

CRN64-7-2 A-F-G-V-HQQV 3x400/690 50 HZ

Grundfos Pump 96123813



Thank you for your interest in our products

Please contact us for more information, or visit our website

<http://www.lenntech.com/grundfos/CRN64/96123813/CRN-64-7-2-A-F-G-V-HQQV.html>

info@lenntech.com

tel. +31-15-261.09.00

fax. +31-15-261.62.89

Position	Qty.	Description
----------	------	-------------

1	CRN 64-7-2 A-F-G-V-HQQV
---	-------------------------



Note! Product picture may differ from actual product

Product No.: [96123813](#)

Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal one-pipe system. Pump materials in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling and easy service and access. Power transmission is via a split coupling. Pipework connection is via DIN flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

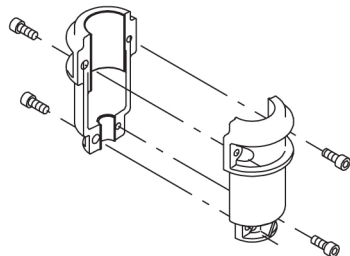
Further product details

Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

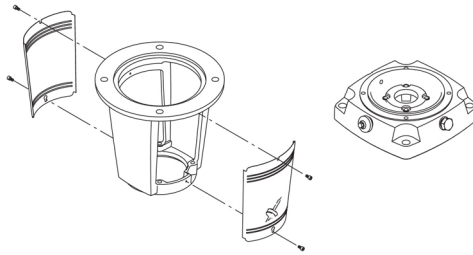
- 1) Alkaline-based cleaning.
 - 2) Zinc phosphating.
 - 3) Cathodic electro-deposition.
 - 4) Curing to a dry film thickness 18-22 my m.
- The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and air vent screw.



The pump is fitted with a balanced O-ring seal unit with rigid torque transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

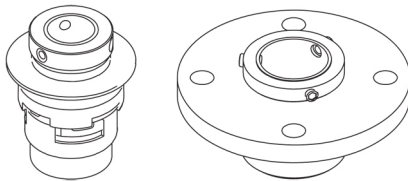
Primary seal:

- 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)

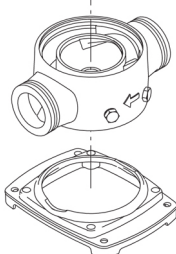
FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

The chambers and impellers are made of stainless steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surface, and the shape of the blades ensure a high efficiency.

The pump has a stainless steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. Both the suction and the discharge side of the base have two pressure gauge tapings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



