

Množstvo	Popis
1	TPE3 40-240 S-A-F-A-BQQE-HDC  Poznámka: Obrázok produktu sa môže líšiť od skutočného produktu Objednacie č.: 99272212 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 shaft seal is according to EN 12756. Pipework connection is via PN 6/10 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 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 combined temperature- and differential pressure sensor. The pump is suitable for applications requiring pressure or temperature control and offers following control modes: - AUTOADAPT. This function continuously adjusts the proportional-pressure curve and automatically sets a more efficient curve without compromising comfort demands. - FLOWADAPT. This control mode combines AUTOADAPT with a flow-limiting function. The pump continuously monitors the flow rate to ensure the desired maximum flow is not exceeded. This will save the cost of a separate pump-throttling valve. - Constant differential pressure. The pump head is kept constant, independent of the flow in the system. - Proportional pressure. The head of the pump will increase proportionally to the flow in the system to compensate for the large pressure losses in the distribution pipes. - Constant temperature. The return-pipe temperature is kept constant. Note: If the pump is installed in the flow pipe, an external temperature sensor must be installed in the return pipe of the system. - Constant differential temperature. The differential temperature can be measured by a differential-temperature sensor or two separate temperature sensors. - Constant curve. The pump can be set to run at a constant speed in the range of 25 to 100 % of the maximum speed. 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. The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator. The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".

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Communication with the pump is also 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".

The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

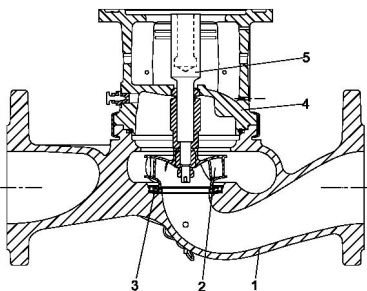
- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

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
- 2: Impeller
- 3: Neck ring
- 4: Pump head/motor stool
- 5: Stub shaft

The pump housing is provided with a replaceable stainless steel/PTFE 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: 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 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.

Množstvo	Popis
	The terminal box holds terminals for these connections: - one dedicated digital input - two analog inputs, 0(4)-20 mA, 0-10 V - one configurable digital input or open-collector output - Grundfos combined temperature and differential pressure sensor (separate connected) - 24 V voltage supply for sensors - two signal relay outputs (potential-free contacts) - GENIbus connection - interface for Grundfos CIM fieldbus module. Further product details Technical data Riadiace jednotky: Frequency converter: Built-in Kvapalina: Čerpaná kvapalina: Voda Rozsah teploty kvapaliny: -25 .. 120 °C Vybraná teplota kvapaliny: 20 °C Hustota: 998.2 kg/m³ Techn.: Menovité otáčky čerp.: 5500 rpm Menovitý prietok: 22.4 m³/h Hlava čerpadla: 18.6 m Skutočný priemer obežného kolesa: 74 mm Hriadeľová upchávka: BQQE Toler. pásmo krivky: ISO9906:2012 3B2 Materiály: Teleso čerpadla: Šedá liatina EN-GJL-250 ASTM class 35 Obežné koleso: Kompozit PES+30% GF Inštalácia: Rozsah teploty okolia: -20 .. 50 °C Maximálny prevádzkový tlak: 10 bar Maximálny tlak pri danej teplote: 10 bar / 120 °C Druh pripojenia: DIN Veľkosť pripojenia: DN 40 PN pre potrubnú prípojku: PN 6/10 Pripojenie na prip.: 250 mm Príruba motora: 56C Elektrické údaje: Typ motora: 90SB Trieda účinnosti IE: IE5 P2: 1.5 kW f: 50 / 60 Hz U: 3 x 380-500 V Menovitý el. prúd: 3.05-2.50 A Cos phi: 0.90-0.83 n: 480-5900 rpm Účinnosť: 89.1% Eta 1/1: 89.1 %



Názov spoločnosti: MAXTRA CONTROL s.r.o.

