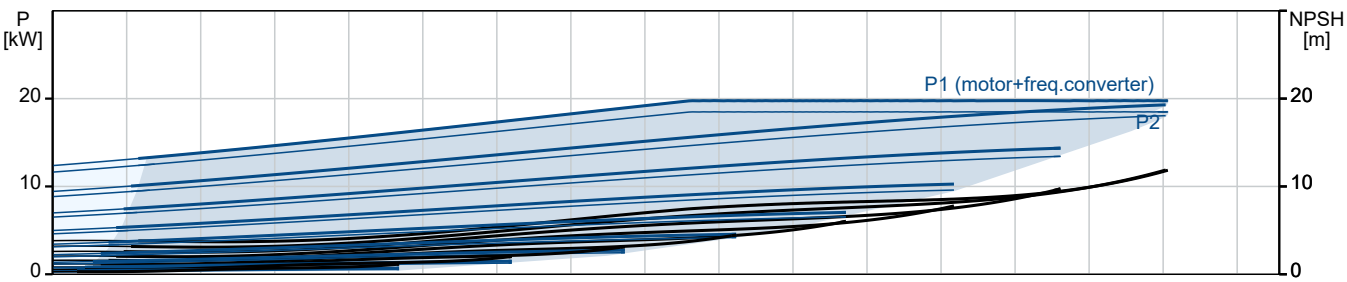
Grundfos TPE Series 1000, TPE2 pumps are single-stage, close-coupled in-line centrifugal pumps with mechanical shaft seal and primely for applications such as heating/cooling/district energy. The pumps are fitted with frequency controlled motors.

Conditions of Service	
Liquid:	Water
Temperature:	20 °C
Specific Gravity:	1.000

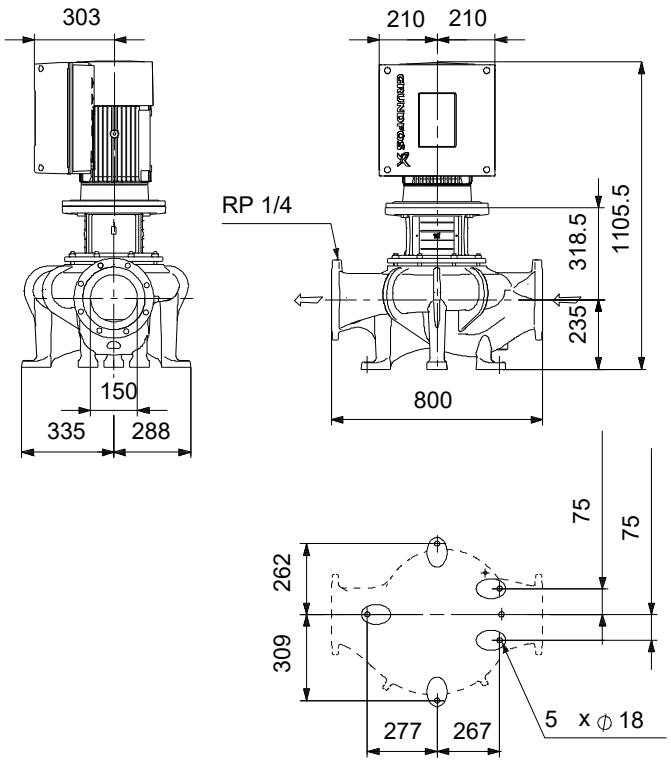
Pump Data	
Max pressure at stated temp:	25 bar / 140 °C
Liquid temperature range:	-40 .. 140 °C
Maximum ambient temperature:	50 °C
Shaft seal:	DQQE
Product number:	On request

Motor Data	
Rated voltage:	380-480 V
Mains frequency:	50 Hz
Enclosure class:	IP55
Insulation class:	F
Motor protection:	ELEC
Motor type:	180MF
Eta 1/1:	93.2 %





Submittal Data



Materials:

Pump housing:	Ductile iron
Pump housing:	ASTM Grade 60-40-18
Impeller:	Cast iron
Impeller:	ASTM class 30
Impeller:	EN-GJL-200
Material code:	O

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Company name:
Created by:
Phone:

Date: 22/10/2024

Qty.	Description
1	**TPE 150-260/4 A3-F-O-DQQE-PWA**

Note! Product picture may differ from actual product

Product No.: On request

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.

The pump is fitted with a balanced O-ring seal. The shaft seal is according to EN 12756. Pipework connection is via PN 25 DIN flanges (EN 1092-2 and ISO 7005-2).

