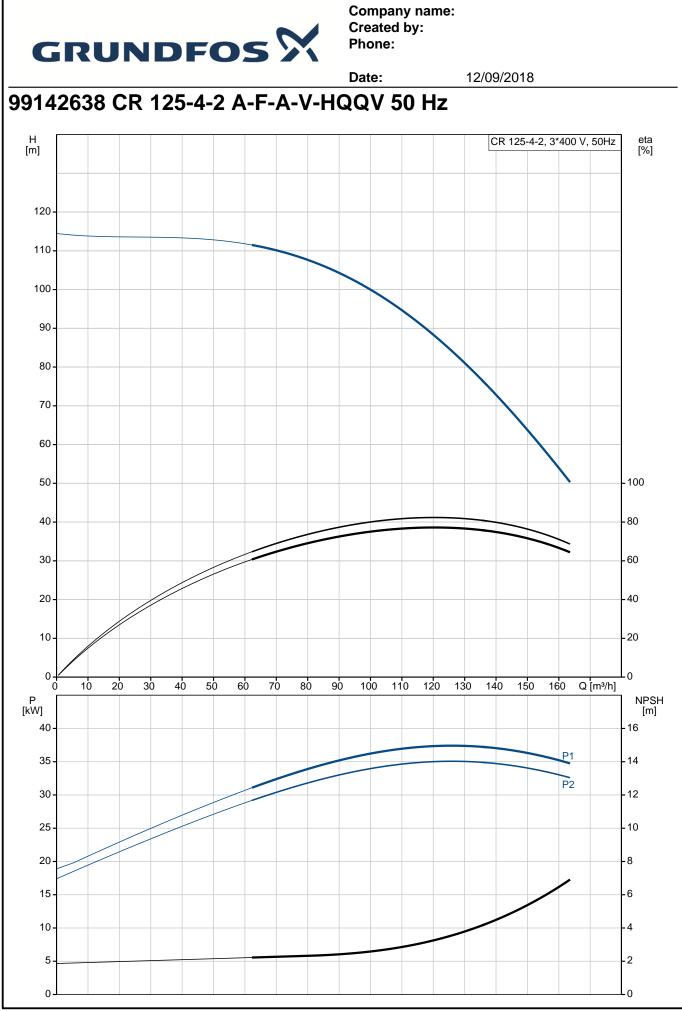
Position Oty. Pescription 1 CR 1254-2 AF-AV-HQQV Image: Creating the second of the				Company r			
Date: 12/09/2018 Position Qty Description 1 CR 125-42 AF-AV-HQQV Image: Product No: 99142638 Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal anon-pipe system. The pump head and base are in cast iron - all other wetted parts are in stainless site. The Grundos 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 temperature range: -20 . 90 °C Liquid temperature range: -20 . 90 °C Liquid temperature during operation: 20 °C Density: 999.2 kg/m ³ Technical: Rated flow: Rated flow: 125 m³/h Rated flow: 125 m³/h Rated flow: 1503 996.2012 3B Material Edition and misses steel Ease: Europol Curve tolerance: 15039906.2012 3B Material certified according to: European standards Hasting: Grafin Material certified according to: European standards Hasting: Grafin Material certified according to: European standards Hasting:				Created by	:		
Date: 12/09/2018 Position Qty Description 1 CR 125-42 AF-AV-HQQV Image: Product No: 99142638 Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal anon-pipe system. The pump head and base are in cast iron - all other wetted parts are in stainless site. The Grundos 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 temperature range: -20 . 90 °C Liquid temperature range: -20 . 90 °C Liquid temperature during operation: 20 °C Density: 999.2 kg/m ³ Technical: Rated flow: Rated flow: 125 m³/h Rated flow: 125 m³/h Rated flow: 1503 996.2012 3B Material Edition and misses steel Ease: Europol Curve tolerance: 15039906.2012 3B Material certified according to: European standards Hasting: Grafin Material certified according to: European standards Hasting: Grafin Material certified according to: European standards Hasting:	G	RI	UNDFOS	Phone:			
1 CR 125-42 A-F-A-V-HQQV Product No: 99142638 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 witted parts are in statiness steel. The orundos 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 temperature range: -90 °C Higuid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Naterial Rated flow: 125 m³/h Rated flow: 125 m³/h Rated flow: 125 m3/h Rated flow: 1508 906-2012 3B Material: H20/h Urve tolerancoc: 1503 8N-G35-500-7 <					12/09/2018		
Product No: 99142638 Vertical, multistage contribugal pump with suction and discharge ports on same the leval (in-line) enabling installation in a horization can be served. Power transmission is via a rigid split coupling. Pipework connection is via DIN flanges. 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 temperature range: -20 . 0 °C Liquid temperature during person: 20 °C Density: 998.2 kg/m ³ Technical: Rated flow; verson: 125 mVh Rated head: 84.6 m Pump of instaine: Vortical Shati seal arrangement: Single Code for shaft seal: reson: KOGV Curve tolerance: ISO9906/2012 3B Base: Curve tolerance: Statione: Station: 20 °C Bersity: WCWG Support bearing: Grafion Material certified according to: European standards Base: Code for shaft seal: Curve tolerance: European standards Material certified according to: European standards Material certified according to: European standards Material certified according: DN 150 Size of outlet connection: DN 150 Size of outlet connection: DN 150 Size of outlet connection: DN 150 Size of routlet connection: DN 150 Size o	Position	Qty.	Description				
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 bases are in cast iron - all other wetted parts are in stalanless 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 during operation: 20 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 125 m²/h Rated flow: 125 m²/h Rated flow: 150 m²/h Rated flow: 125 m²/h Rated flow: 120 m²/h Code for shaft sea		1	CR 125-4-2 A-F-A-V-HQQV				
