

TPED 50-830/2-S-A-F-A-BAQE 3X400 50HZ

Grundfos Pump 96945777



Thank you for your interest in our products

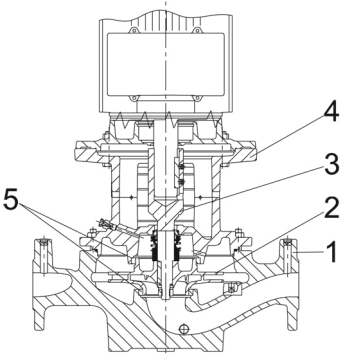
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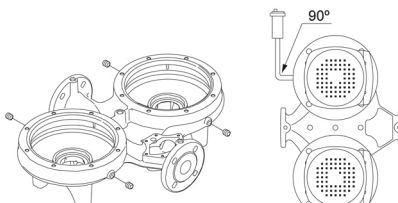
<https://www.lennotech.com/grundfos/TPEDS2/96945777/TPED-50-830-2-S-A-F-A-BAQE.html>

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Position	Qty.	Description
	1	TPED 50-830/2-S A-F-A-BAQE  Product No.: 96945777 Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads. 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. Each power head 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). Each power head is fitted with a fan-cooled asynchronous motor of identical size. 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. The pump is fitted with a differential-pressure sensor. Further product details The pump is suitable for applications requiring pressure control. The motor is fitted with a differential pressure transmitter registering the differential pressure across the pump and enables constant pressure or proportional pressure control of the pump. A cable ensures communication between the two power heads. The selector switch in the terminal boxes enables changeover between the operating modes "alternating operation" and "standby operation". 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 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". 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. Pump Pump housing and pump head are electrocoated to improve the corrosion resistance. Electrocoating includes: 1) Alkaline-based cleaning. 2) Pretreatment with zinc phosphate coating. 3) Cathodic electrocoating (epoxy). 4) Curing of paint film at 200-250 °C.  1: Pump housing

Position	Qty.	Description
		2: Impeller 3: Stub shaft 4: Pump head/motor stool 5: Wear rings The twin-head pump is designed with two parallel power-heads. A non-return flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head. The pump housing is provided with a replaceable bronze neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side. The impeller is secured to the shaft with a nut. 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. Primary seal: - Rotating seal ring material: Carbon graphite, metal-impregnated - Stationary seat material: Silicon carbide (SiC) This material pairing has a very good corrosion resistance and is especially suitable for water up to +120 °C. However, seal life will be reduced at temperatures above +90 °C. The material pairing is not recommended for liquids containing particles as this will result in heavy wear on the SiC face. 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 pump housing has four Rp 1/8 tappings for mounting of automatic air vents. Fit an air vent to the upper pump housing if the twin-head pump is to be installed in a horizontal pipeline with horizontal pump shaft.  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 stub 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 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). The motor efficiency is classified as IE3 in accordance with IEC 60034-30. 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: - pump start/stop input (potential-free contact) - remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA - 10 V voltage supply for setpoint potentiometer, I_{max} = 5 mA - one analog sensor input, 0-10 V, 0(4)-20 mA; the factory-fitted pressure sensor is connected to this input - 24 V voltage supply for sensor, I_{max} = 40 mA - one digital input -

two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"

- cable for communication between the two power heads
- selector switch for alternating operation and standby operation
- RS-485 GENIbus connection
- interface for Grundfos CIU fieldbus module.

Technical data

Liquid:

Pumped liquid: Water
Liquid temperature range: 0 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Speed for pump data: 2940 rpm
Rated flow: 51.7 m³/h
Rated head: 66.3 m
Actual impeller diameter: 245 mm
Primary shaft seal: BAQE
Curve tolerance: ISO9906:2012 3B

Materials:

Pump housing: Cast iron
EN-JL1040
ASTM A48-40 B
Impeller: Cast iron
EN-JL1030
ASTM A48-30 B

Installation:

Range of ambient temperature: -20 .. 40 °C
Maximum operating pressure: 16 bar
Max pressure at stated temp: 16 bar / 120 °C
Flange standard: DIN
Pipe connection: DN 50
Pressure rating: PN 16
Port-to-port length: 440 mm
Flange size for motor: FF300