The pump is fitted with a fan-cooled, permanent-magnet synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

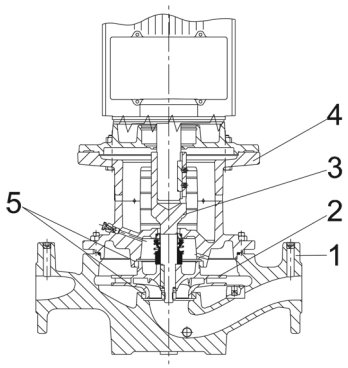
The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

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".

Pump



1: Pump housing
2: Impeller
3: Stub shaft
4: Pump head/motor stool
5: Wear rings

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.

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Qty.	Description
1	The pump is fitted with a balanced O-ring seal. Due to the balancing, this seal type is suitable for high-pressure applications. This seal type is excellent for high-viscosity, dirt- and fibre-containing liquids due to the spring location on the atmospheric side. The seal features a rigid torque-transmission design. Seal faces: • 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. A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. The flanges have tappings for mounting of pressure gauges. 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. 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. **Motor** The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. 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. **Further product details** **Technical data** Controls: Frequency converter: Built-in Liquid: Pumped liquid: Water Liquid temperature range: -40 .. 140 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 1465 rpm Rated flow: 232 m³/h Rated head: 21.5 m Actual impeller diameter: 275 mm Code for shaft seal: DQQE Curve tolerance: ISO9906:2012 3B Materials: Pump housing: Ductile iron EN-GJS-400-18-LT ASTM Grade 60-40-18 Impeller: Cast iron EN-GJL-200 ASTM class 30 Installation: Range of ambient temperature: -20 .. 50 °C Maximum operating pressure: 25 bar

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Phone:

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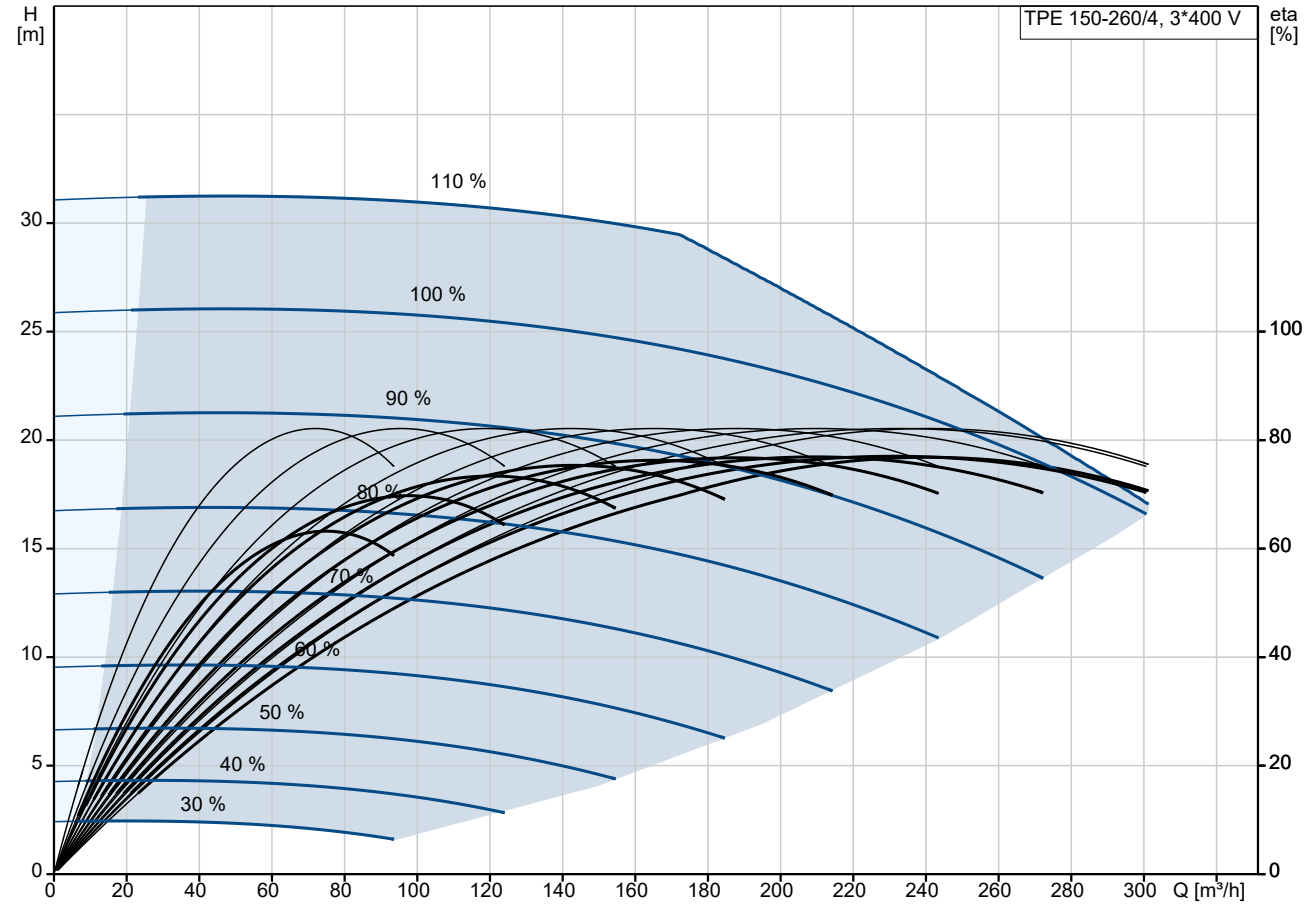
Qty.	Description	
1	Max pressure at stated temp:	25 bar / 140 °C
	Type of connection:	DIN
	Size of connection:	DN 150
	Pressure rating for connection:	PN 25
	Port-to-port length:	800 mm
	Flange size for motor:	FF300
	Electrical data:	
	Motor type:	180MF
	Rated power - P2:	18.5 kW
	Mains frequency:	50 Hz
	Rated voltage:	3 x 380-480 V
	Rated current:	33.2-26.9 A
	Cos phi - power factor:	0.94-0.93
	Rated speed:	180-2200 rpm
	IE Efficiency class:	IE5
	Motor efficiency at full load:	93.2 %
	Number of poles:	4
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	92875536
	Others:	
	Minimum efficiency index, MEI ≥:	0.70
	Net weight:	357 kg
	Gross weight:	453 kg
	Shipping volume:	1.68 m³
	Country of origin:	HU
	Custom tariff no.:	84137051

