

CRNE15-12 A-FGJ-G-E-HQQE 3x400 60 HZ

Grundfos Pump 96514539



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<https://www.lenntech.com/grundfos/CRNE15/96514539/CRNE-15-12-A-FGJ-G-E-HQQE.html>

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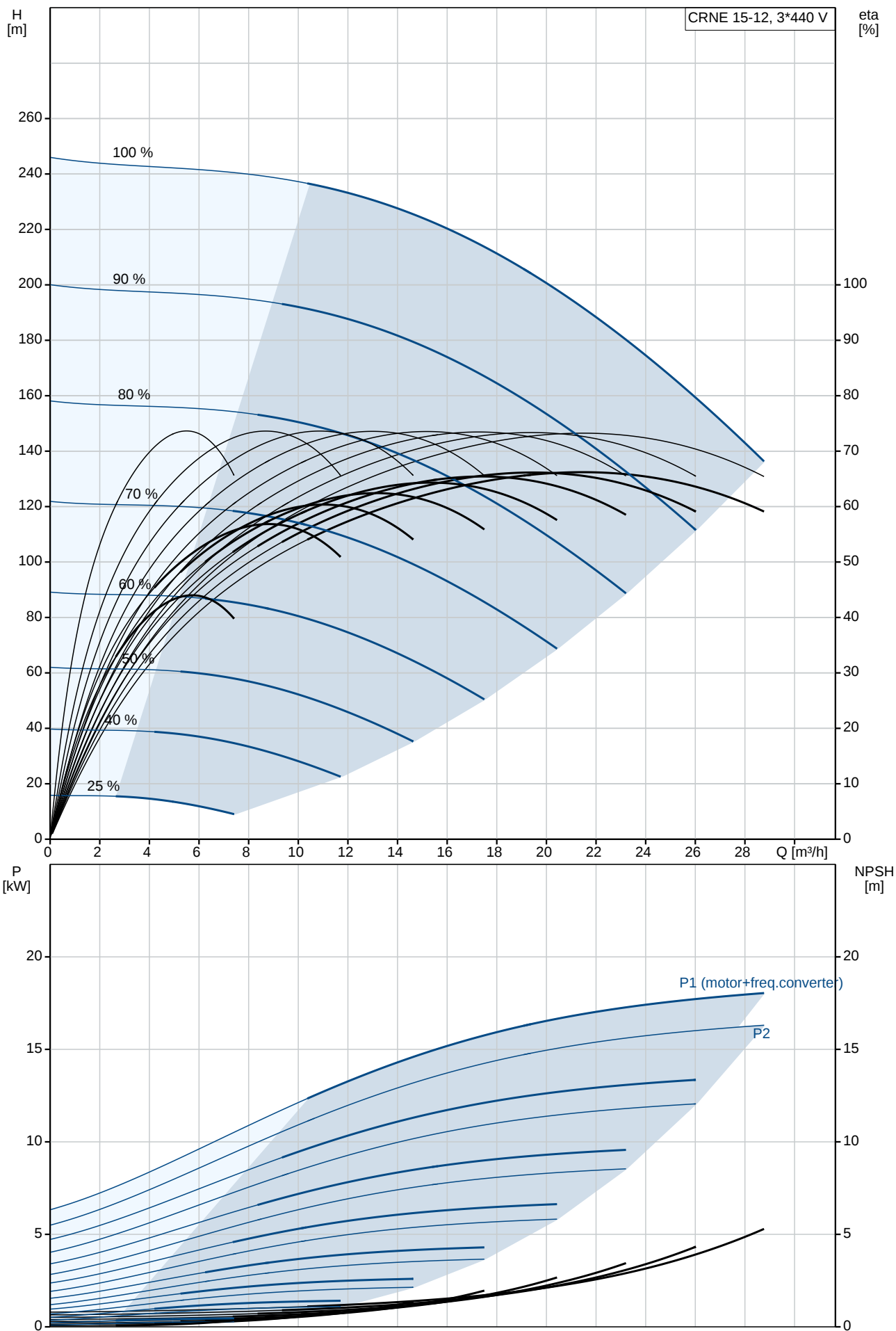
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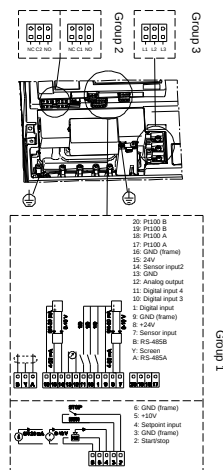
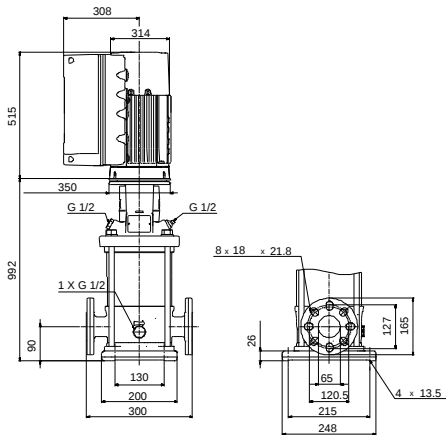
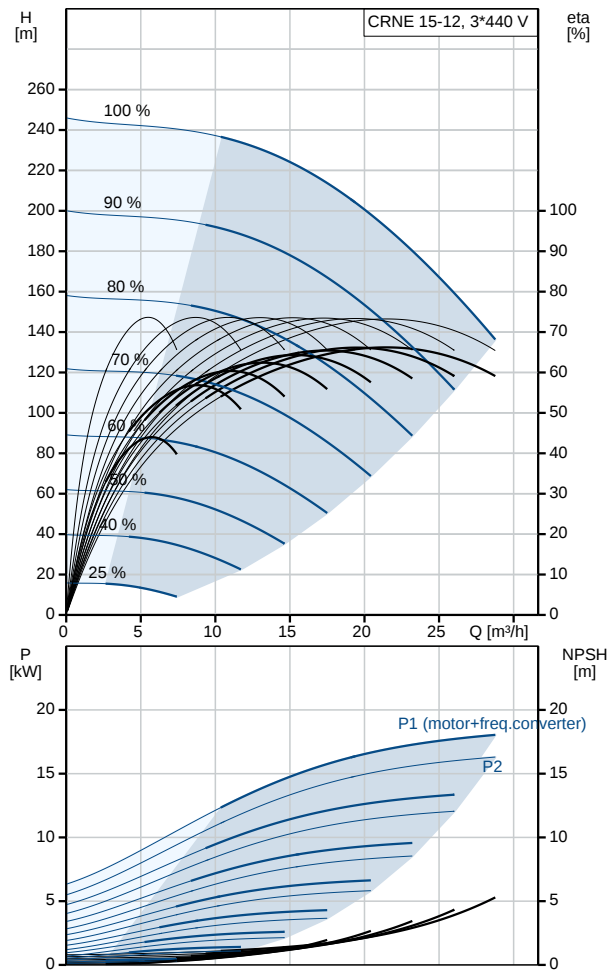
Position	Qty.	Description
	1	CRNE 15-12 A-FGJ-G-E-HQQE  Product No.: 96514539 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers, intermediate chambers and outer sleeve are made of - Pump head cover and base are made of - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. flanges/couplings. The pump is fitted with an IEC-flanged three-phase MGE/MMGE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required as both motor and electronics are protected by integrated overload and temperature protection. External sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required. A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault". Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". The terminal box holds terminals for the connection of: - Pump start/stop (potential-free contact), - external remote setpoint setting via analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 5 V voltage supply for setpoint potentiometer, I_{max} = 5 mA, - sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 24 V voltage supply for sensor, I_{max} = 40 mA, - input for forced control to MIN, MAX, External fault or Flowswitch (potential-free contact), - potential-free fault signal relay with changeover contact, reporting Fault, Operation or Ready, - RS485 GENIbus. Controls: Frequency converter: Built-in

