

CR64-7 A-F-A-E-HQQE 3x400/690 50 HZ

Grundfos Pump 96123545



Thank you for your interest in our products

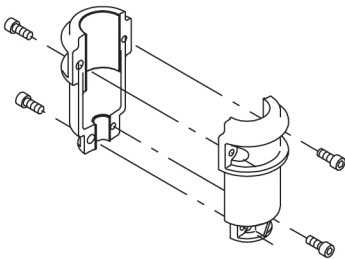
Please contact us for more information, or visit our website

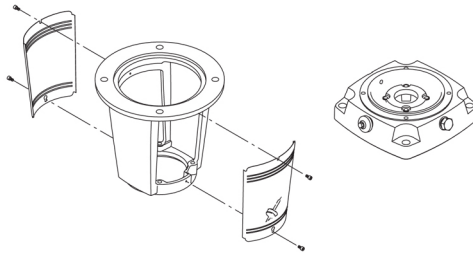
<http://www.lenntech.com/grundfos/CRFAM/96123545/CR-64-7-A-F-A-E-HQQE.html>

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Position	Qty.	Description
	1	CR 64-7 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96123545 Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal one-pipe system. The pump head and base are in cast iron – all other wetted parts are in 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.

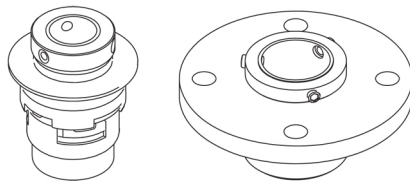
Primary seal:

- 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: EPDM (ethylene-propylene rubber)

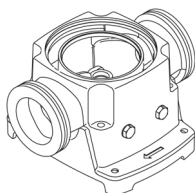
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 base is made of cast iron. 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.

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.

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump should be ordered with an electrically insulated motor bearing. 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:	243 .. 393 K
Liquid temp:	293 K
Density:	998.2 kg/m ³

Technical:

Speed for pump data:	2960 rpm
Rated flow:	64 m ³ /h
Rated head:	165 m
Shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO 9906:1999 Annex A

Materials:

Pump housing:	Cast iron EN-JS1050 ASTM 80-55-06
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304

Installation:

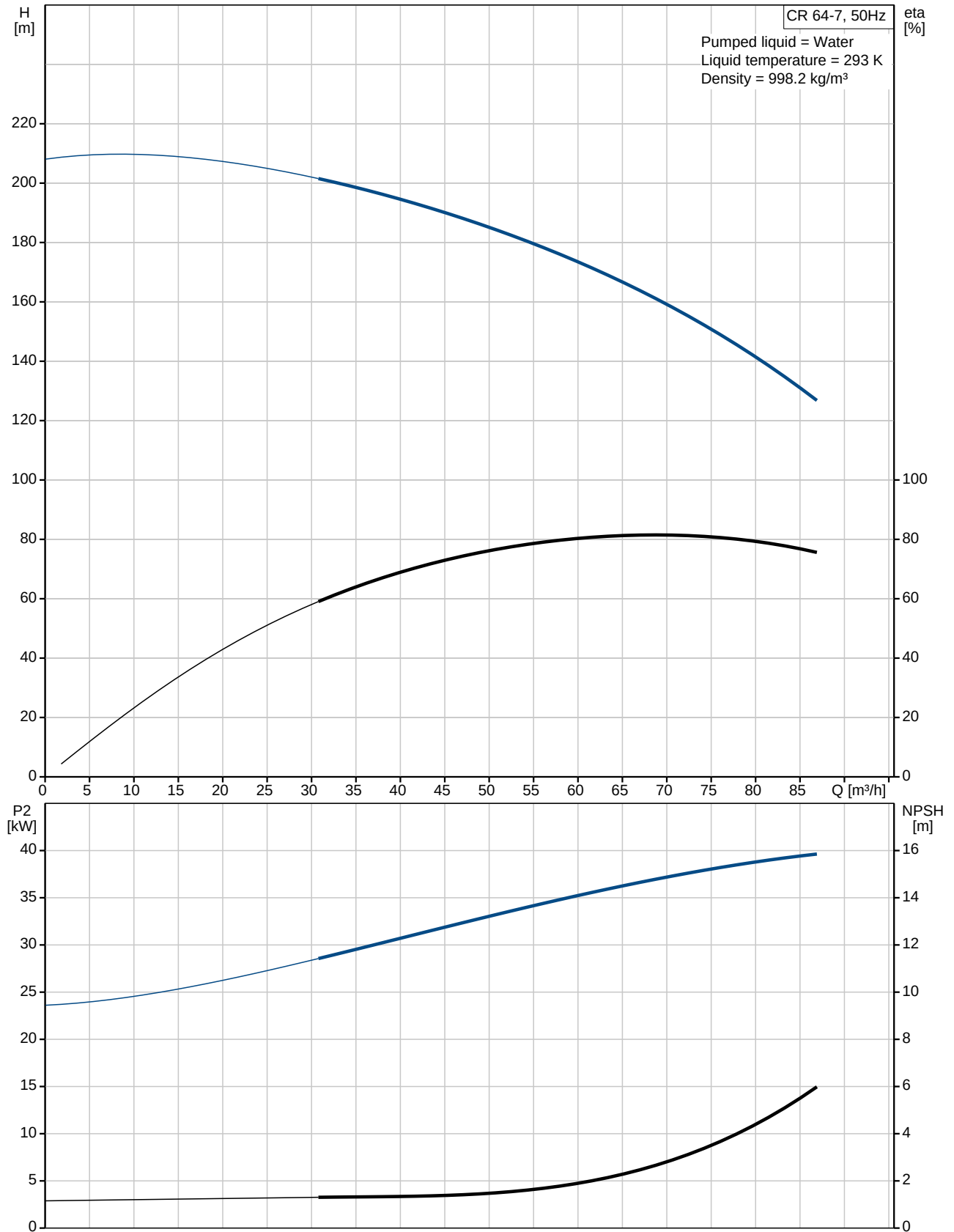
Maximum ambient temperature:	328 K
Max pressure at stated temp:	30 bar / 120 °C 30 bar / -30 °C
Flange standard:	DIN
Pipe connection:	DN 100
Pressure stage:	PN 25 / PN 40
Flange size for motor:	FF400