Motor

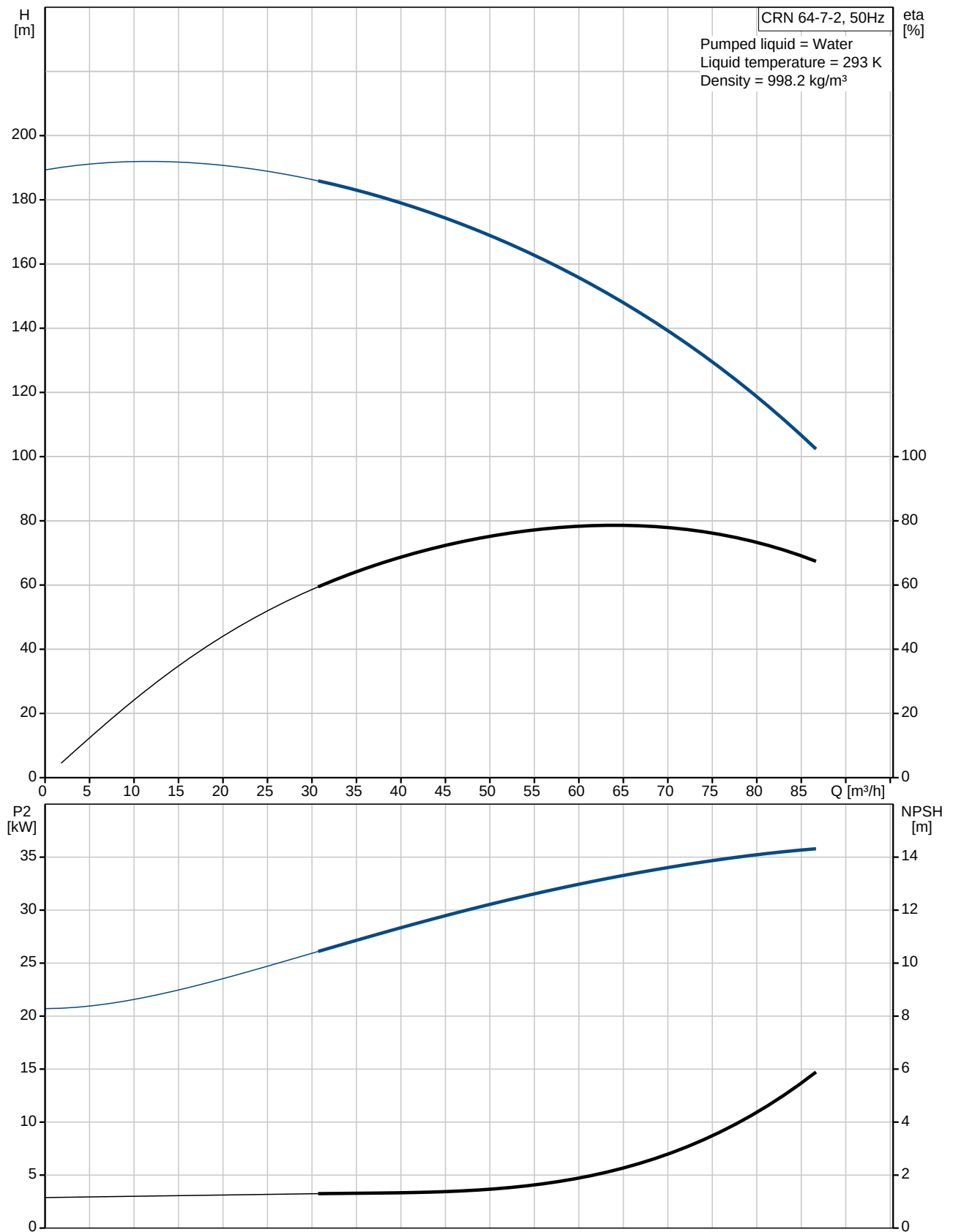
The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