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 bases are in cast iron - all other wetted parts are in stalanless 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 during operation: 20 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 125 m²/h Rated flow: 125 m²/h Rated flow: 150 m²/h Rated flow: 125 m²/h Rated flow: 120 m²/h Code for shaft sea							
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 bases are in cast iron - all other wetted parts are in stalanless 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 during operation: 20 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 125 m²/h Rated flow: 125 m²/h Rated flow: 150 m²/h Rated flow: 125 m²/h Rated flow: 120 m²/h Code for shaft sea							
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: -2090 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: Rated flow: 125 m³/h Rate allow: Not Curve tolerance: ISO906:2012 3B Material certified cance: HQQV Curve toleran							
The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Liquid temperature range: -2090 °C Liquid temperature range: -2090 °C Liquid temperature range: -2090 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: 84.6 m Rated flow: 125 m³/h Rated head: 84.6 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Curve tolerance: ISO9906:2012 3B Materials: Base: Base: Ductlie cast iron EN 1.4301 Bearing: Support bearing: Grafion Material certified according to: European standards Installation: Maximum ambient temperature: 55 °C Maximum ambient temperature: 55 °C Maximum ambient temperature: 55 °C Maximum ambient temperature: 55 °C Maximum ambient temperature: 55 °C Maximum ambient temperature: 50 °C Type of connection: DN 150 S			Vertical, multistage centrifugal p enabling installation in a horizon other wetted parts are in stainles handling, easy access and servi	ump with suction and disc tal one-pipe system. The is steel. The Grundfos ca ce.	charge ports on same the level (in-line) pump head and base are in cast iron – all rtridge shaft seal ensures high reliability, safe		
Liquid: Water Liquid temperature range: -2090 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: 84.6 m Rated flow: 125 m³/h Rated flow: 125 m³/h Rated flow: 125 m³/h Rated head: 84.6 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Curve tolerance: ISO9906:2012 3B Materials: Extra transference Base: Ductile cast iron EN 1563 EN-GJS-500-7 Impeller: Stainless steel EN 1.4301 Bearing: WC/WC Support bearing: Grafton Material certified according to: European standards Installation: Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar/ 90 °C Type of connection: DN 150 Size of inlet connection: DN 150 Size of outlet connection: DN 150 Pressure rating for pipe connection: PN 16 </td <th></th> <td></td> <td>Power transmission is via a rigid</td> <td>split coupling. Pipework</td> <td>connection is via DIN flanges.</td>			Power transmission is via a rigid	split coupling. Pipework	connection is via DIN flanges.		
Punped liquid: Water Liquid temperature range: -2090 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 125 m³/h Rated flow: 125 m³/h Rated head: 84.6 m Punp orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Curve tolerance: ISO9906:2012 3B Materials: Base: Base: Ductile cast iron EN 1663 EN-GJS-500-7 Impeller: Base: Ductile cast iron EN 1.4301 Bearing: Bearing: WC/WC Support bearing: Grafion Material certified according to: European standards Installation: Maximum ambient temperature: Maximum aperating pressure: 16 bar Maximum aperating pressure: 16 bar Maximum aperation: DN 150 Size of inlet connection: DN 150 Size of inlet connection: DN 150 Size of ontotor: <th></th> <td></td> <td>The pump is fitted with a 3-phas</td> <td colspan="4">th a 3-phase, fan-cooled asynchronous motor.</td>			The pump is fitted with a 3-phas	th a 3-phase, fan-cooled asynchronous motor.			