Vytvoril:

Telefón:

0317707561

Email:

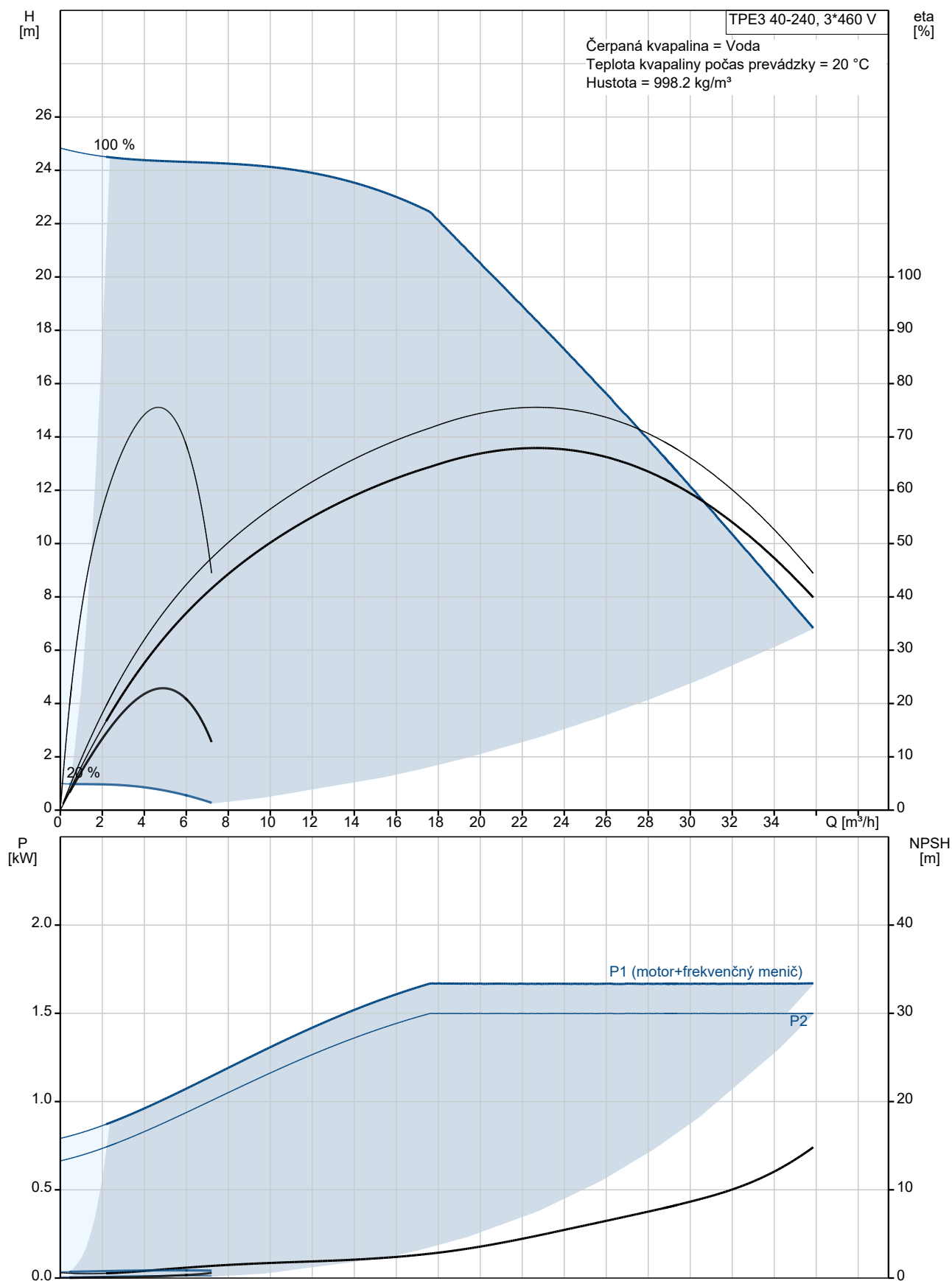
odbyt@maxtracontrol.sk

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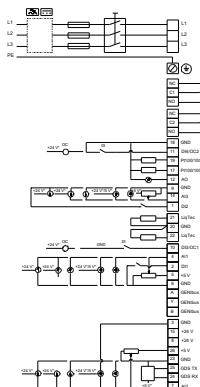
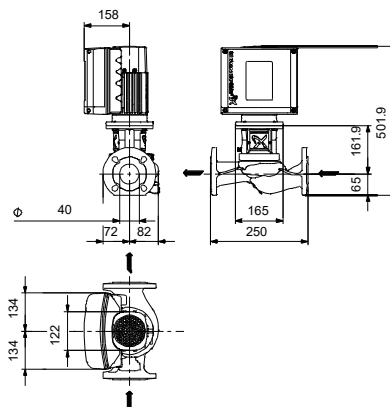
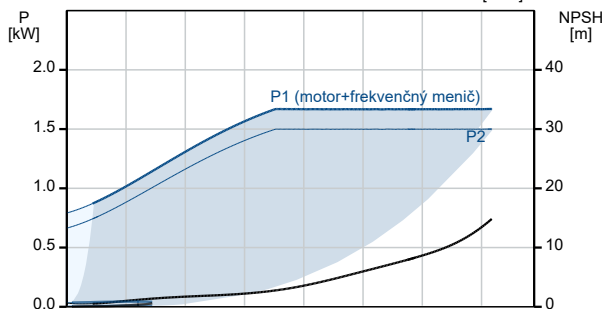
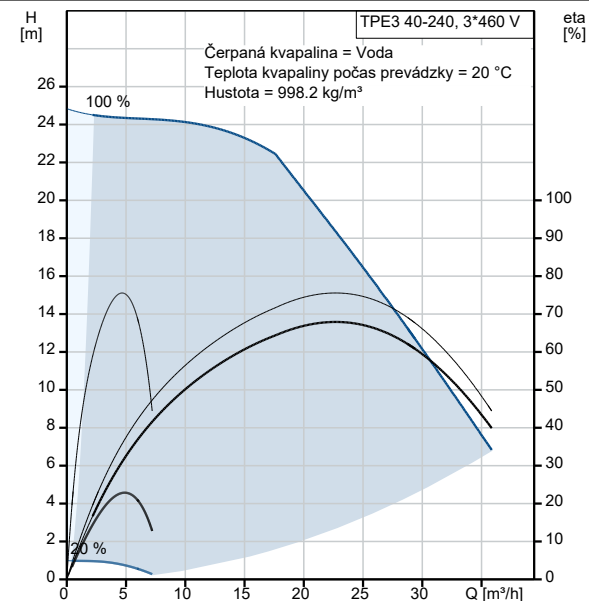
1.3.2021

Množstvo	Popis
	Krytie IP: IP55 Izolácia: F Výr.č. motora: 99138037 Iné: MEI â‰‰¥: 0.7 Čistá hmotnosť: 26.2 kg Hrubá hmotnosť: 33.7 kg Prepravné množstvo: 0.1 m³ Dánčina: 381621240 Fínčina: 4616254 Krajina pôvodu: HU Tarifná klasifikácia č.: 84137051

99272212 TPE3 40-240 S-A-F-A-BQQE-HDC



Popis	Hodnota
Všeobecné informácie:	
Názov produktu:	TPE3 40-240 S-A-F-A-BQQE-HDC
Objednacie číslo:	99272212
Číslo EAN:	5713826360153
Techn.:	
Menovité otáčky čerpa.:	5500 rpm
Menovitý prietok:	22.4 m³/h
Hlava čerpadla:	18.6 m
Max. výtláčná výška:	240 dm
Skutočný priemer obežného kolesa:	74 mm
Hriadeľová upchávka:	BQQE
Toler. pásmo krivky:	ISO9906:2012 3B2
Verzia čerpadla:	A
Materiály:	