Electrical data:

Motor type:	SIEMENS
IE Efficiency class:	IE3
Number of poles:	2
Rated power - P2:	45 kW
Power (P2) required by pump:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	81,0-74,0/47,0-43,0 A
Starting current:	690-690 %
Cos phi - power factor:	0,9
Rated speed:	2960 rpm

Position	Qty.	Description
		Efficiency: IE3 94,0% Motor efficiency at full load: 94,0-94,0 % Motor efficiency at 3/4 load: 94,5-94,5 % Motor efficiency at 1/2 load: 94,4-94,4 % Enclosure class (IEC 34-5): 55 (Protect. water jets/dust) Insulation class (IEC 85): F Others: Minimum efficiency index, MEI $\geq$: 0.7 Net weight: 443 kg Gross weight: 494 kg Shipping volume: 0.82 m3

96123545 CR 64-7 50 Hz



Description	Value
Product name:	CR 64-7 A-F-A-E-HQQE
Product No:	96123545
EAN number:	5700396697550

Technical:

Speed for pump data:	2960 rpm
Rated flow:	64 m³/h
Rated head:	165 m
Head max:	206 m
Impellers:	7
Shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO 9906:1999 Annex A
Pump type:	CR 64
Stages:	7
Pump version:	A
Model:	A

Materials:

Pump housing:	Cast iron EN-JS1050 ASTM 80-55-06
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E

Installation:

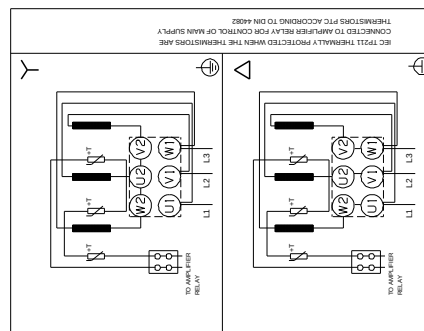
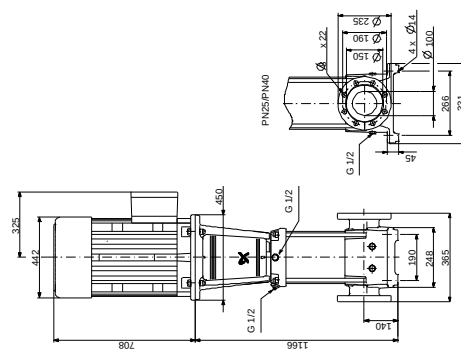
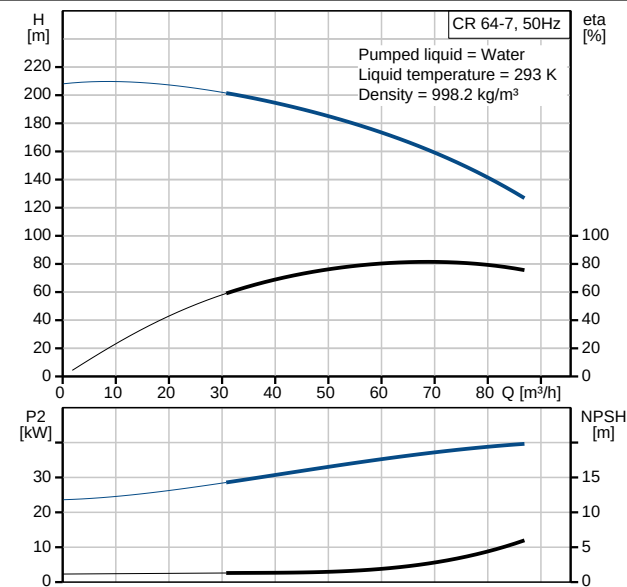
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Number of poles:	2
Rated power - P2:	45 kW
Power (P2) required by pump:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	81,0-74,0/47,0-43,0 A
Starting current:	690-690 %
Cos phi - power factor:	0,9
Rated speed:	2960 rpm
Efficiency:	IE3 94,0%
Motor efficiency at full load:	94,0-94,0 %
Motor efficiency at 3/4 load:	94,5-94,5 %
Motor efficiency at 1/2 load:	94,4-94,4 %
Enclosure class (IEC 34-5):	55 (Protect. water jets/dust)
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15336