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

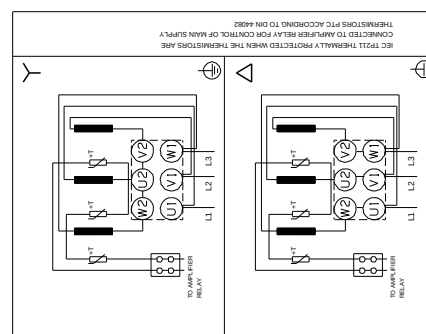
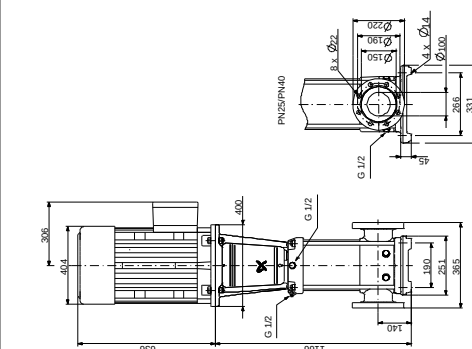
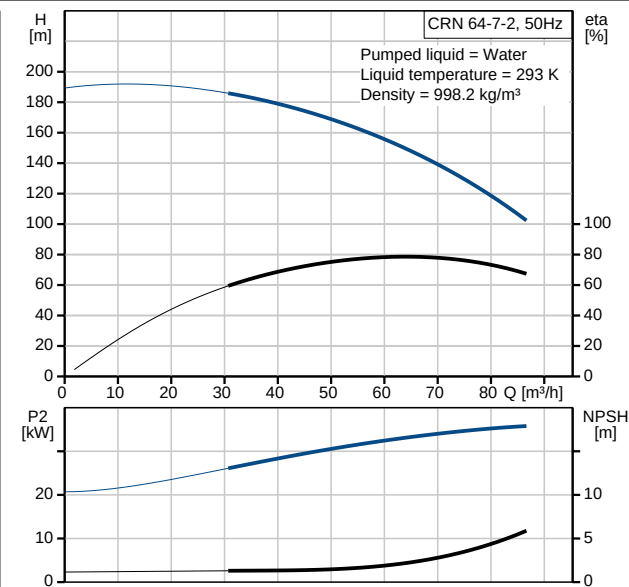
Position	Qty.	Description
		The motor efficiency is classified as IE3 in accordance with IEC 60034-30. The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled 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: 253 .. 363 K Liquid temp: 293 K Density: 998.2 kg/m³ Technical: Speed for pump data: 2957 rpm Rated flow: 64 m³/h Rated head: 145 m Shaft seal: HQQV 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: 328 K Max pressure at stated temp: 30 bar / 90 °C 30 bar / -20 °C Flange standard: DIN Pipe connection: DN 100 Pressure stage: PN 25 / PN 40 Flange size for motor: FF350 Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Number of poles: 2 Rated power - P2: 37 kW Power (P2) required by pump: 37 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 68,0-63,0/39,0-36,0 A Starting current: 670-670 % Cos phi - power factor: 0,9

Position	Qty.	Description
		Rated speed: 2955 rpm Efficiency: IE3 93,7% Motor efficiency at full load: 93,7-93,7 % Motor efficiency at 3/4 load: 93,9-93,9 % Motor efficiency at 1/2 load: 93,5-93,5 % Enclosure class (IEC 34-5): 55 (Protect. water jets/dust) Insulation class (IEC 85): F Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 359 kg Gross weight: 410 kg Shipping volume: 0.77 m3

