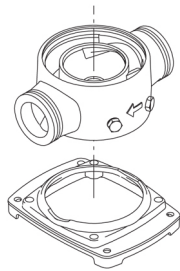


CRN64-2-1 A-F-G-E-HQQE 3x400/690 50 HZ

Grundfos Pump 96123777





Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE 3 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.

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 Win-WebCAPS.

Technical data

Liquid:

Pumped liquid:	Water
Liquid temperature range:	233 .. 393 K
Liquid temp:	293 K
Density:	998.2 kg/m ³

Technical:

Speed for pump data:	2924 rpm
Rated flow:	64 m ³ /h
Rated head:	38.1 m
Shaft seal:	HQQE
Curve tolerance:	ISO 9906:1999 Annex A

Materials:

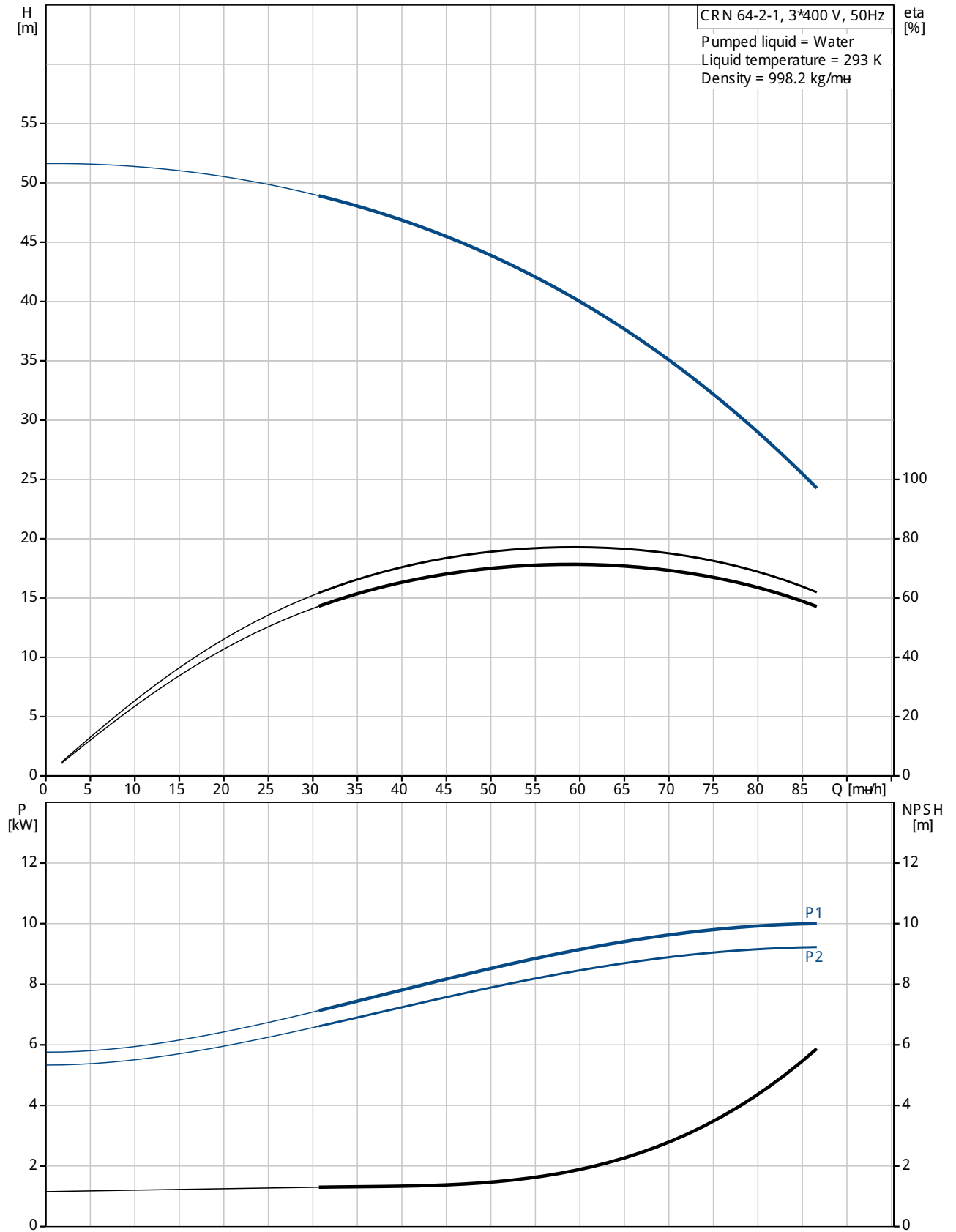
Pump housing:	Stainless steel DIN W.-Nr. 1.4408 AISI 316 LN
Impeller:	Stainless steel DIN W.-Nr. 1.4401 AISI 316