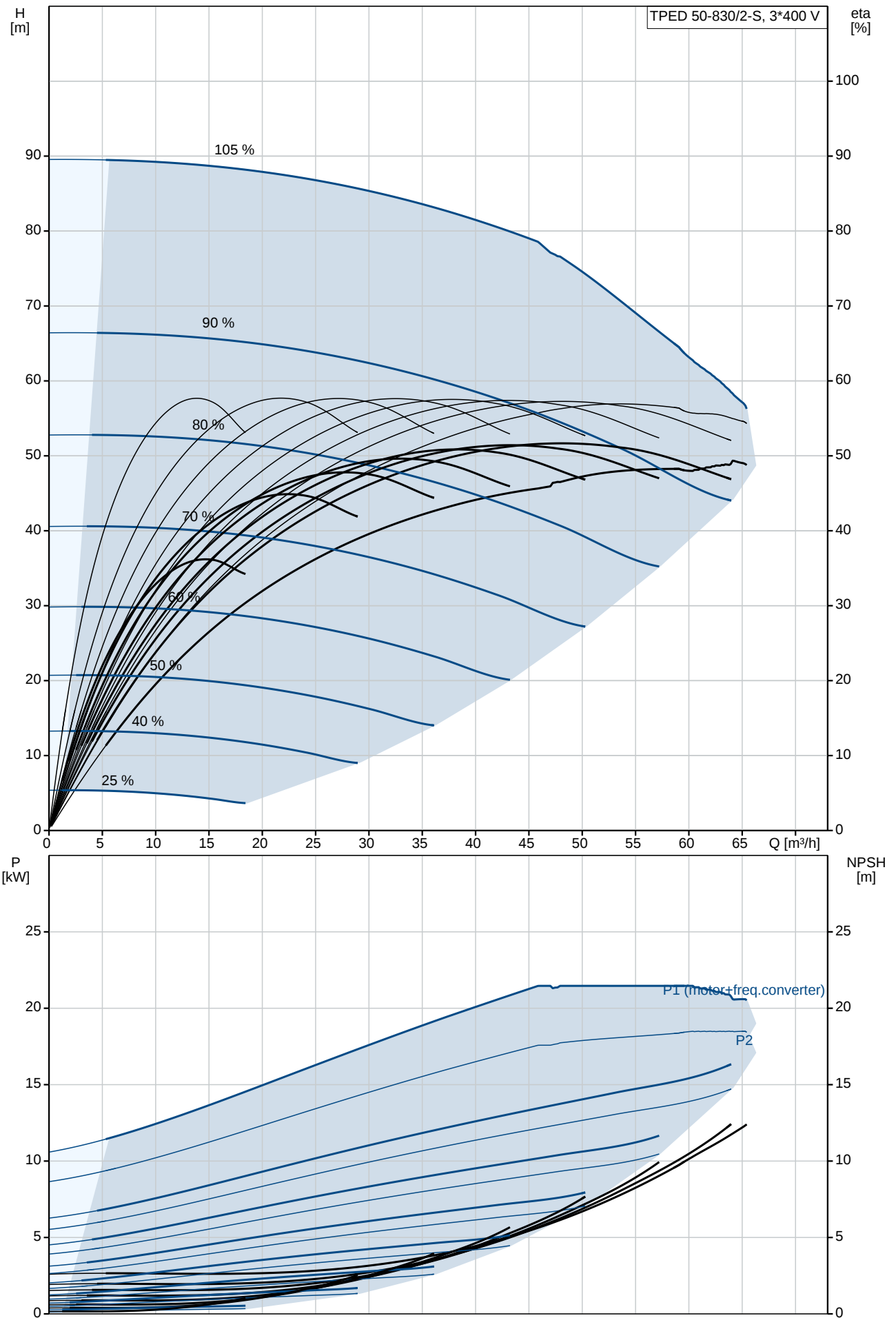
Electrical data:

Motor type: 160LB
IE Efficiency class: IE3
Rated power - P2: 2 x 18.5 kW
Mains frequency: 50 Hz
Rated voltage: 3 x 380-480 V
Rated current: 37,0-31,0 A
Cos phi - power factor: 0,91-0,88
Rated speed: 480-3540 rpm
Efficiency: IE3 92,4%
Number of poles: 2
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