96123813 CRN 64-7-2 50 Hz

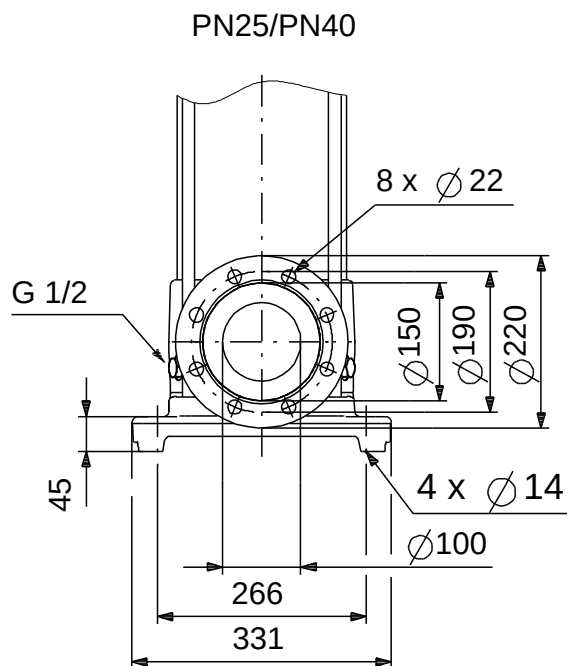
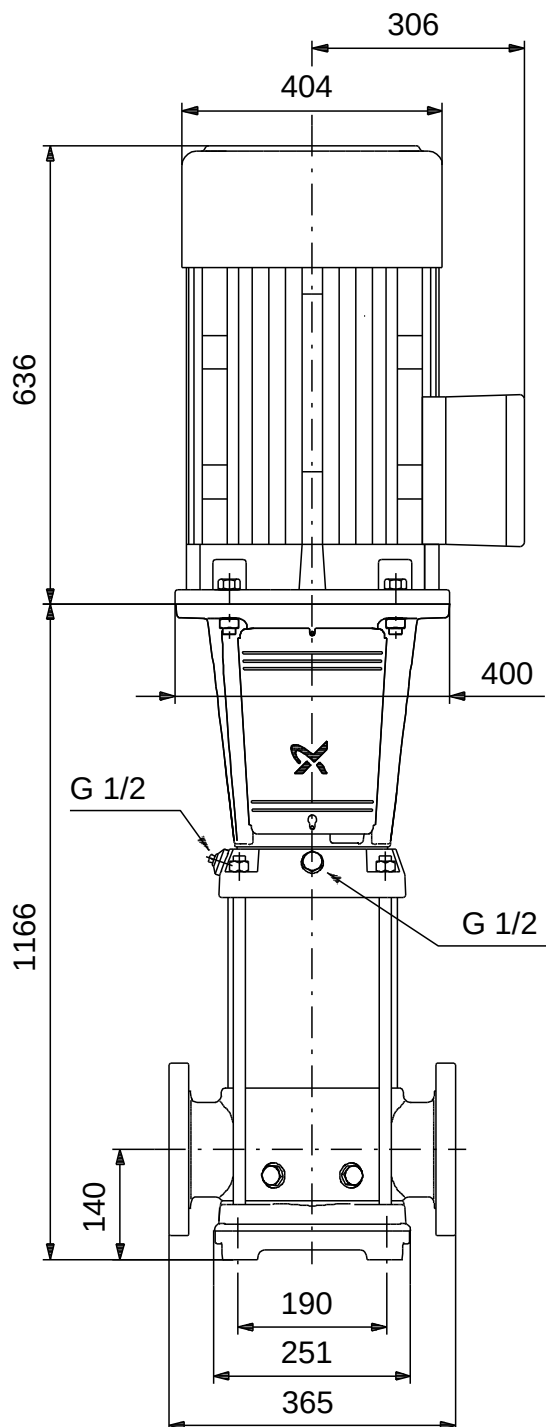


Description	Value
Product name:	CRN 64-7-2 A-F-G-V-HQQV
Product No:	96123813
EAN number:	5700396700748
Technical:	
Speed for pump data:	2957 rpm
Rated flow:	64 m³/h
Rated head:	145 m
Impellers:	7
Impeller reduc.:	2
Shaft seal:	HQQV
Curve tolerance:	ISO 9906:1999 Annex A
Stages:	7
Pump version:	A
Model:	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:	V
Installation:	
Maximum ambient temperature:	328 K
Max pressure at stated temp:	30 bar / 90 °C
	30 bar / -20 °C
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 100
Pressure stage:	PN 25 / PN 40
Flange size for motor:	FF350
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	253 .. 363 K
Liquid temp:	293 K
Density:	998.2 kg/m³
Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Number of poles:	2
Rated power - P2:	37 kW
Power (P2) required by pump:	37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	68,0-63,0/39,0-36,0 A
Starting current:	670-670 %
Cos phi - power factor:	0,9
Rated speed:	2955 rpm
Efficiency:	IE3 93,7%
Motor efficiency at full load:	93,7-93,7 %
Motor efficiency at 3/4 load:	93,9-93,9 %
Motor efficiency at 1/2 load:	93,5-93,5 %
Enclosure class (IEC 34-5):	55 (Protect. water jets/dust)
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15334
Others:	