Technical: Rated flow: 125 m³/h Rated head: 84.6 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Curve tolerance: ISO9906:2012 3B Materials: Base: 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 / 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: FF350 Electrical data: Motor standard: Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3			Pumped liquid: Liquid temperature range: Liquid temperature during opera	-20 90 °C tion: 20 °C			
Rated flow:125 m³/hRated head:84.6 mPump orientation:VerticalShaft seal arrangement:SingleCode for shaft seal:HQQVCurve tolerance:ISO9906:2012 3BMaterials:EN 1563 EN-GJS-500-7Base:Ductile cast iron EN 1563 EN-GJS-500-7Impeller:Stainless steel EN 1.4301Bearing:WC/WCSupport bearing:Grafton Material certified according to:European standardsInstallation:Maximum ambient temperature:55 °C Maximum ambient temperature:Maximum operating pressure:16 bar / 90 °C Type of connection:DIN Size of inlet connection:DN 150 Size of outlet connection:Size of outlet connection:DN 150 Flange size for motor:Flange size for motor:FF350Electrical data: Motor type:IEC Motor type:Motor type:SIEMENS IE Efficiency class:IE Efficiency class:IE3				550.2 kg/m			
Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Curve tolerance: ISO9906:2012 3B Materials: Base: Base: Ductile cast iron EN 1563 EN-GJS-500-7 Impeller: Stainless steel Earing: WC/WC Support bearing: Graflon Material certified according to: European standards Installation: Maximum ambient temperature: 55 °C Maximum operating pressure: 16 bar / 90 °C Type of connection: DN 150 Size of inlet connection: DN 150 Size of outlet connection: DN 150 Pressure rating for pipe connection: PN 16 Flange size for motor: FF350 Electrical data: IEC Motor standard: IEC				125 m³/h			
Shaft seal arrangement: Single Code for shaft seal: HQQV Curve tolerance: ISO9906:2012 3B Materials: Base: 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 operating pressure: Maximum operating pressure: 16 bar Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 90 °C Type of connection: DN 150 Size of inlet connection: DN 150 Size of outlet connection: DN 150 Pressure rating for pipe connection: PN 16 Flange size for motor: FF350 Electrical data: Motor standard: Motor type: SIEMENS IE Efficiency class: IE3							
Code for shaft seal: HQQV Curve tolerance: ISO9906:2012 3B Materials: Base: Ductile cast iron Base: Ductile cast iron EN 1563 EN-GJS-500-7 Impeller: Stainless steel EN 1.4301 Bearing: WC/WC Support bearing: Grafton 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: DN 150 Size of inlet connection: DN 150 Pressure rating for pipe connection: PN 16 Flange size for motor: FF350 Electrical data: Motor standard: Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3							
Curve tolerance: ISO9906:2012 3B Materials: Base: Ductile cast iron Base: Ductile cast iron EN 1563 EN-GJS-500-7 Impeller: Stainless steel EN 1.4301 Bearing: WC/WC Support bearing: Grafton Material certified according to: European standards Installation: Maximum operating pressure: 16 bar Maximum operating pressure: 16 bar Maximum operating pressure: Max pressure at stated temp: 16 bar / 90 °C Type of connection: DN 150 Size of inlet connection: DN 150 Size of outlet connection: DN 150 Pressure rating for pipe connection: PN 16 Flange size for motor: FT30 Electrical data: Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3 SIEMENS IE3			u u u u u u u u u u u u u u u u u u u				
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 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: F350 Electrical data: Motor standard: Motor type: SIEMENS IE Efficiency class: IE3							
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Impeller: Stainless steel EN 1.4301 Bearing: WC/WC Support bearing: Graflon Material certified according to: European standards Installation: European standards 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: FF350 Electrical data: Motor standard: Motor type: SIEMENS IE Efficiency class: IE3			Base:				
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: FF350 Electrical data: Motor standard: Motor type: SIEMENS IE Efficiency class: IE3			Impeller:				
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: FF350 Electrical data: Motor standard: Motor type: SIEMENS IE Efficiency class: IE3							
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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: FF350 Electrical data: IEC Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3							
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: FF350 Electrical data: IEC Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3			Material certified according to:	European standards			