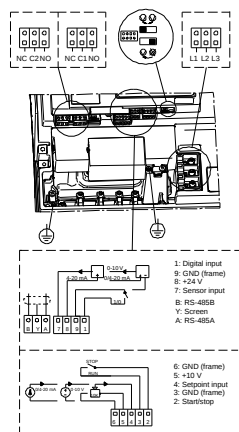
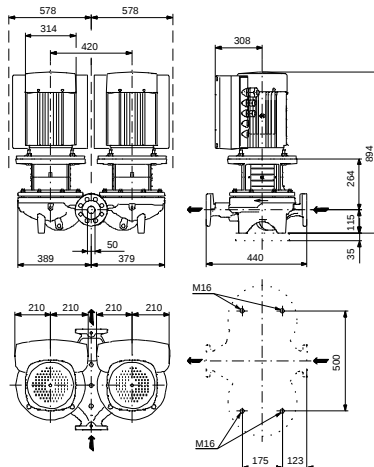
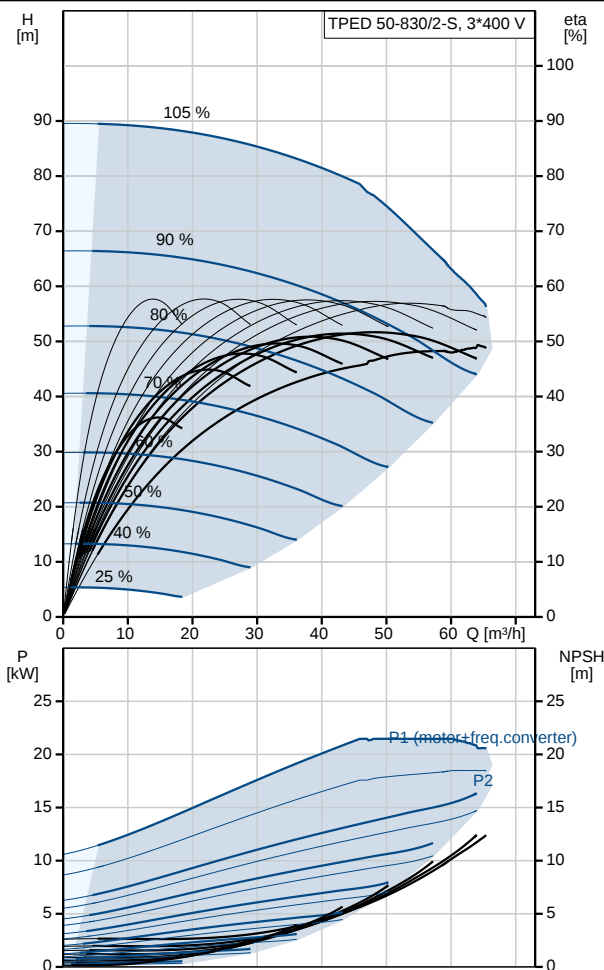
Others:

Minimum efficiency index, MEI ≥: 0.70
ErP status: EuP Standalone/Prod.
Net weight: 426 kg
Gross weight: 509 kg
Shipping volume: 1.52 m³

