

CM10-4 A-R-G-V-AQQV F-A-A-N

Grundfos Pump 96806985



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<https://www.lenntech.com/grundfos/CMBASIS/96806985/CM10-4-A-R-G-V-AQQV.html>

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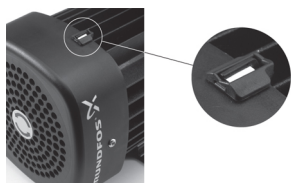
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Position	Qty.	Description
	1	CM10-4 A-R-G-V-AQQV  Product No.: 96806985 Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. Pump materials in contact with the liquid are in high-grade stainless steel. The mechanical shaft seal is a special designed, unbalanced O-ring seal. Pipework connection is via internal Whitworth pipe threads, Rp (ISO 7/1). The pump is fitted with a 3-phase, foot-mounted, fan-cooled asynchronous motor. Further product details Pump and motor are integrated in a compact and user-friendly design. The pump is fitted to a low base plate, making it ideal for installation in systems where compactness is important. The state-of-the-art design and materials of the shaft seal ensure high wear resistance, improved sticking and dry-running capabilities and long operating life. Servicing the pump requires no special service tools. Service parts are in stock for quick delivery and are available as kits, single parts or bulk. Service videos are available on www.youtube.com. Pump A combination of a stop ring and a Nord-lock® washer secures a tight and reliable fixation of the impeller spacing pipes to the splined pump shaft. It is possible to remove and fit the hydraulic parts from the pump side. The inlet and outlet port are integrated in the pump sleeve. The inlet part, chambers and discharge part are hold together by four staybolts and a retaining flange. The pump is fitted with an unbalanced O-ring seal with a rigid torque transmission system. It has a fixed seal driver ensuring a reliable rotation of all parts. The dynamic secondary seal is an O-ring. 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: FKM (fluorocarbon rubber) FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.  The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be dismantled. Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034. The motor efficiency is classified as IE2 in accordance with IEC 60034-30. The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

An installation indicator is fitted to the motor fan cover. Based on the motor cooling air, it indicates the direction of rotation of the motor. The motor is fitted with a directional sticker.



The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Technical data

Liquid:

Pumped liquid:	Water
Liquid temperature range:	-20 .. 90 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³

Technical:

Speed for pump data:	2900 rpm
Rated flow:	10 m ³ /h
Rated head:	51.5 m
Primary shaft seal:	AQQV
Approvals on nameplate:	CE,WRAS,ACS,TR,EAC
Curve tolerance:	ISO9906:2012 3B

Materials:

Pump housing:	Stainless steel DIN W.-Nr. 1.4401 AISI 316
Impeller:	Stainless steel DIN W.-Nr. 1.4401 AISI 316
Rubber:	FKM

Installation:

Maximum ambient temperature:	55 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 90 °C
Flange standard:	WHITWORTH THREAD RP
Pump inlet:	Rp 1 1/2
Pump outlet:	Rp 1 1/2