Teleso čerpadla:	Šedá liatina
Teleso čerpadla:	EN-GJL-250
Teleso čerpadla:	ASTM class 35
Obežné koleso:	Kompozit
Obežné koleso:	PES+30% GF
Kód materiálu:	A
Inštalácia:	
Rozsah teploty okolia:	-20 .. 50 °C
Maximálny prevádzkový tlak:	10 bar
Maximálny tlak pri danej teplote:	10 bar / 120 °C
Druh pripojenia:	DIN
Veľkosť pripojenia:	DN 40
PN pre potrubnú prípojku:	PN 6/10
Pripojenie na prip.:	250 mm
Príruba motora:	56C
Kód pripojenia:	F
Kvapalina:	
Čerpaná kvapalina:	Voda
Rozsah teploty kvapaliny:	-25 .. 120 °C
Vybraná teplota kvapaliny:	20 °C
Hustota:	998.2 kg/m³
Elektrické údaje:	
Typ motora:	90SB
Trieda účinnosti IE:	IE5
P2:	1.5 kW
f:	50 / 60 Hz
U:	3 x 380-500 V
Menovitý el. prúd:	3.05-2.50 A
Cos phi:	0.90-0.83
n:	480-5900 rpm
Účinnosť:	89.1%
Eta 1/1:	89.1 %
Krytie IP:	IP55
Izolácia:	F
Motorová ochrana:	ELEC
Výr.č. motora:	99138037
Riadiace jednotky:	
Ovládací panel:	HMI300 - Grafický
Modul funkcií:	FM300 - Pokročilý
Frekvenčný menič:	Built-in
Iné:	
MEI â%¥:	0.7
Čistá hmotnosť:	26.2 kg