Installation:

Maximum ambient temperature:	333 K
Max pressure at stated temp:	16 bar / 120 $\bar{\text{a}}$ 16 bar / -40 $\bar{\text{a}}$

Position	Qty.	Description
		Flange standard: DIN Pipe connection: DN 100 Pressure stage: PN 16 Flange size for motor: FF300 Electrical data: Motor type: 160MB IE Efficiency class: IE 3 Number of poles: 2 Rated power - P2: 11 kW Power (P2) required by pump: 11 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 D/660-690 Y V Rated current: 20,8-19,8/12,0-11,8 A Starting current: 660-780 % Cos phi - power factor: 0,88-0,84 Rated speed: 2940-2950 rpm Efficiency: IE 3 91,2% Motor efficiency at full load: 91,2-91,2 % Motor efficiency at 3/4 load: 91,8-91,8 % Motor efficiency at 1/2 load: 91,3-91,2 % Enclosure class (IEC 34-5): 55 (Protect. water jets/dust) Insulation class (IEC 85): F Others: Label: Grundfos Blueflux Minimum efficiency index, MEI ě: 0.7 Net weight: 162 kg Gross weight: 195 kg Shipping volume: 0.305 m3

96123777 CRN 64-2-1 50 Hz



Description	Value
Product name:	CRN 64-2-1 A-F-G-E-HQQE
Product No:	96123777
EAN number:	5700396700380

Technical:	
Speed for pump data:	2924 rpm
Rated flow:	64 m ³ /h
Rated head:	38.1 m
Impellers:	2
Impeller reduc.:	1
Shaft seal:	HQQE
Curve tolerance:	ISO 9906:1999 Annex A
Stages:	2
Pump version:	A
Model:	A

Materials:	
Pump housing:	Stainless steel DIN W.-Nr. 1.4408 AISI 316 LN
Impeller:	Stainless steel DIN W.-Nr. 1.4401 AISI 316
Material code:	G
Code for rubber:	E

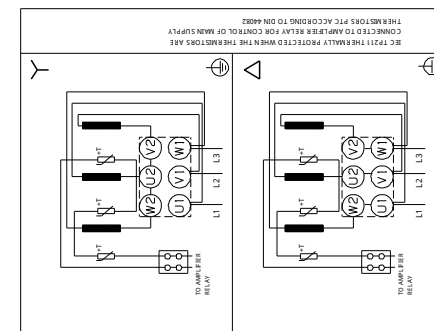
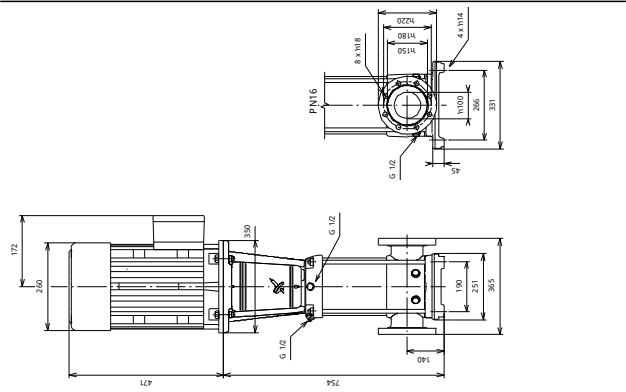
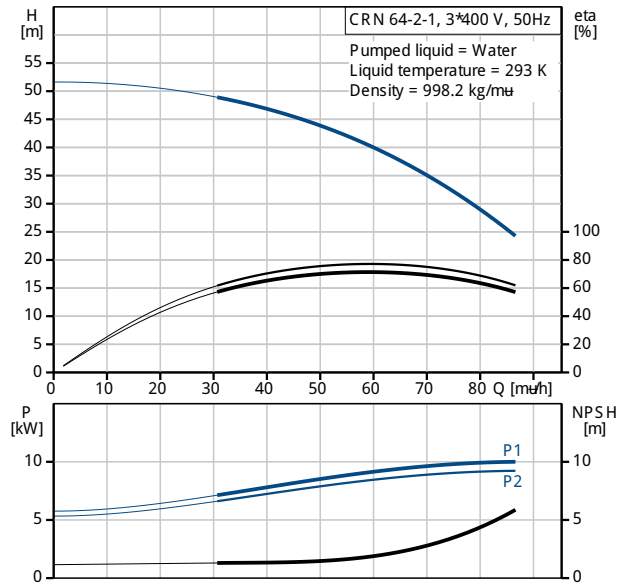
Installation:	
Maximum ambient temperature:	333 K
Max pressure at stated temp:	16 bar / 120 a c
	16 bar / -40 a c

Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 100
Pressure stage:	PN 16
Flange size for motor:	FF300

