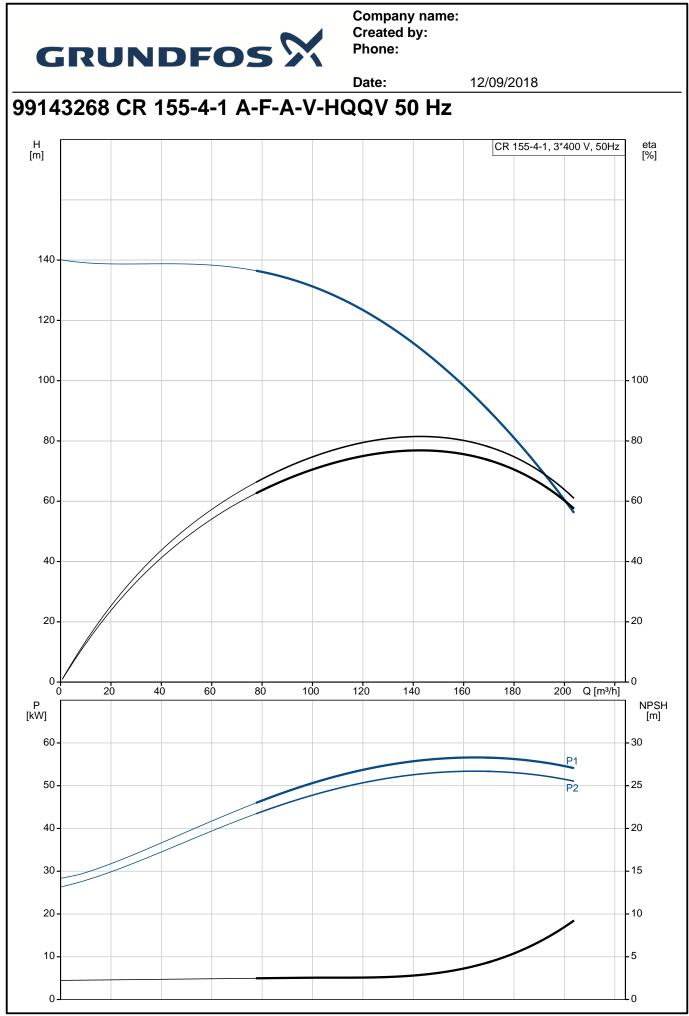
G	R	UNDFOS	Company r Created by Phone:				
			Date:	12/09/2018			
osition	Qty.	Description					
	1	CR 155-4-1 A-F-A-V-HQQV					
		Product No.: 99143268					
		Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-li enabling installation in a horizontal one-pipe system. The pump head and base are in cast irc other wetted parts are in stainless steel. The Grundfos cartridge shaft seal ensures high relia 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: Liquid temperature range: Liquid temperature during opera Density:	Water -20 90 °C tion: 20 °C 998.2 kg/m³				
		Technical: Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Curve tolerance:	155 m³/h 102.1 m Vertical Single HQQV ISO9906:2012 3B				
		Materials: Base:	Ductile cast iron EN 1563 EN-GJS-500-7				
		Impeller:	Stainless steel EN 1.4301				
		Bearing:	WC/WC Graflon				
		Support bearing: 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: Size of inlet connection:	DIN DN 150				
		Size of outlet connection:	DN 150 DN 150				
		Pressure rating for pipe connect Flange size for motor:					
		Electrical data:					
		Motor standard: Motor type:	IEC SIEMENS				
		IE Efficiency class:	IE3				
		Rated power - P2:	55 kW				



Company name: Created by: Phone:

		UNDFOS		12/00/2018
sition	Qty.	Description	Date:	12/09/2018
nion	QLY.			
		Power (P2) required by pump:	55 kW	
		Mains frequency:	50 Hz	
		Rated voltage: Rated current:	3 x 380-420D/660-725Y V	
			99,0-90,0/57,0-52,0 A 670-670 %	
		Starting current: Cos phi - power factor:	0.89	
		Rated speed:	2975 rpm	
		Efficiency:	IE3 94,3%	
		Motor efficiency at full load:	94.3-94.3 %	
		Motor efficiency at 3/4 load:	94.5-94.5 %	
		Motor efficiency at 1/2 load:	93.9-93.9 %	
		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:	637 kg	
		Gross weight:	798 kg	
		Shipping volume:	2.03 m ³	
		Thrust handling device:	N	
		Approvals:	CE, EAC, ACS, WRAS	





Company name: Created by: Phone:

		· /			
Description	Value	H [m]		CR 155-4-1, 3*40	00 V, 50Hz
General information:					
Product name:	CR 155-4-1 A-F-A-V-HQQV				
Product No:	99143268				
EAN number:	5712607553012	140 -			
Technical:		-			
Rated flow:	155 m³/h	120 -			
Rated head:	102.1 m	-			
Stages:	4	100 -			
Impellers:	4				
Number of reduced dispector	4	80 -			
Number of reduced-diameter impellers:	1	00			
Low NPSH:	Ν				
Pump orientation:	Vertical	60 -			Ň
Shaft seal arrangement:	Single				
Code for shaft seal:	HQQV	40 -			
Curve tolerance:	ISO9906:2012 3B				
Pump version:	A	20-			
Model:	A				
Cooling:	IC 411	0			
Materials:		0	50 100	150	Q [m³/h]
Base:	Ductile cast iron	P [kW]			
	EN 1563 EN-GJS-500-7	-			
Impeller:	Stainless steel				
····	EN 1.4301	50 -			P2
Material code:	A	40 -			
Code for rubber:	V				
Bearing:	WC/WC	30-			
Support bearing:	Graflon	20 -			
Material certified according to:	European standards				
Installation:	European standards	10 -			
Maximum ambient temperature:	55 °C	0			
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:	FF500				
Connect code:	F				
Liquid:	1				
Pumped liquid:	Water				
Liquid temperature range:	-20 90 °C				
Liquid temperature during operation:	20 °C				
Density:	998.2 kg/m³				
Electrical data:	150				
Motor standard:	IEC				
Motor type:	SIEMENS				
IE Efficiency class:	IE3				
Rated power - P2:	55 kW				
Power (P2) required by pump:	55 kW				
Mains frequency:	50 Hz				
Rated voltage:	3 x 380-420D/660-725Y V				
Rated current:	99,0-90,0/57,0-52,0 A				
Starting current:	670-670 %				
Cos phi - power factor:	0.89				
Rated speed:	2975 rpm				
Efficiency:	IE3 94,3%				
Motor efficiency at full load:	94.3-94.3 %				

NPSH [m]



Company name: Created by: Phone:

		Date:	
Description	Value		
Motor efficiency at 3/4 load:	94.5-94.5 %		
Motor efficiency at 1/2 load:	93.9-93.9 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	81U15338		
Controls:			
Frequency converter:	Not prepared for VFD		
Others:			
Net weight:	637 kg		
Gross weight:	798 kg		
Shipping volume:	2.03 m ³		
Thrust handling device:	Ν		
Approvals:	CE, EAC, ACS, WRAS		