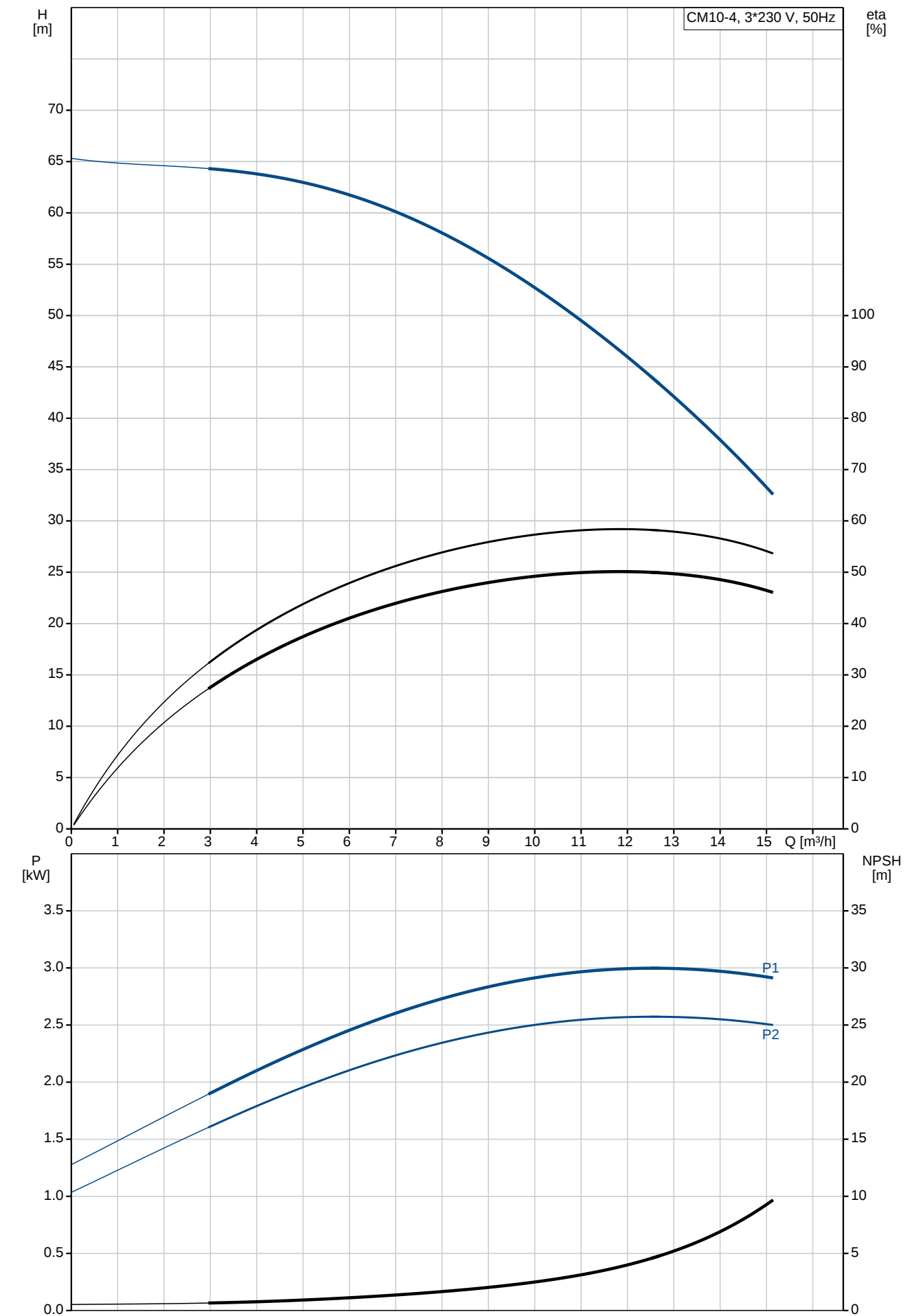
Electrical data:

Motor type:	100LA
IE Efficiency class:	IE2
Rated power - P2:	3.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Service factor:	1
Rated current:	11,8-11,0/6,75-6,40 A
Starting current:	800-880 %
Rated speed:	2900-2920 rpm
Motor efficiency at full load:	84.6 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F

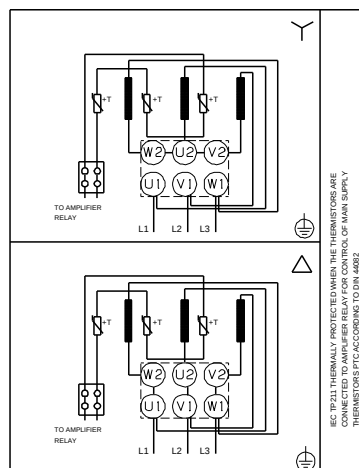
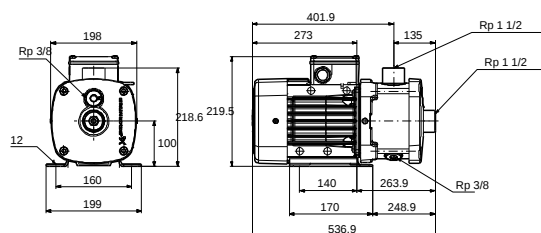
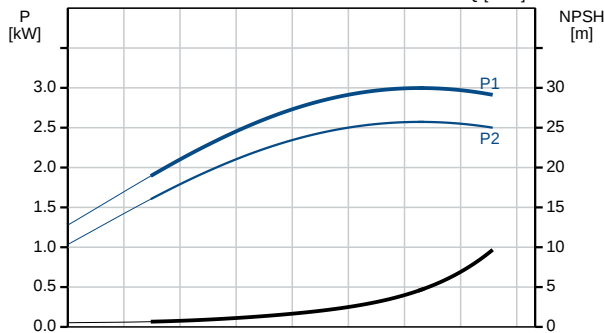
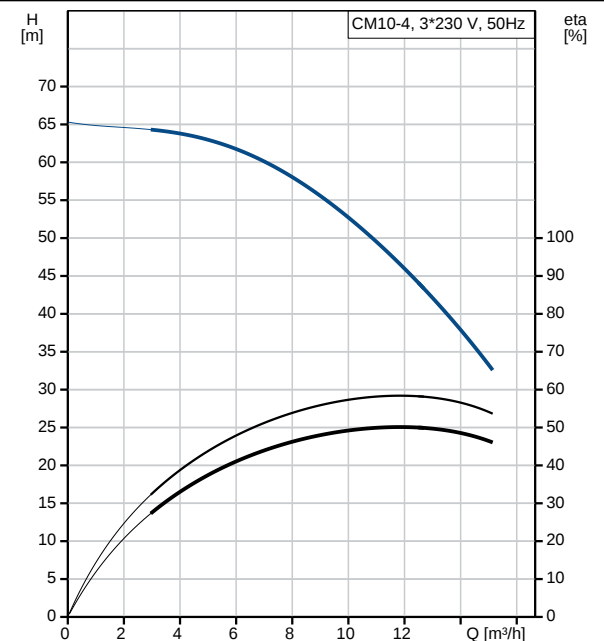
Others:

Position	Qty.	Description
		Minimum efficiency index, MEI $\geq$ 0,52 Net weight: 33.2 kg Gross weight: 35.7 kg

96806985 CM10-4 50 Hz

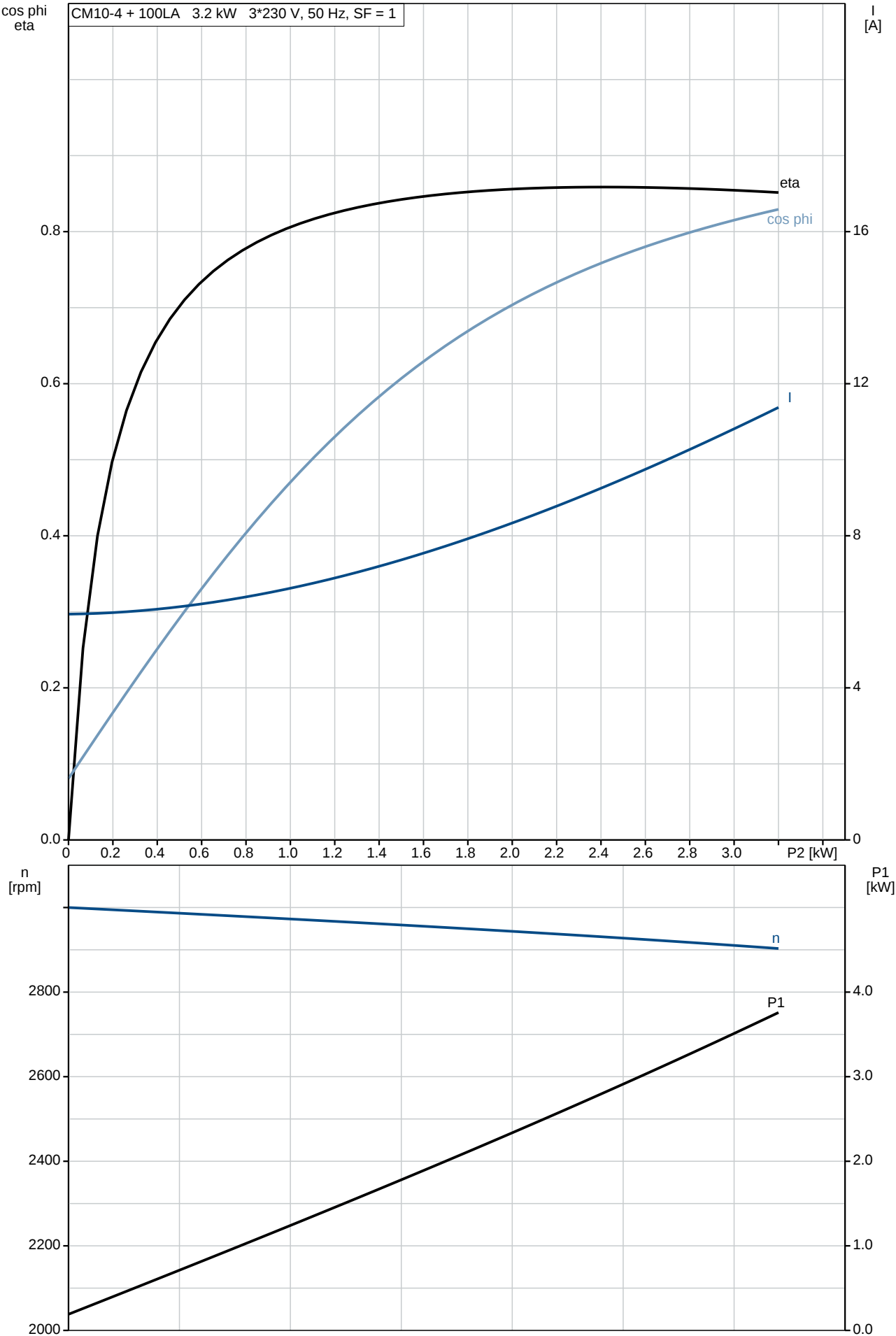


Description	Value
General information:	
Product name:	CM10-4 A-R-G-V-AQQV
Product No:	96806985
EAN number:	5700310919324
Technical:	
Speed for pump data:	2900 rpm
Rated flow:	10 m³/h
Rated head:	51.5 m
Impellers:	4
Primary shaft seal:	AQQV
Approvals on nameplate:	CE,WRAS,ACS,TR,EAC
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Stainless steel
	DIN W.-Nr. 1.4401
	AISI 316
Impeller:	Stainless steel
	DIN W.-Nr. 1.4401
	AISI 316
Material code:	G
Rubber:	FKM
Code for rubber:	V
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 90 °C
Flange standard:	WHITWORTH THREAD RP
Connect code:	R
Pump inlet:	Rp 1 1/2
Pump outlet:	Rp 1 1/2
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 90 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	100LA