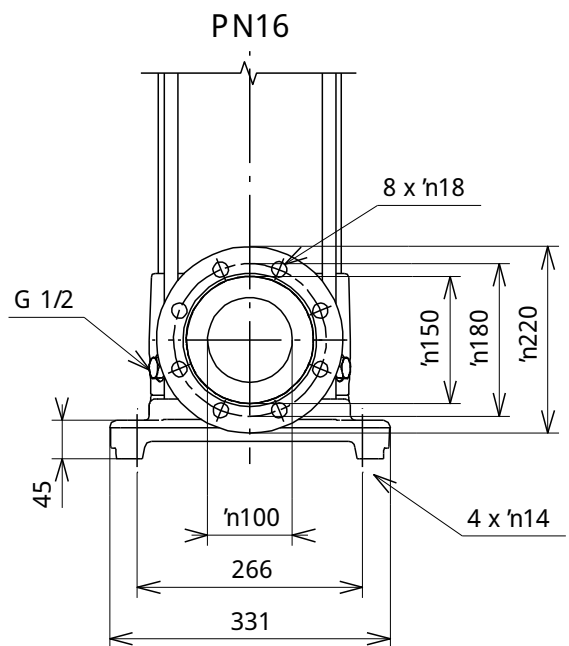
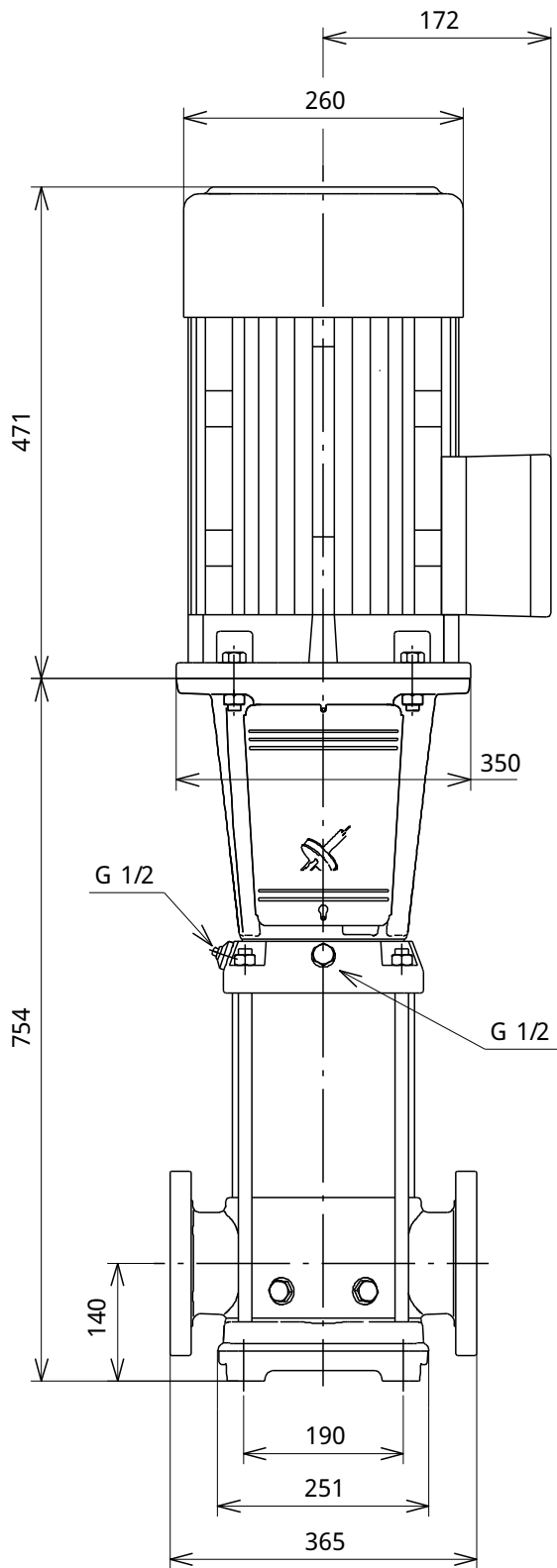
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	233 .. 393 K
Liquid temp:	293 K
Density:	998.2 kg/m ³

Electrical data:	
Motor type:	160MB
IE Efficiency class:	IE 3
Number of poles:	2
Rated power - P2:	11 kW
Power (P2) required by pump:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 D/660-690 Y V
Rated current:	20,8-19,8/12,0-11,8 A
Starting current:	660-780 %
Cos phi - power factor:	0,88-0,84
Rated speed:	2940-2950 rpm
Efficiency:	IE 3 91,2%
Motor efficiency at full load:	91,2-91,2 %
Motor efficiency at 3/4 load:	91,8-91,8 %
Motor efficiency at 1/2 load:	91,3-91,2 %
Enclosure class (IEC 34-5):	55 (Protect. water jets/dust)
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17524

Others:



96123777 CRN 64-2-1 50 Hz



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