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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: FF350 Electrical data: IEC Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3			Maximum ambient temperature:	55 °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: FF350 Electrical data: IEC Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3							
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Size of outlet connection: DN 150 Pressure rating for pipe connection: PN 16 Flange size for motor: FF350 Electrical data: Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3							
Pressure rating for pipe connection: PN 16 Flange size for motor: FF350 Electrical data: IEC Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3							
Flange size for motor: FF350 Electrical data: FF350 Motor standard: IEC Motor type: SIEMENS IE Efficiency class: IE3							
Motor standard:IECMotor type:SIEMENSIE Efficiency class:IE3							
Motor standard:IECMotor type:SIEMENSIE Efficiency class:IE3			Electrical data:				
Motor type: SIEMENS IE Efficiency class: IE3				IEC			
IE Efficiency class: IE3							
Rated power - P2: 37 kW			IE Efficiency class:	IE3			
			Rated power - P2:	37 kW			



Company name: Created by: Phone:

Qty.	Description Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor:	37 kW 50 Hz 3 x 380-420D/660-725Y V	
	Mains frequency: Rated voltage: Rated current: Starting current:	50 Hz 3 x 380-420D/660-725Y V	
	Rated voltage: Rated current: Starting current:	3 x 380-420D/660-725Y V	
	Rated current: Starting current:		
	Starting current:		
		68,0-63,0/39,0-36,0 A	
		670-670 % 0.87	
	Rated speed:	2955 rpm	
	Efficiency:	IE3 93,7%	
	Motor efficiency at full load:	93.7-93.7 %	
	Motor efficiency at 3/4 load:	93.9-93.9 %	
	Motor efficiency at 1/2 load:	93.5-93.5 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5):	55 Dust/Jetting	
	Insulation class (IEC 85):	F	
	Controls:		
		Not prepared for VFD	
		432 ka	
		1.32 m ³	
	Thrust handling device:	Ν	
	Approvals:	CE, EAC, ACS, WRAS	
	Custom tariff no.:	84137075	
		Frequency converter: Others: Net weight: Gross weight: Shipping volume: Thrust handling device:	Frequency converter:Not prepared for VFDOthers:432 kgGross weight:501 kgShipping volume:1.32 m³Thrust handling device:NApprovals:CE, EAC, ACS, WRASCountry of origin:DK



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Company name: Created by: Phone:

		Date:	12/0	9/2018			
Description	Value	H [m]		CR 1	25-4-2, 3	3*400 V, 50)Hz
General information:					_		
Product name:	CR 125-4-2 A-F-A-V-HQQV	120 -					
Product No:	99142638						
EAN number:	5712607541422	110 -					
Price:	10.262,00 GBP	100 -					
Technical:							
Rated flow:	125 m³/h	90 -					
Rated head:	84.6 m	80 -					
Stages:	4	70					
Impellers:	4	70 -					
impellers.	4	60 -					
Number of reduced-diameter	2	50					
impellers: Low NPSH:	Ν	50 -				•	- 10
Pump orientation:	Vertical	40 -					- 80
•							
Shaft seal arrangement:	Single	30 -					- 60
Code for shaft seal:	HQQV	20 -					- 40
Curve tolerance:	ISO9906:2012 3B						
Pump version:	A	10-					- 20
Model:	A	o 🖌 🕇					0
Cooling:	IC 411	0 20	40 60 8	30 100	120 1	40 Q[m	-
Materials:		P [kW]					
Base:	Ductile cast iron					P1	
	EN 1563 EN-GJS-500-7	35 -					- 14
Impeller:	Stainless steel	30 -				P2	- 12
·	EN 1.4301	25 -					- 10
Material code:	A	20 -					- 8
Code for rubber:	V						
Bearing:	WC/WC	15 -					- 6
Support bearing:	Graflon	10 -					- 4
Material certified according to:	European standards	5 -					-2
Installation:	European standards	0					0
Maximum ambient temperature:	55 °C	°,					Ū
•							
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:	FF350						
Connect code:	F						
Liquid:							
Pumped liquid:	Water						
Liquid temperature range:	-20 90 °C						
Liquid temperature during operation:	20 °C						
Density:	998.2 kg/m ³						
Electrical data:	5						
Motor standard:	IEC						
Motor type:	SIEMENS						
IE Efficiency class:	IE3						
-							
Rated power - P2:	37 kW						
Power (P2) required by pump:	37 kW						
Mains frequency:	50 Hz						
Rated voltage:	3 x 380-420D/660-725Y V						
Rated current:	68,0-63,0/39,0-36,0 A						
Starting current:	670-670 %						
Cos phi - power factor:	0.87						
Rated speed:	2955 rpm						
Efficiency:	IE3 93,7%						



Company name: Created by: Phone:

		Date:	12/09/2018
Description	Value		
Motor efficiency at full load:	93.7-93.7 %	-	
Motor efficiency at 3/4 load:	93.9-93.9 %		
Motor efficiency at 1/2 load:	93.5-93.5 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	81U15334		
Controls:			
Frequency converter:	Not prepared for VFD		
Others:			
Net weight:	432 kg		
Gross weight:	501 kg		
Shipping volume:	1.32 m³		
Thrust handling device:	Ν		
Approvals:	CE, EAC, ACS, WRAS		
Country of origin:	DK		
Custom tariff no.:	84137075		