GRUNDFOS

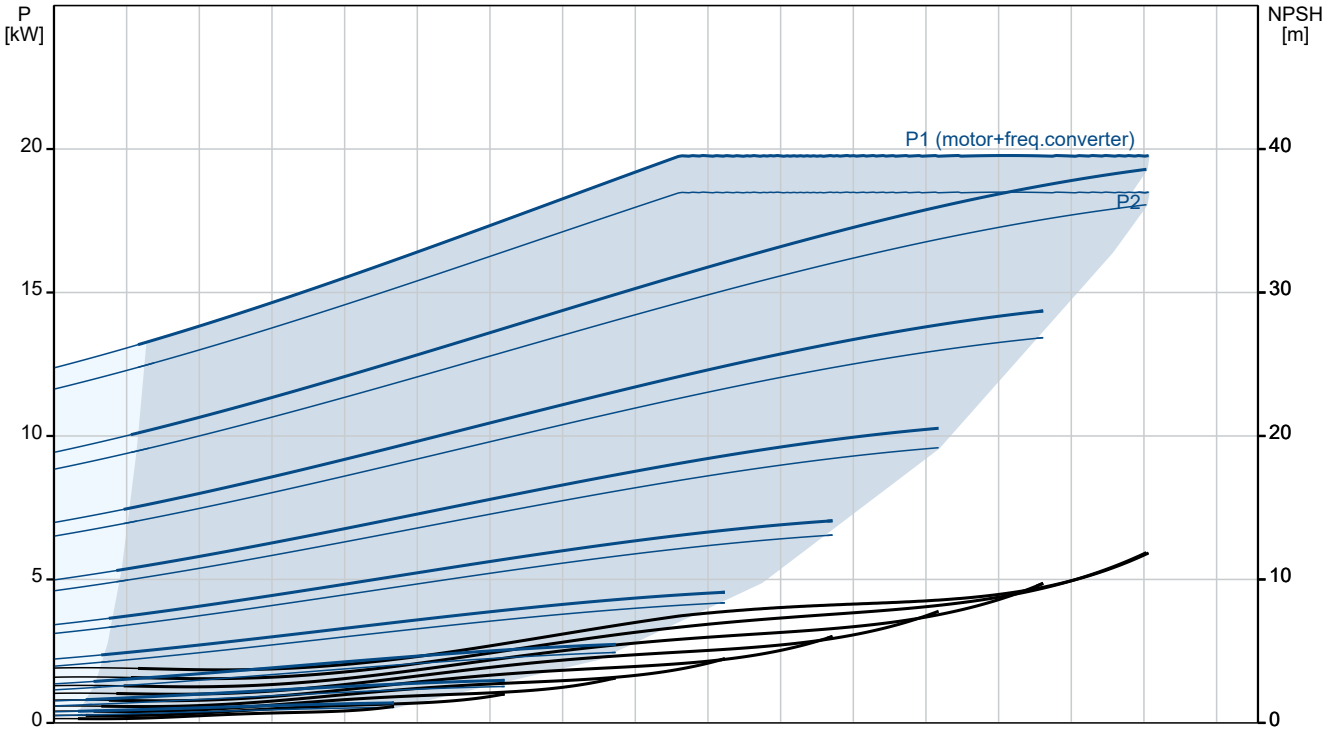
Company name:
Created by:
Phone:

Date: 22/10/2024

On request TPE 150-260/4 A3-F-O-DQQE-PWA 50 Hz



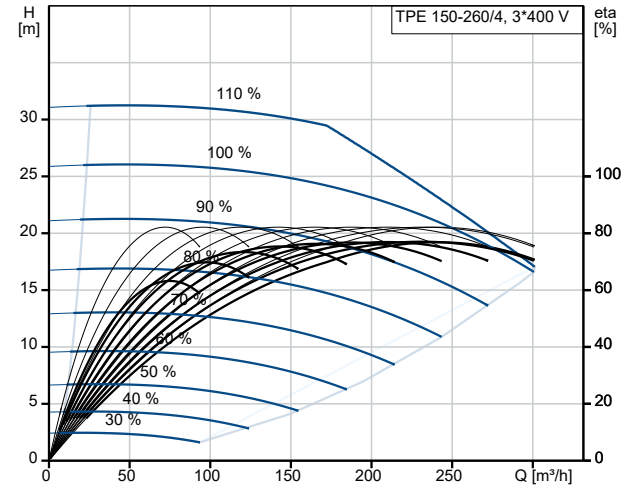
Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³



Company name:
Created by:
Phone:

Date: 22/10/2024

Description	Value
General information:	
Product name:	TPE 150-260/4 A3-F-O-DQQE-PWA
Product No:	On request
EAN number:	On request
Technical:	
Pump speed on which pump data are based:	1465 rpm
Rated flow:	232 m³/h
Rated head:	21.5 m
Maximum head:	260 dm
Actual impeller diameter:	275 mm
Code for shaft seal:	DQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A3
Materials:	
Pump housing:	Ductile iron
Pump housing:	EN-GJS-400-18-LT
Pump housing:	ASTM Grade 60-40-18
Impeller:	Cast iron
Impeller:	EN-GJL-200
Impeller:	ASTM class 30
Material code:	O
Installation:	
Range of ambient temperature:	-20 .. 50 °C
Maximum operating pressure:	25 bar
Max pressure at stated temp:	25 bar / 140 °C
Type of connection:	DIN
Size of connection:	DN 150
Pressure rating for connection:	PN 25
Port-to-port length:	800 mm
Flange size for motor:	FF300
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-40 .. 140 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	180MF
Rated power - P2:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	33.2-26.9 A
Cos phi - power factor:	0.94-0.93
Rated speed:	180-2200 rpm
IE Efficiency class:	IE5
Motor efficiency at full load:	93.2 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	ELEC
Motor No:	92875536
Controls:	
Control panel:	HMI200 - Standard
Function Module:	FM310 - Advanced
Frequency converter:	Built-in
Others:	



Pumped liquid = Water
Liquid temperature during operation = 20 °C
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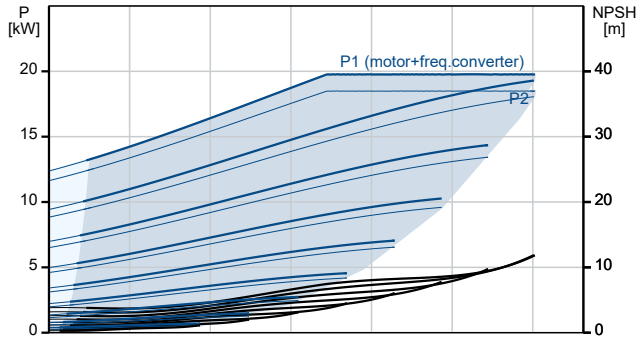