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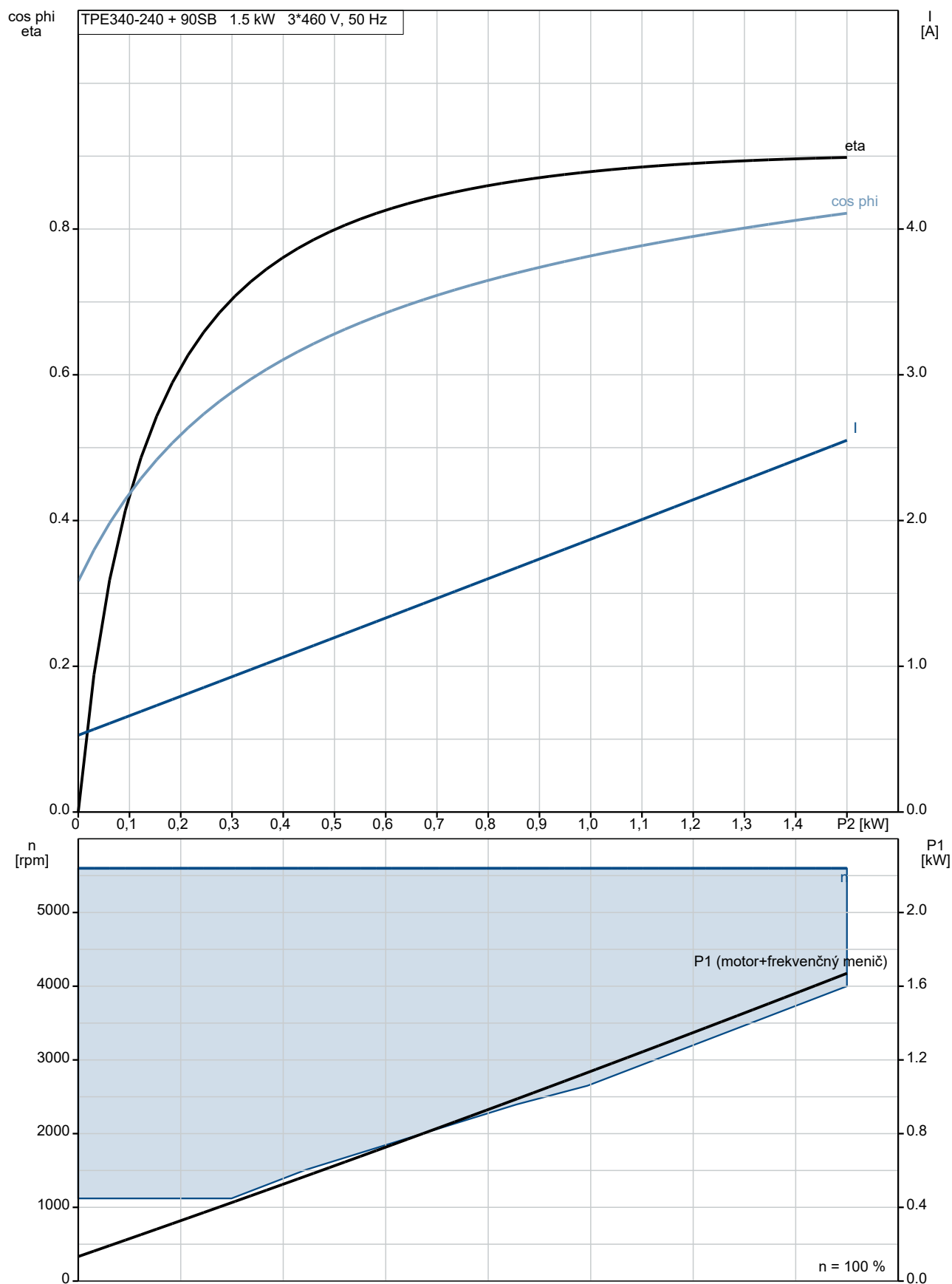
odbyt@maxtracontrol.sk

Dátum:

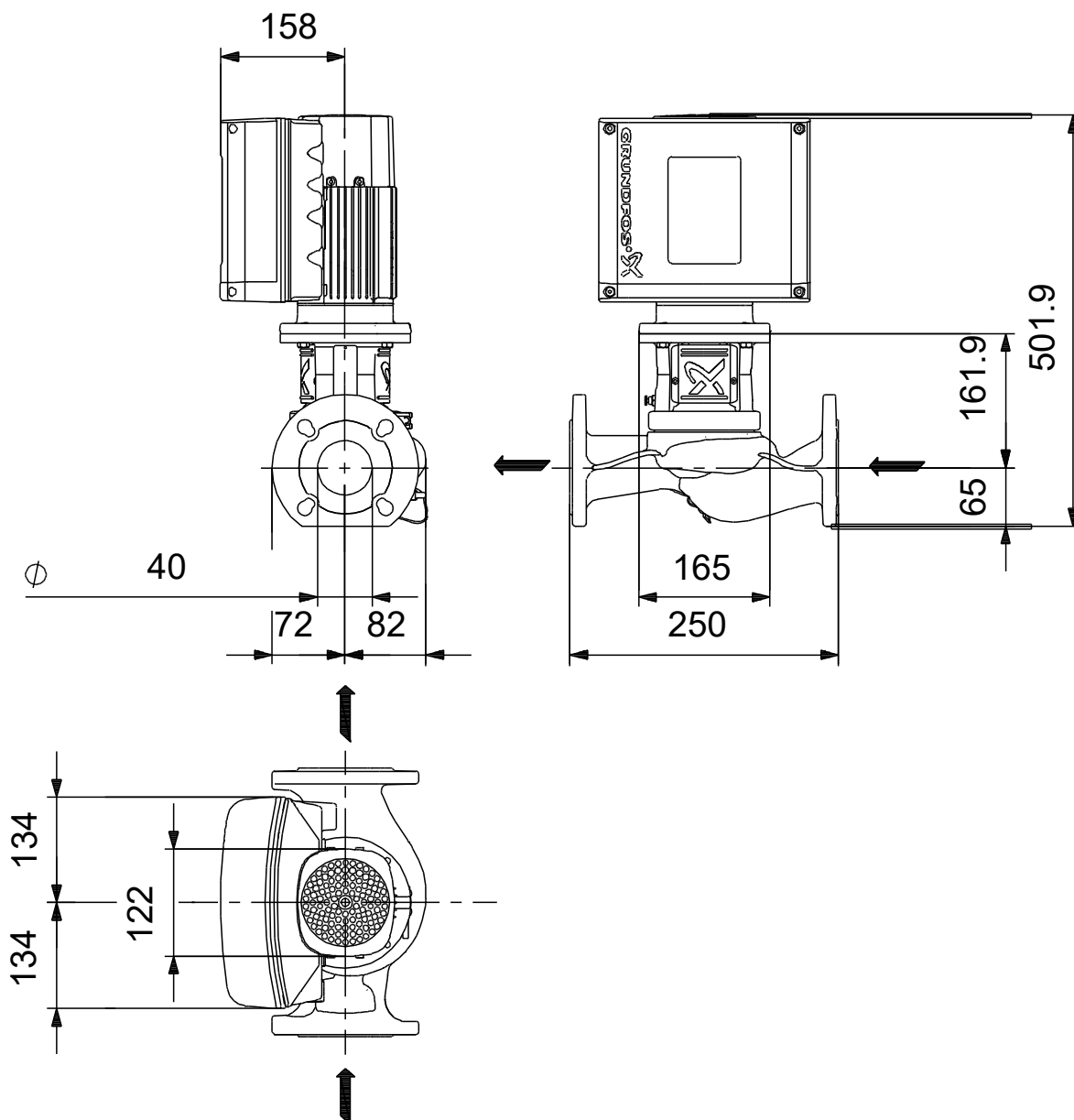
1.3.2021

Popis	Hodnota
Hrubá hmotnosť:	33.7 kg
Prepravné množstvo:	0.1 m ³
Číslo konfigur. Súboru:	98484777
Dánčina:	381621240
Fínčina:	4616254
Krajina pôvodu:	HU
Tarifná klasifikácia č.:	84137051

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Upozornenie! Všetky jednotky musia byť v [mm], pokiaľ nie je uvedené inak.
Poznámka: Tento zjednodušený rozmerový náčrtok nezobrazuje všetky detaily.

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10/11



Názov spoločnosti: MAXTRA CONTROL s.r.o.
Vytvoril:
Telefón: 0317707561
Email: odbyt@maxtracontrol.sk
Dátum: 1.3.2021

Objednávacie údaje:

Názov výrobku: TPE3 40-240
Množstvo: 1
Objednacie číslo: 99272212

Celkom: Cena na požiadanie