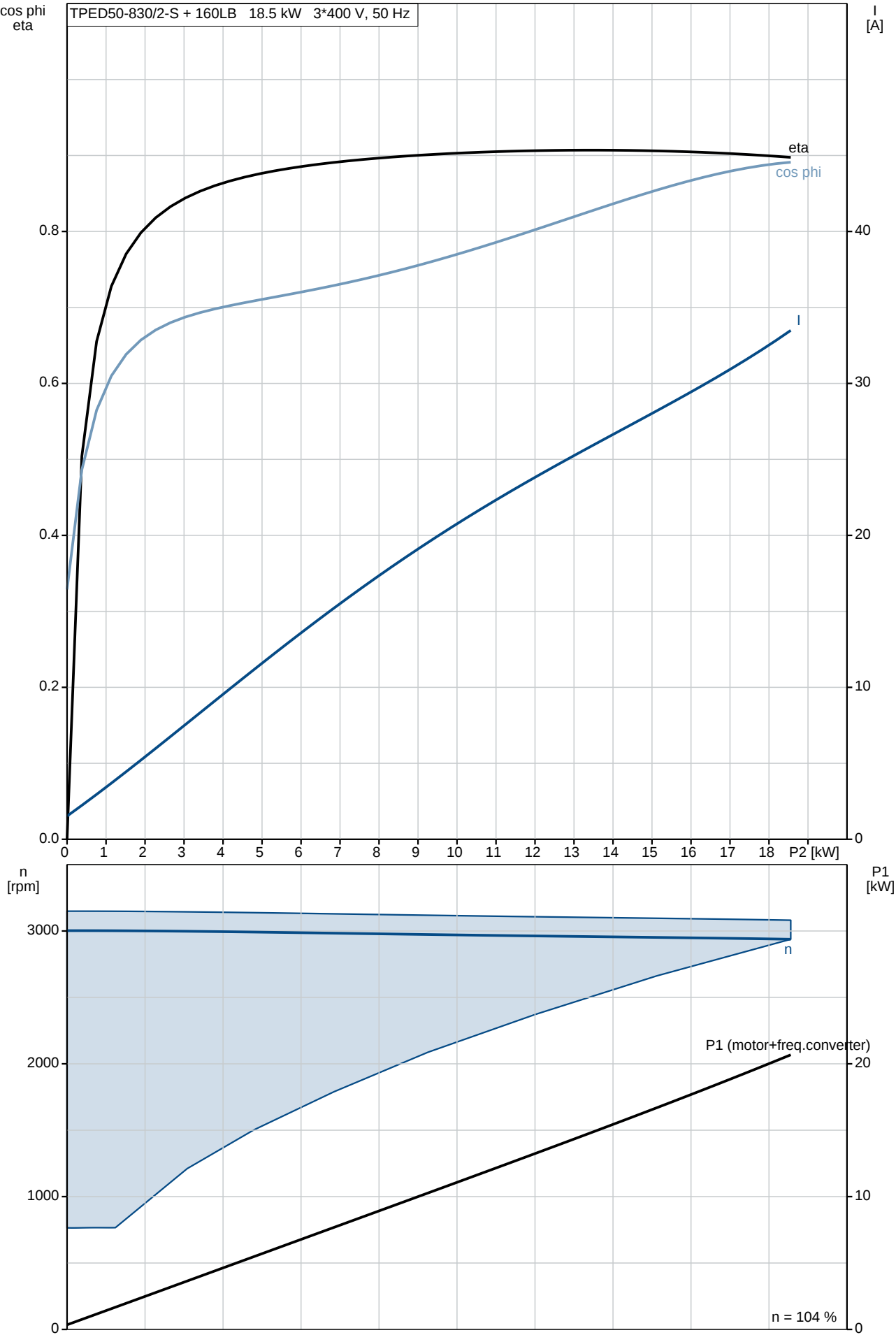
96945777 TPED 50-830/2-S 50 Hz



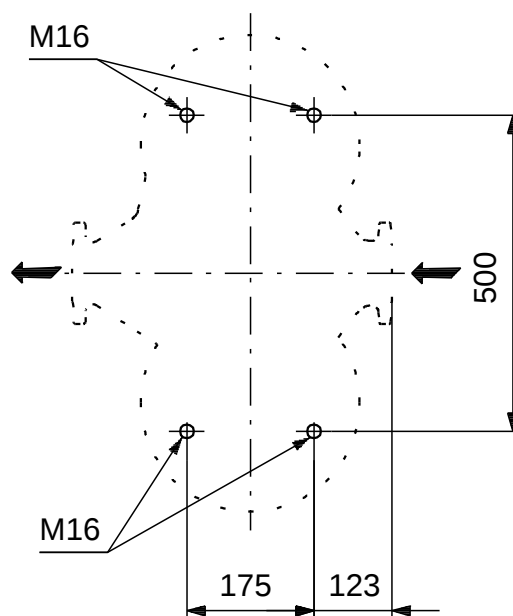
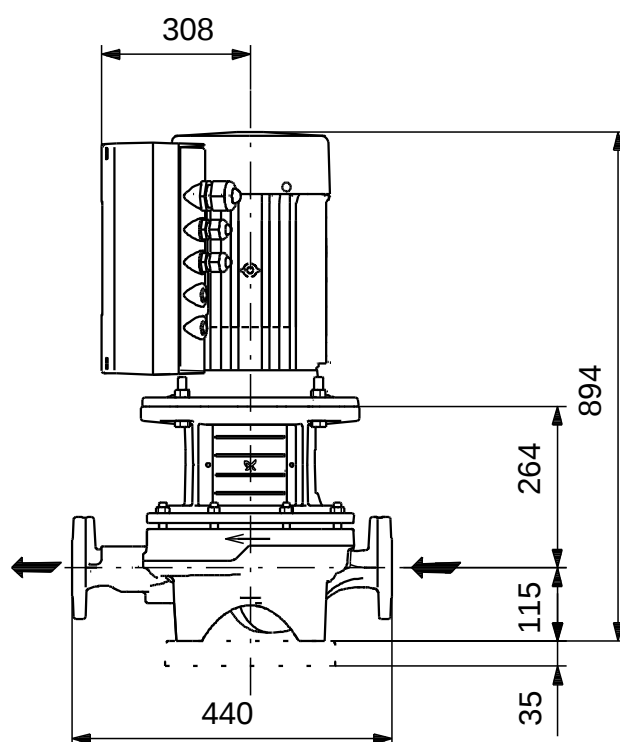
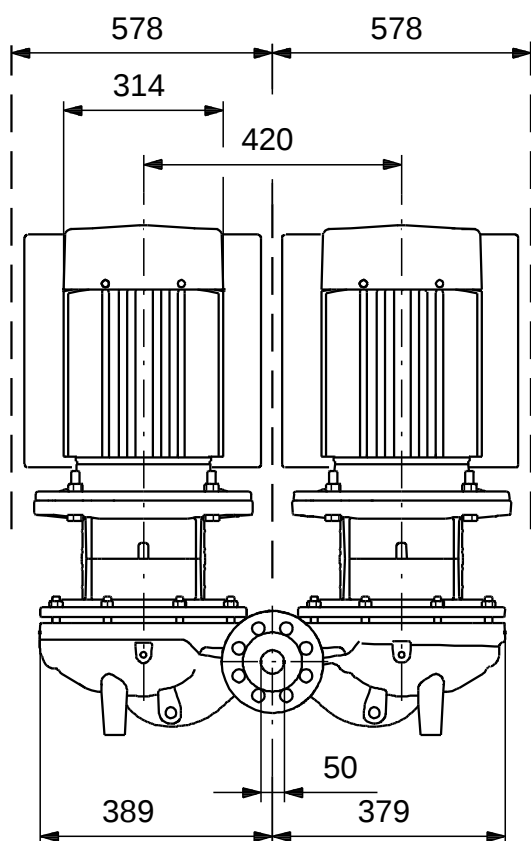
Description	Value
General information:	
Product name:	TPED 50-830/2-S
Product No:	A-F-A-BAQE
EAN number:	96945777
EAN number:	5700314376789
Technical:	
Speed for pump data:	2940 rpm
Rated flow:	51.7 m³/h
Rated head:	66.3 m
Head max:	830 dm
Actual impeller diameter:	245 mm
Primary shaft seal:	BAQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron
	EN-JL1040
	ASTM A48-40 B
Impeller:	Cast iron
	EN-JL1030
	ASTM A48-30 B
Material code:	A
Installation:	
Range of ambient temperature:	-20 .. 40 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 50
Pressure rating:	PN 16
Port-to-port length:	440 mm
Flange size for motor:	FF300
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	0 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	160LB
IE Efficiency class:	IE3
Rated power - P2:	2 x 18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	37,0-31,0 A
Cos phi - power factor:	0,91-0,88
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,4%
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	85901238
Controls:	
Control panel:	BS
Function Module:	TPED
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	426 kg
Gross weight:	509 kg
Shipping volume:	1.52 m³
Config. file no:	95139460