Description

Value

Others:

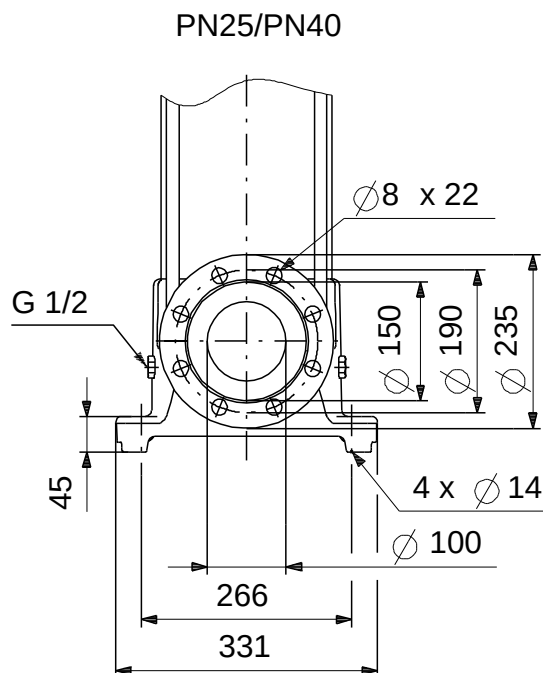
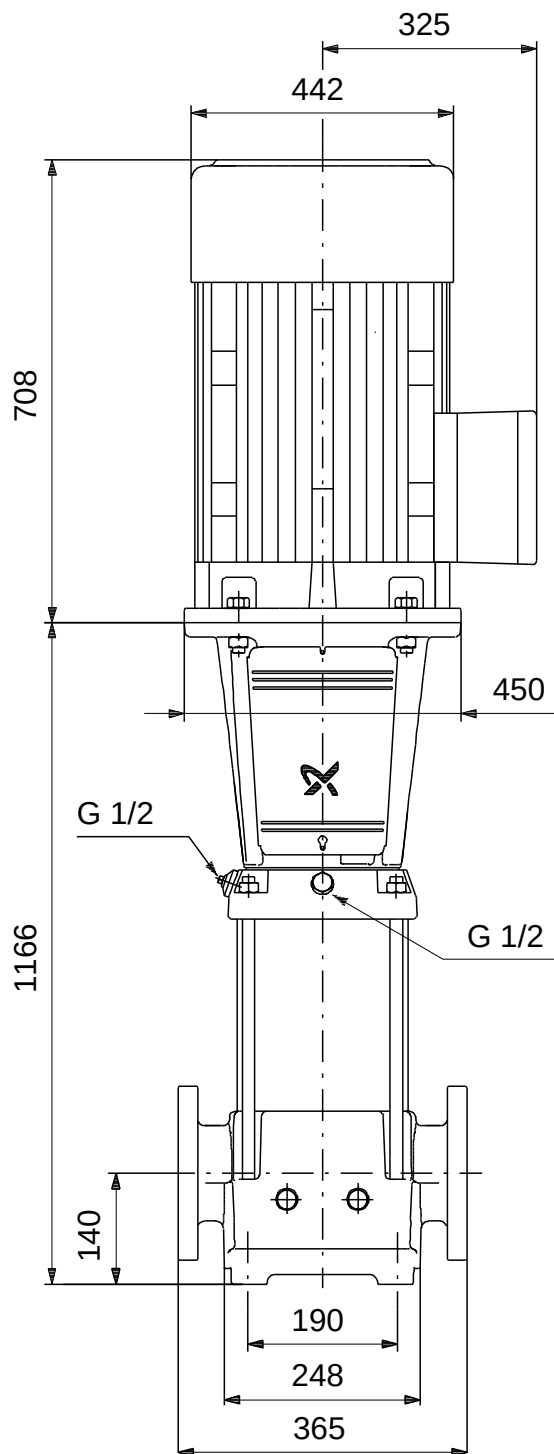
Minimum efficiency index, MEI $\geq$: 0.7

