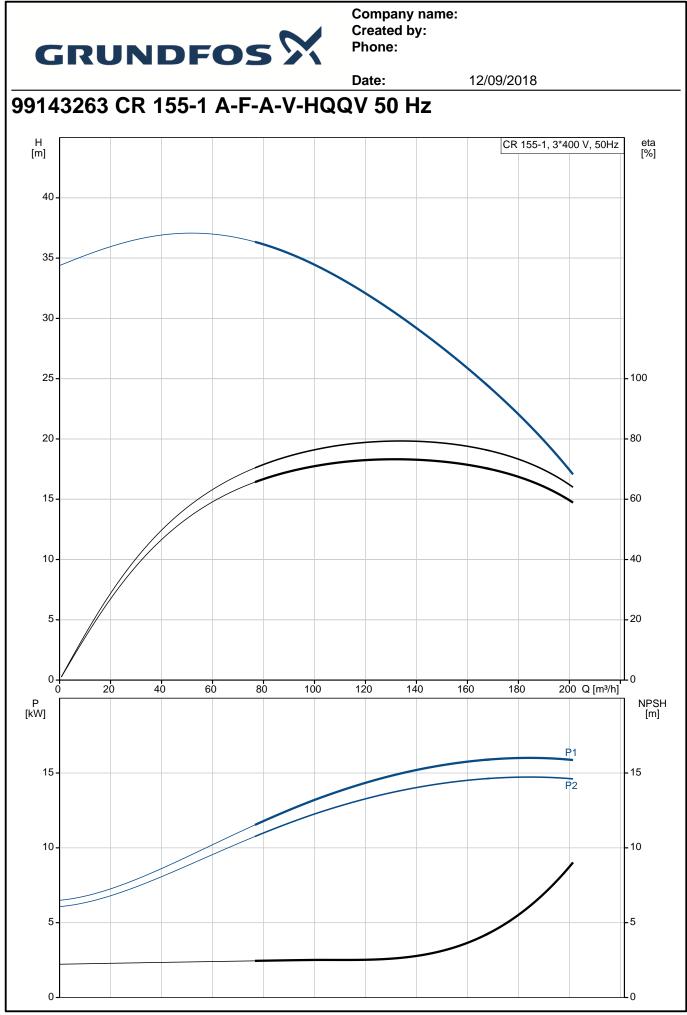
				Company Created k Phone:				
G	R	UNDFOS		Phone:				
				Date:		12/09/2018		
Position	Qty.	Description						
	1	CR 155-1 A-F-A-V-HQQV						
		Product No.: 99143263						
		Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal 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, s handling, easy access and service.						
		Power transmission is via a rigid	split coupli	ng. Pipewor	k connect	tion is via DIN flanges.		
		The pump is fitted with a 3-phase	e, fan-coole	ed asynchroi	nous moto	or.		
		Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during opera Density:	Water -20 90 °( tion: 20 °C 998.2 kg/n	;				
		<b>Technical:</b> Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Curve tolerance:	155 m <sup>3</sup> /h 26.7 m Vertical Single HQQV ISO9906:2	2012 3B				
		Materials: Base: Impeller: Bearing: Support bearing: Material certified according to:	Ductile cas EN 1563 E Stainless s EN 1.4301 WC/WC Graflon European	EN-GJS-500 steel	-7			
		Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connect Flange size for motor:	16 bar 16 bar / 9 DIN DN 150 DN 150					
		Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	IEC 160MD IE3 15 kW					



Company name: Created by: Phone:

			Date:	12/09/2018
ition	Qty.			
		Power (P2) required by pump:		
		Mains frequency:	50 Hz	
		Rated voltage:	3 x 380-415D/660-690Y V	
		Rated current:	28,0-26,0/16,2-15,6 A	
		Starting current:	660-780 %	
		Cos phi - power factor:	0.89-0.87	
		Rated speed:	2930-2950 rpm	
		Efficiency:	IE3 91,9%	
		Motor efficiency at full load:	91.9-91.9 %	
		Motor efficiency at 3/4 load:	92.4 %	
		Motor efficiency at 1/2 load:	92.4 %	
		Number of poles:	2	
		Enclosure class (IEC 34-5):	55 Dust/Jetting	
		Insulation class (IEC 85):	F	
		Controls:		
		Frequency converter:	Not prepared for VFD	
		Others: Net weight:	245 kg	
		Gross weight:	296 kg	
		Shipping volume:	0.928 m <sup>3</sup>	
		Thrust handling device:	N	
		Approvals:	CE, EAC, ACS, WRAS	





## Company name: Created by: Phone:

		Date:	12/09	9/2018	
Description	Value	H [m]		CR 155-1, 3	400 V, 50Hz
General information:	Value				
Product name:	CR 155-1 A-F-A-V-HQQV	40 -			
Product No:	99143263	-			
EAN number:	5712607552916	35 -			
Technical:	5712007552510	_			
Rated flow:	155 m³/h	30 -			
Rated head:	26.7 m	-			
	1				
Stages: Impellers:	1	25 -			· · · · · ·
Low NPSH:	N	_			
	Vertical	20 -			
Pump orientation:		_			$\sim$
Shaft seal arrangement:	Single	15 -			
Code for shaft seal:	HQQV	_			
Curve tolerance:	ISO9906:2012 3B	10-	//		
Pump version:	A	//	/		
Model:	A	/ /			
Cooling:	IC 411	5-			
Materials:	Duetile erst inst	- //			
Base:	Ductile cast iron	• • <del>/</del>	50 10	0 150	Q [m³/h]
lese alla e	EN 1563 EN-GJS-500-7	- P		100	ر برا بر
Impeller:	Stainless steel	[kW]			
	EN 1.4301	15			P1
Material code:	A	15 -			P2
Code for rubber:	V	_			
Bearing:	WC/WC	10-			
Support bearing:	Graflon	-			
Material certified according to: Installation:	European standards	5-			
Maximum ambient temperature:	60 °C	_			
Maximum operating pressure:	16 bar				
Max pressure at stated temp:	16 bar / 90 °C	0			
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:	FF300				
Connect code:	F				
Liquid:					
Pumped liquid:	Water				
Liquid temperature range:	-20 90 °C				
Liquid temperature during operation:	20 °C				
Density:	998.2 kg/m <sup>3</sup>				
Electrical data:					
Motor standard:	IEC				
Motor type:	160MD				
IE Efficiency class:	IE3				
Rated power - P2:	15 kW				
Power (P2) required by pump:	15 kW				
Mains frequency:	50 Hz				
Rated voltage:	3 x 380-415D/660-690Y V				
Rated current:	28,0-26,0/16,2-15,6 A				
Starting current:					
-	660-780 %				
Cos phi - power factor:	0.89-0.87				
Rated speed:	2930-2950 rpm				
Efficiency:	IE3 91,9%				
Motor efficiency at full load:	91.9-91.9 %				
Motor efficiency at 3/4 load:	92.4 %				
Motor efficiency at 1/2 load:	92.4 %				



Company name: Created by: Phone:

		Date:	12/09/2018	
Description	Value			
Number of poles:	2			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protec:	PTC			
Motor No:	85U17526			
Controls:				
Frequency converter:	Not prepared for VFD			
Others:				
Net weight:	245 kg			
Gross weight:	296 kg			
Shipping volume:	0.928 m³			
Thrust handling device:	Ν			
Approvals:	CE, EAC, ACS, WRAS			