96945777 TPED 50-830/2-S 50 Hz

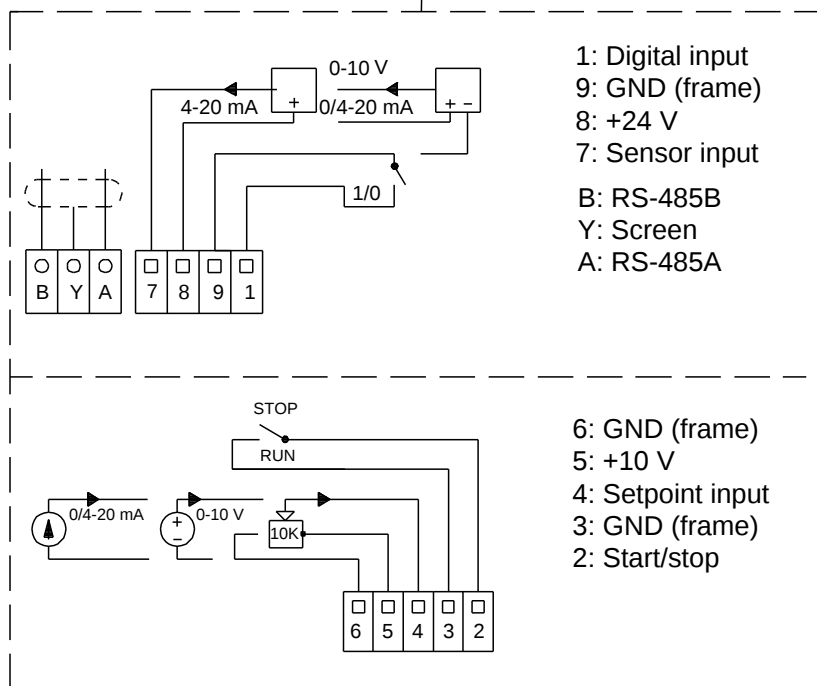
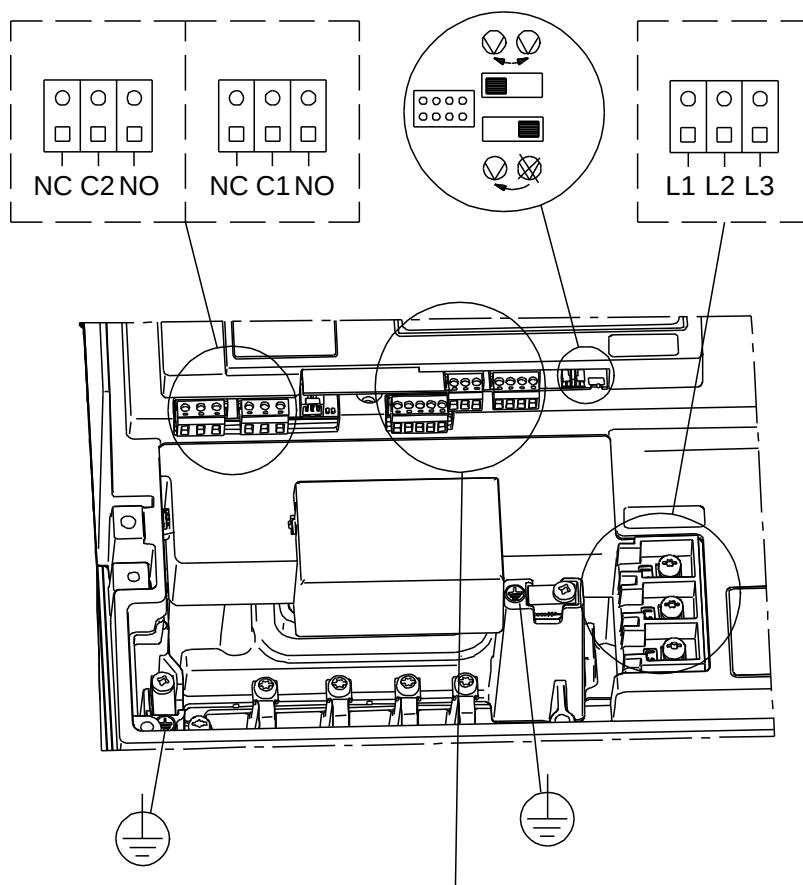


96945777 TPED 50-830/2-S 50 Hz



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

96945777 TPED 50-830/2-S 50 Hz



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*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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