Position	Qty.	Description
		Pressure sensor: N Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Speed for pump data: 3540 rpm Rated flow: 20.5 m³/h Rated head: 197.9 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CE, EAC, ACS Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Bearing: SIC Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 50 2 inch Size of outlet connection: DN 50 2 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: FF300 Electrical data: Motor standard: IEC Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 37,0-31,0 A Cos phi - power factor: 0,91-0,88 Rated speed: 480-3540 rpm Efficiency: IE3 92,4% Motor efficiency at full load: 92.4 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 223 kg Gross weight: 274 kg Shipping volume: 0.82 m³

96514539 CRNE 15-12 50 Hz

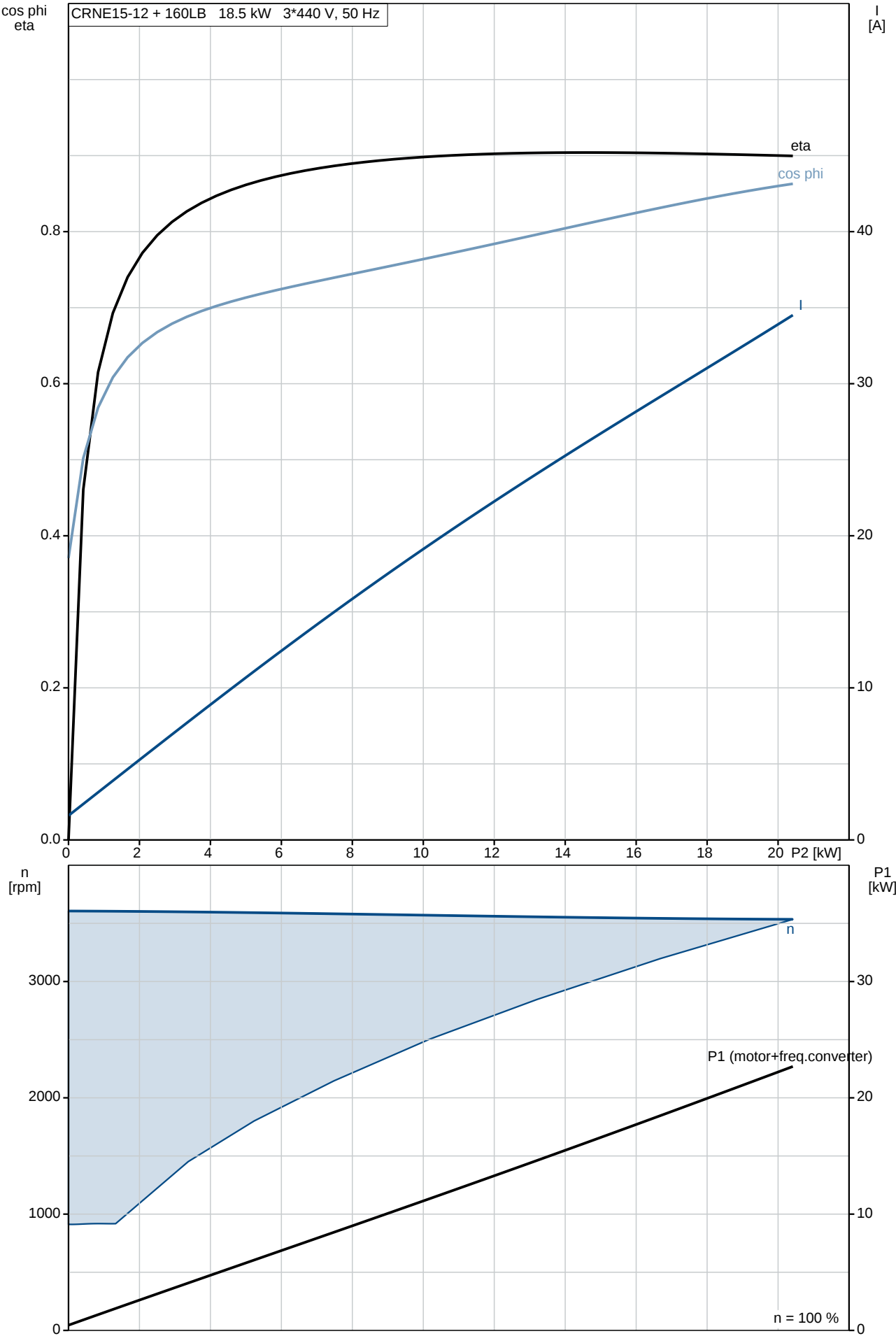


Description	Value
General information:	
Product name:	CRNE 15-12 A-FGJ-G-E-HQQE
Product No:	96514539
EAN number:	5700396708195
Technical:	
Speed for pump data:	3540 rpm
Rated flow:	20.5 m³/h
Rated head:	197.9 m
Stages:	12
Impellers:	12
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC, ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Stainless steel EN 1.4408 AISI 316
Impeller:	Stainless steel EN 1.4401 AISI 316
Material code:	G
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	25 bar
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Type of connection:	DIN / ANSI / JIS
Connect code:	FGJ
Size of inlet connection:	DN 50 2 inch
Size of outlet connection:	DN 50 2 inch
Pressure rating for pipe connection:	PN 25
Flange rating inlet:	300 lb
Flange size for motor:	FF300
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
Motor type:	160LB
IE Efficiency class:	IE3
Rated power - P2:	18.5 kW
Power (P2) required by pump:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	37,0-31,0 A
Cos phi - power factor:	0,91-0,88
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,4%
Motor efficiency at full load:	92.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F



Description	Value
Motor protec:	YES
Motor No:	85901026
Controls:	
Function Module:	ADVANCED I/O
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	223 kg
Gross weight:	274 kg
Shipping volume:	0.82 m ³

