

**Date:** 12/09/2018

Position | Qty. | Description

1 CR 155-3 A-F-A-V-HQQV



Product No.: 99143267

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. The Grundfos cartridge shaft seal ensures high reliability, safe handling, easy access and service.

Power transmission is via a rigid split coupling. Pipework connection is via DIN flanges.

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

Liquid:

Pumped liquid: Water
Liquid temperature range: -20 .. 90 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Rated flow: 155 m³/h
Rated head: 81.6 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQV

Curve tolerance: ISO9906:2012 3B

Materials:

Base: Ductile cast iron

EN 1563 EN-GJS-500-7

Impeller: Stainless steel EN 1.4301

Bearing: WC/WC Support bearing: Graflon

Material certified according to: European standards

Installation:

Maximum ambient temperature: 55 °C

Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 90 °C

Type of connection: DIN
Size of inlet connection: DN 150
Size of outlet connection: DN 150
Pressure rating for pipe connection: PN 16
Flange size for motor: FF400

**Electrical data:** 

Motor standard: IEC
Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 45 kW



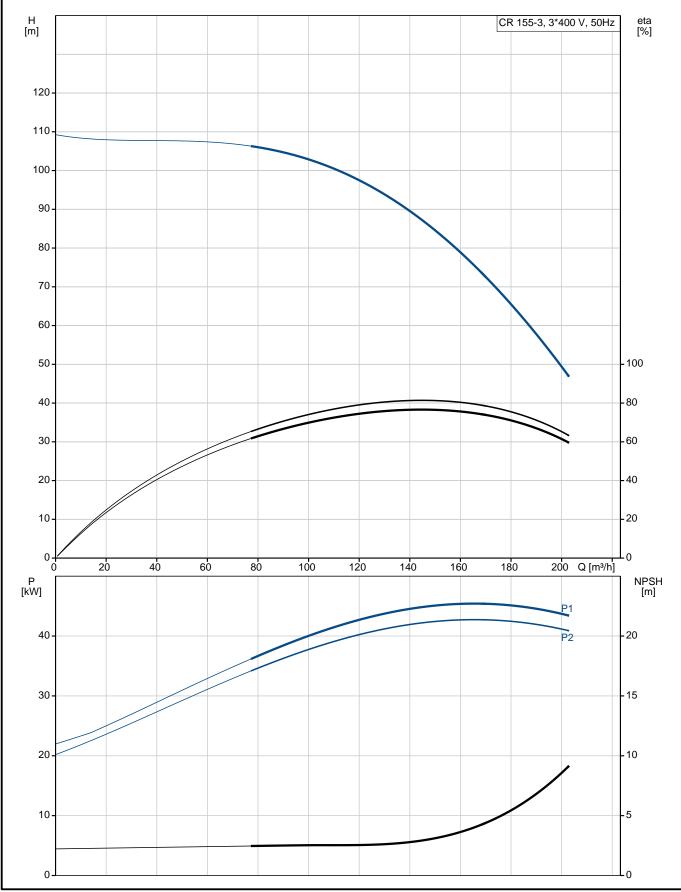
**Date:** 12/09/2018

			Date:	12/09/2018
Position	Qty.	Description		
		Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):	45 kW 50 Hz 3 x 380-420D/660-725Y V 81,0-74,0/47,0-43,0 A 690-690 % 0.89 2960 rpm IE3 94,0% 94.0-94.0 % 94.5-94.5 % 94.4-94.4 % 2 55 Dust/Jetting F	
		Controls: Frequency converter:	Not prepared for VFD	
		Others: Net weight: Gross weight: Shipping volume: Thrust handling device: Approvals:	517 kg 649 kg 1.44 m³ N CE, EAC, ACS, WRAS	



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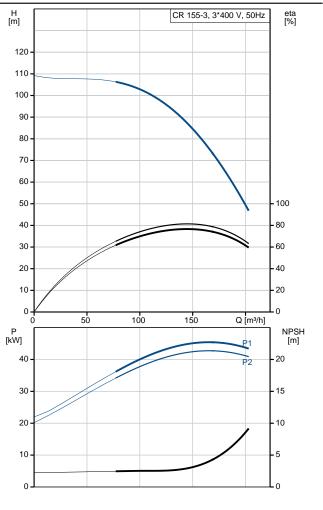
## 99143267 CR 155-3 A-F-A-V-HQQV 50 Hz