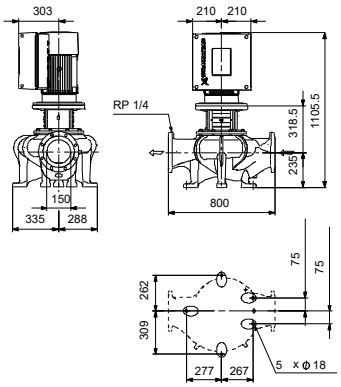

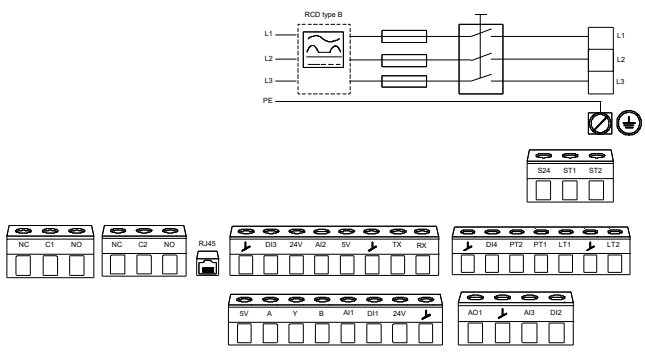

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Company name:
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Phone:

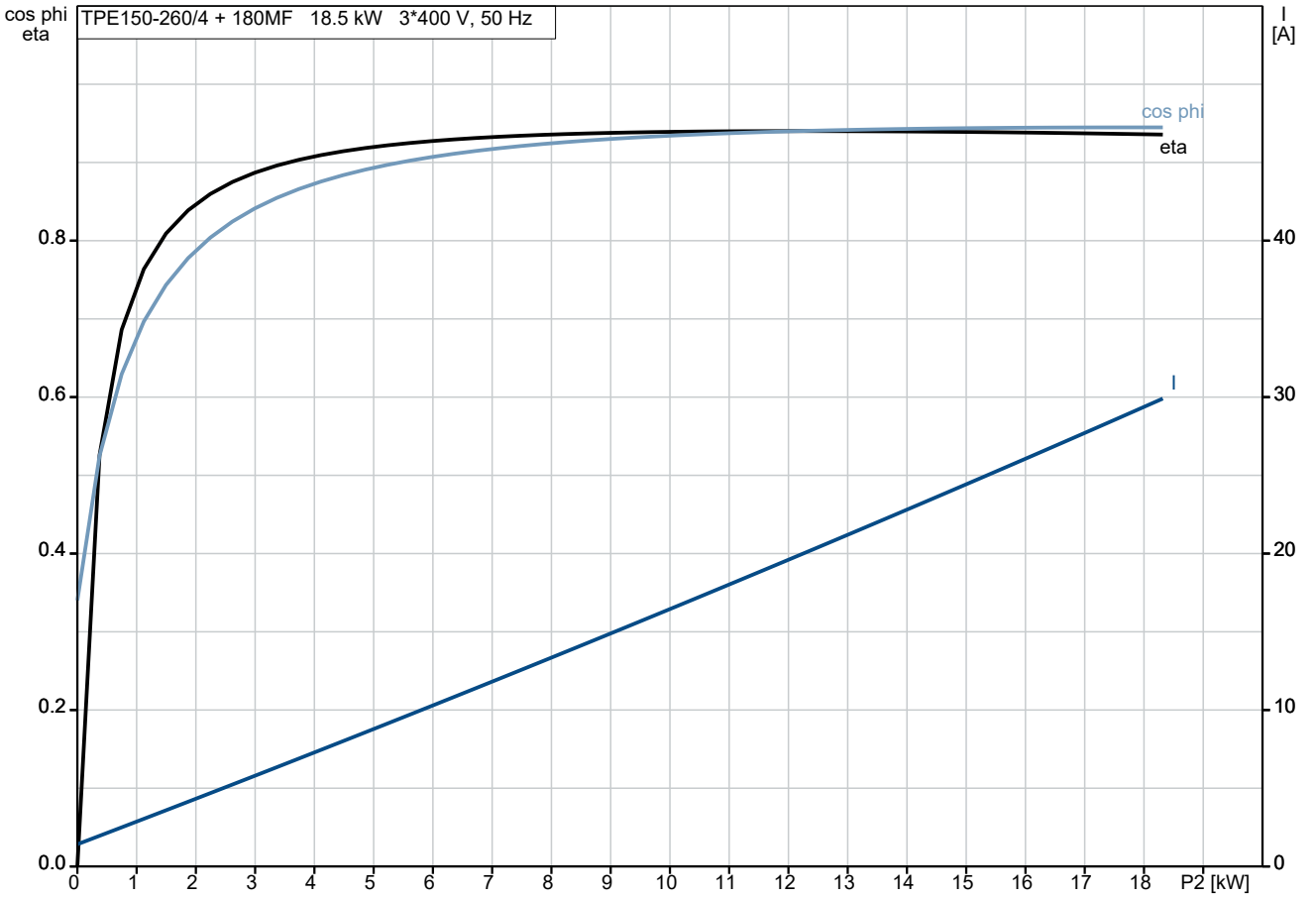
Date: 22/10/2024

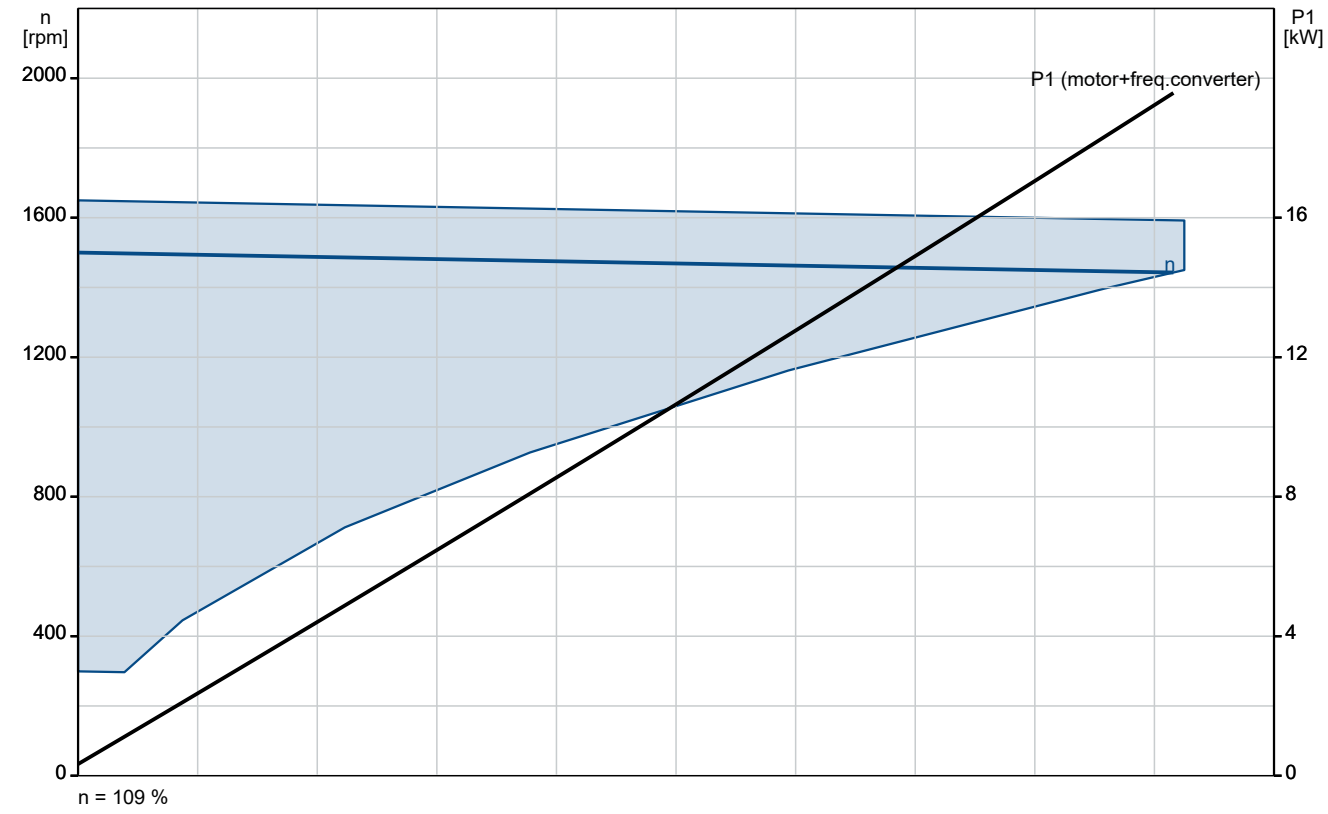
Description	Value
Minimum efficiency index, MEI ≥:	0.70
Net weight:	357 kg
Gross weight:	453 kg
Shipping volume:	1.68 m³
Config. file no:	92948774
Country of origin:	HU
Custom tariff no.:	84137051