Net weight: 443 kg

Gross weight: 494 kg

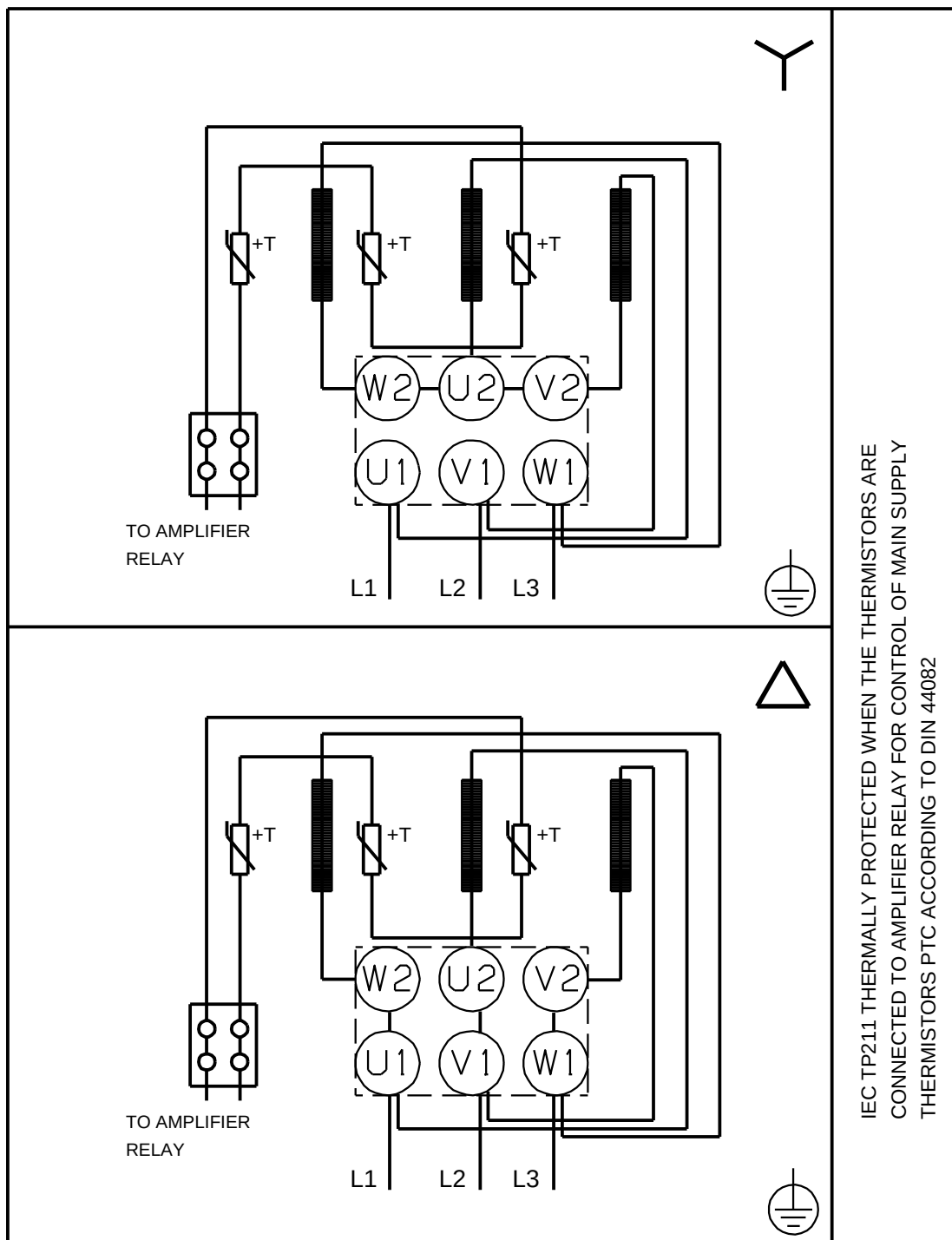
Shipping volume: 0.82 m³

96123545 CR 64-7 50 Hz



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

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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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