IE Efficiency class:	IE2
Rated power - P2:	3.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Service factor:	1
Rated current:	11,8-11,0/6,75-6,40 A
Starting current:	800-880 %
Rated speed:	2900-2920 rpm
Motor efficiency at full load:	84.6 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	TP211
Others:	
Minimum efficiency index, MEI ≥:	0,52
Net weight:	33.2 kg
Gross weight:	35.7 kg

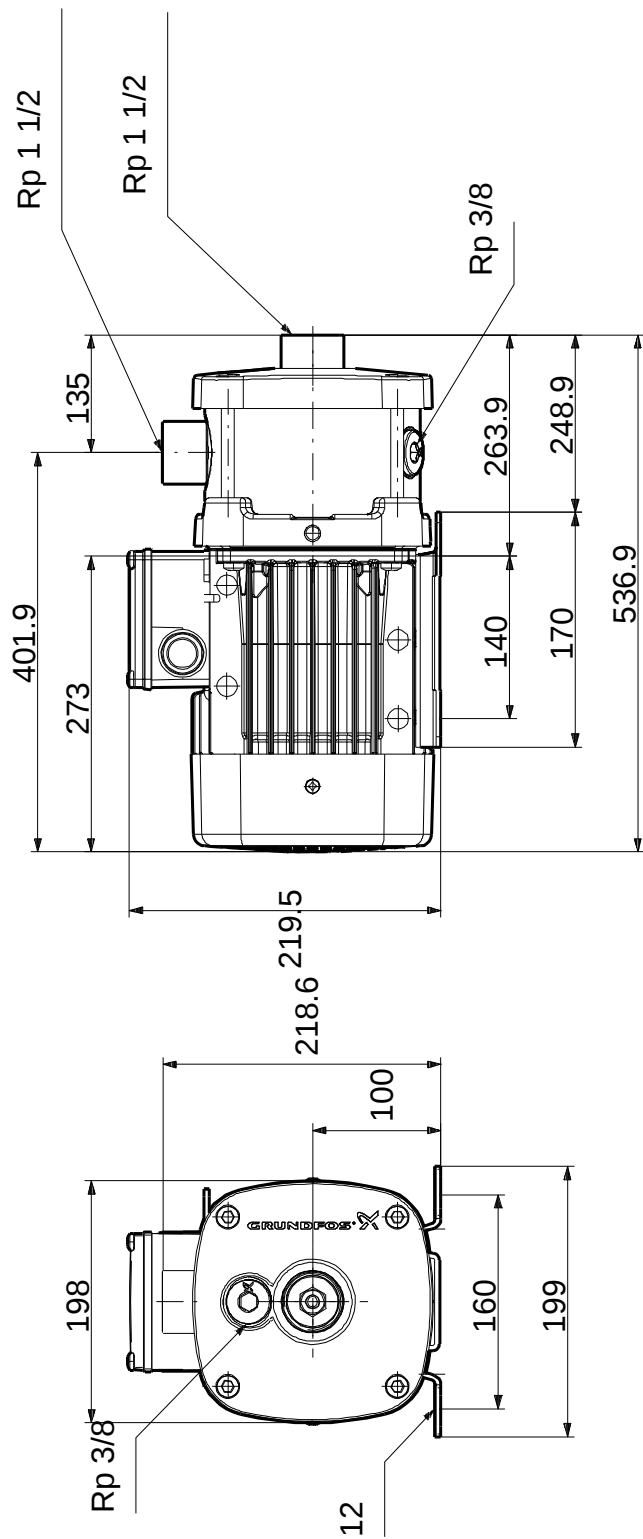


96806985 CM10-4 50 Hz

CM10-4 + 100LA 3.2 kW 3*230 V, 50 Hz, SF = 1



96806985 CM10-4 50 Hz



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

96806985 CM10-4 50 Hz



IEC TP211 THERMALLY PROTECTED WHEN THE THERMISTORS ARE
CONNECTED TO AMPLIFIER RELAY FOR CONTROL OF MAIN SUPPLY
THERMISTORS PTC ACCORDING TO DIN 44082

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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