Company name:
Created by:
Phone:

Date: 22/10/2024

On request TPE 150-260/4 A3-F-O-DQQE-PWA 50 Hz

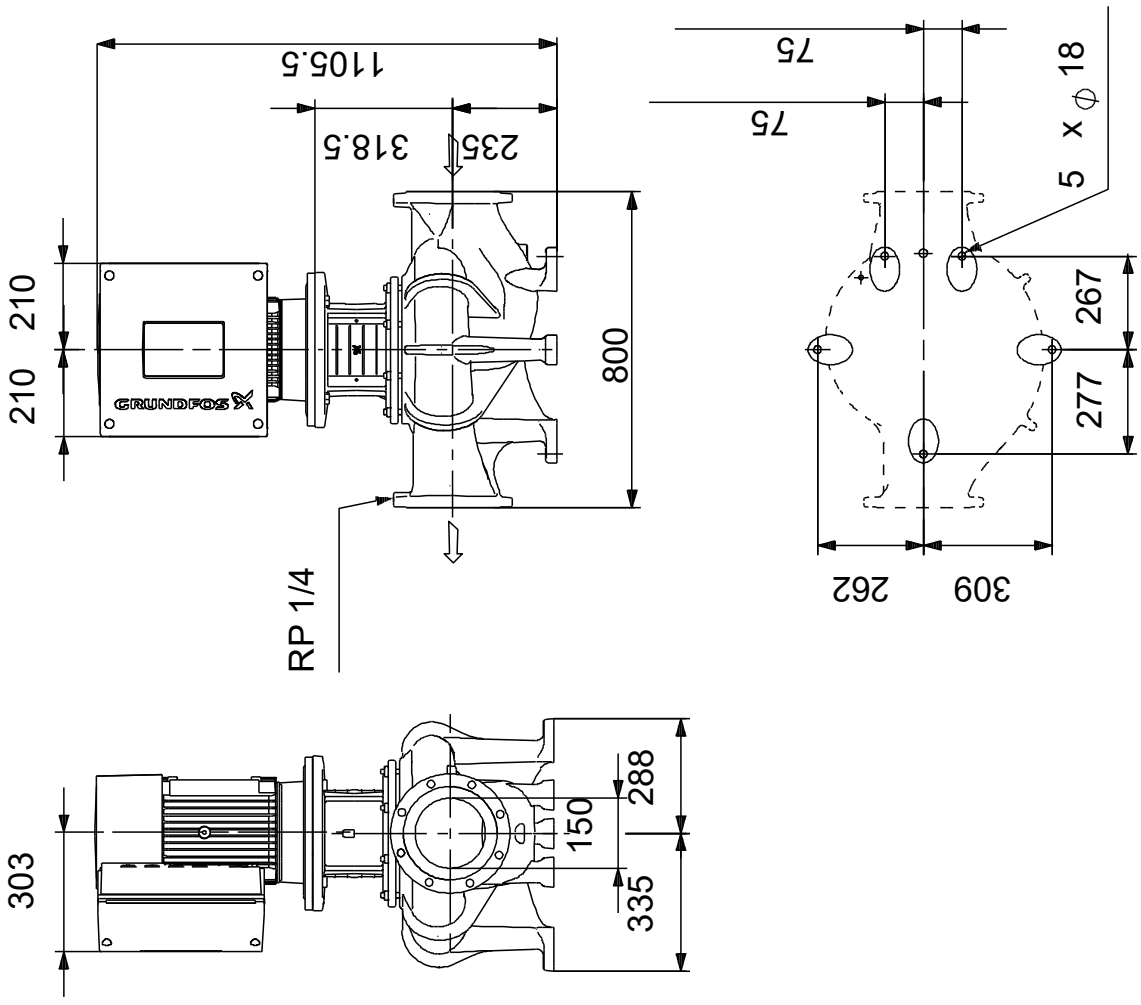




Company name:
Created by:
Phone:

Date: 22/10/2024

On request TPE 150-260/4 A3-F-O-DQQE-PWA 50 Hz

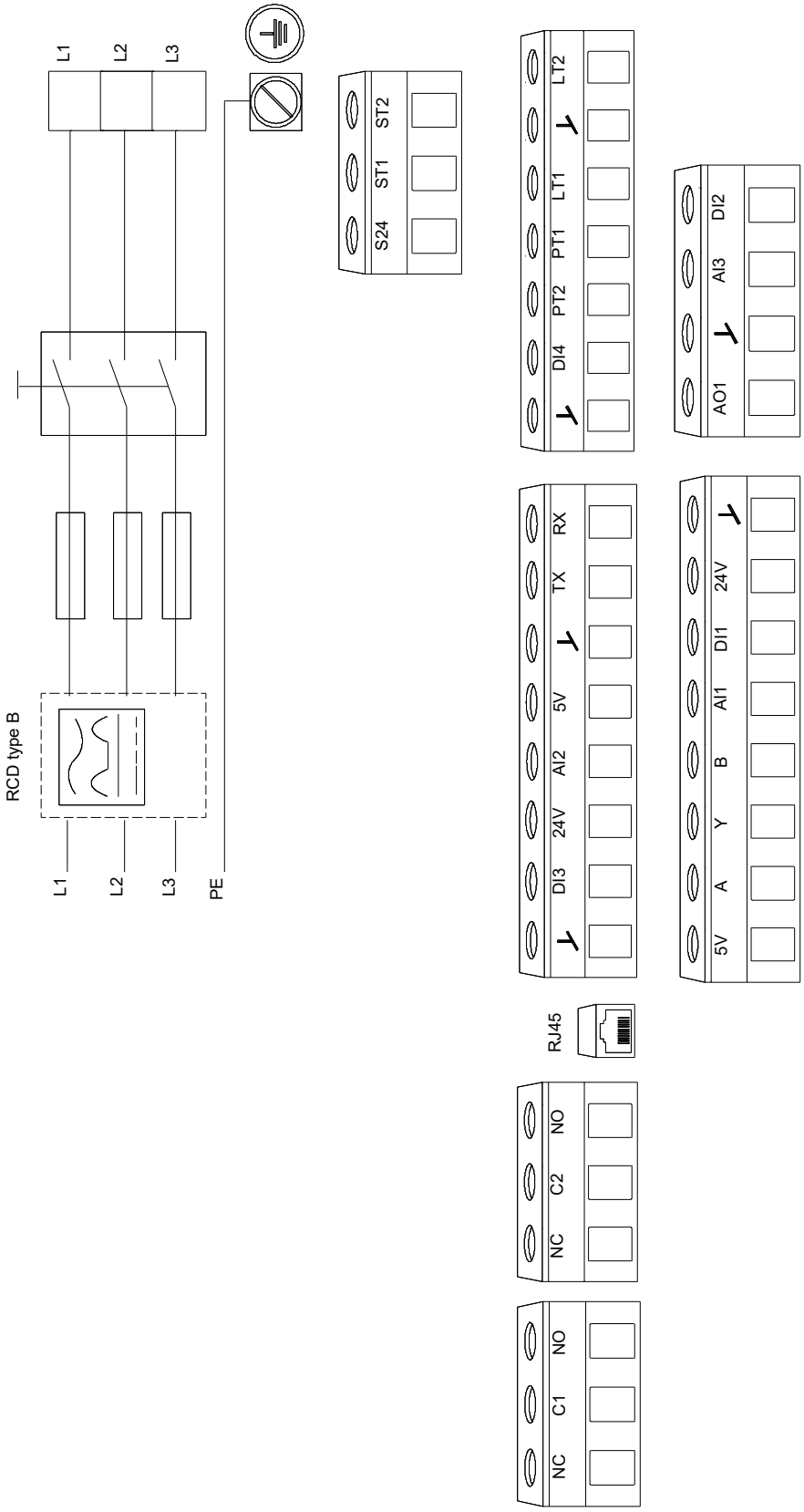


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Company name:
Created by:
Phone:

Date: 22/10/2024

On request TPE 150-260/4 A3-F-O-DQQE-PWA 50 Hz



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

GRUNDFOS

Company name:
Created by:
Phone:

Date: 22/10/2024

Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		TPE 150-260/4 A3-F-O-DQQE-PWA	1	On request	