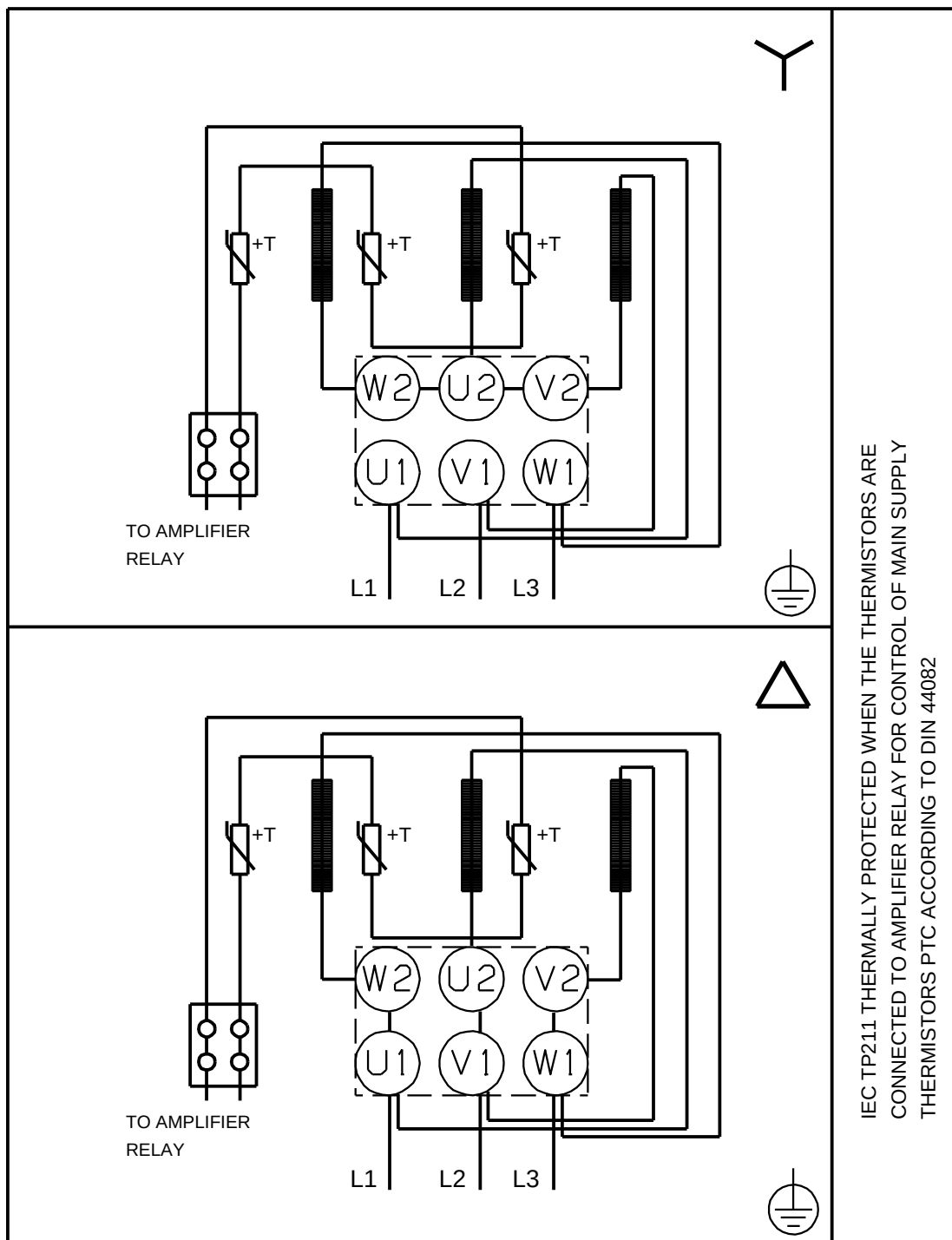
Description	Value
Minimum efficiency index, MEI ≥:	0.7
Net weight:	359 kg
Gross weight:	410 kg
Shipping volume:	0.77 m3

96123813 CRN 64-7-2 50 Hz



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

96123813 CRN 64-7-2 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.*

All information is copyright Grundfos.



info@lenntech.com

www.lenntech.com

tel. +31-15-261.09.00

fax. +31-15-261.62.89