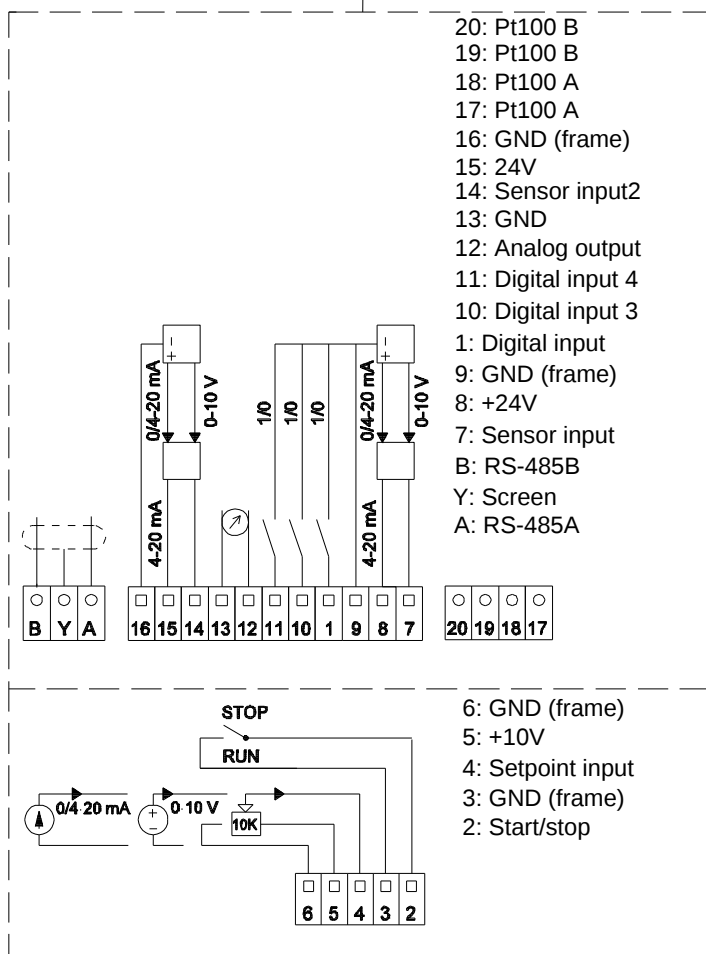
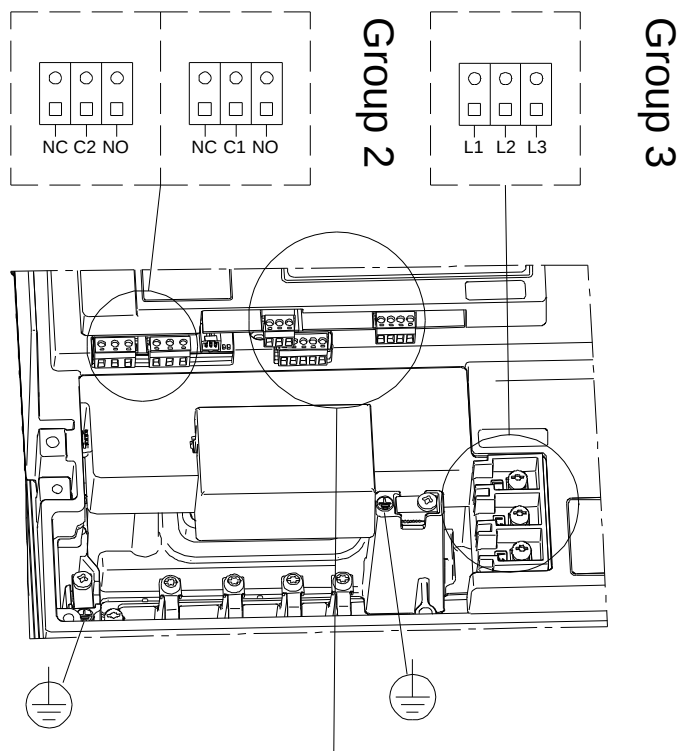
96514539 CRNE 15-12 50 Hz



Technical drawing of a mechanical assembly, showing a side view and a top view. The side view dimensions are: 308 (total height), 314 (height of the upper section), 515 (width of the base), 350 (height of the lower section), and 992 (total width). The top view dimensions are: 165 (width of the upper section), 127 (width of the lower section), 65 (width of the base), 120.5 (width of the base), 215 (width of the base), 248 (width of the base), 26 (width of the base), 8 x 18 x 21.8 (width of the base), 4 x 13.5 (width of the base), 1 x G 1/2 (width of the base), 130 (width of the base), 200 (width of the base), 300 (width of the base), 90 (width of the base), 1 x G 1/2 (width of the base), G 1/2 (width of the base), G 1/2 (width of the base).

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96514539 CRNE 15-12 50 Hz



Note! All units are in [mm] unless others are stated.

*Disclaimer: The information about the Grundfos pump in this document may be outdated.
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