**Date:** 12/09/2018

Description	Value
General information:	
Product name:	CR 155-3 A-F-A-V-HQQV
Product No:	99143267
EAN number:	5712607552992
Technical:	
Rated flow:	155 m³/h
Rated head:	81.6 m
Stages:	3
Impellers:	3
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
	•
Cooling:	IC 411
Materials:	Duetile enet in-
Base:	Ductile cast iron
Incompliant	EN 1563 EN-GJS-500-7
Impeller:	Stainless steel
	EN 1.4301
Material code:	A
Code for rubber:	V
Bearing:	WC/WC
Support bearing:	Graflon
Material certified according to:	European standards
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 90 °C
Type of connection:	DIN
Size of inlet connection:	DN 150
Size of outlet connection:	DN 150
Pressure rating for pipe connection:	PN 16
Flange size for motor:	FF400
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 90 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	<u> </u>
Motor standard:	IEC
Motor type:	SIEMENS
IE Efficiency class:	IE3
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:	0.89
Rated speed:	2960 rpm
Efficiency:	IE3 94,0%
	04004001
Motor efficiency at full load: Motor efficiency at 3/4 load:	94.0-94.0 % 94.5-94.5 %





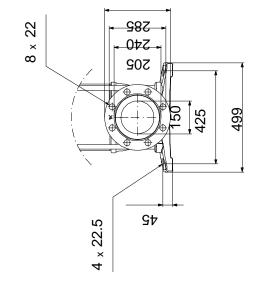
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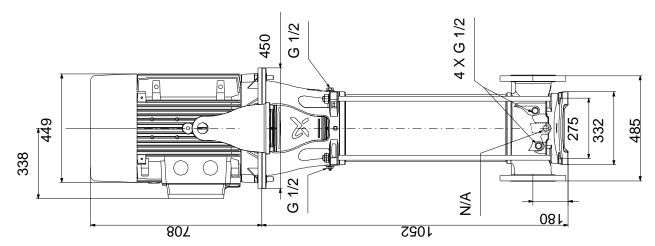
Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15336
Controls:	
Frequency converter:	Not prepared for VFD
Others:	
Net weight:	517 kg
Gross weight:	649 kg
Shipping volume:	1.44 m³
Thrust handling device:	N
Approvals:	CE, EAC, ACS, WRAS



**Date:** 12/09/2018

## 99143267 CR 155-3 A-F-A-V-HQQV 50 Hz



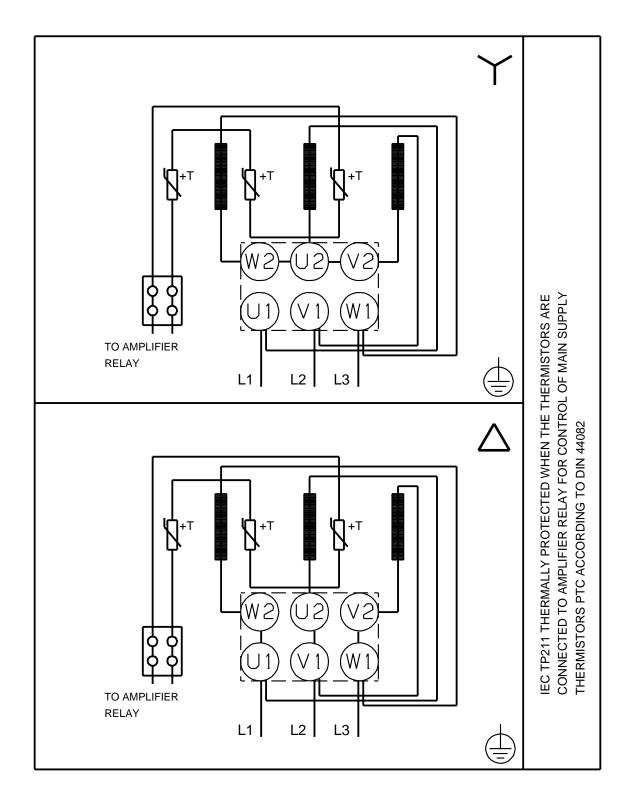


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 12/09/2018

## 99143267 CR 155-3 A-F-A-V-HQQV 50 Hz



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