	GRUNDFO		Company name: Created by: Phone:						
			Date:	08/05/2019					
Qty.	Description								
1	CR 32-11-2A-F-A-V-HQQV								
		Notel Product nicture	may differ from actual n	vroduct					
	Product No.: 96122054		e may differ from actual p						
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges.								
	The pump is fitted with a 3-phase, fan-cooled asynchronous motor.								
	Controls: Frequency converter:	NONE							
	<b>Liquid:</b> Pumped liquid: Liquid temperature range:	Water -20 90 °C							
	Selected liquid temperature: Density at selected liquid temper	20 °C rature: 998.2 kg/m <sup>3</sup>							
	Technical:								
	Pump speed on which pump dat Rated flow:	a are based: 2947 r 30 m³/h	pm						
	Rated head:	162.8 m							
	Pump orientation:	Vertical							
	Shaft seal arrangement:	Single							
	Code for shaft seal: Approvals on nameplate:	HQQV CE, EAC							
	Curve tolerance:	ISO9906:2012 3B							
	Matariala								
	Materials: Base:	Cast iron							
		EN 1563 EN-GJS-50 ASTM A536 80-55-0							
	Impeller:	Stainless steel EN 1.4301 AISI 304							
	Bearing:	SIC							
	Support bearing:	Graflon							
	Installation:								
	Maximum ambient temperature:								
	Maximum operating pressure:	30 bar							



Company name: Created by: Phone:

			Date:	08/0	)5/2019	
	Description					
-	Max pressure at stated temp:	30 bar / 90 °C				
·		30 bar / -20 °C				
<b>1</b>	Type of connection:	DIN				
	Size of inlet connection:	DN 65				
	Size of outlet connection:	DN 65				
	Pressure rating for pipe connect					
F	Flange size for motor:	FF300				
E	Electrical data:					
	Notor standard:	IEC				
	Motor type:	180MB				
	E Efficiency class:	IE3				
	Rated power - P2:	22 kW				
	Power (P2) required by pump:	22 kW				
	Mains frequency:	50 Hz				
	Rated voltage:	3 x 380-415D/660	-690Y V			
F	Rated current:	39.5/22.8 A				
18	Starting current:	830 %				
	Cos phi - power factor:	0.90-0.90				
	Rated speed:	2950 rpm				
	Efficiency:	IE3 92,7%				
		•				
	Notor efficiency at full load:	92.7-92.7 %				
	Notor efficiency at 3/4 load:	93.7 %				
	Notor efficiency at 1/2 load:	94.4 %				
	Number of poles:	2				
E	Enclosure class (IEC 34-5):	55 Dust/Jetting				
	nsulation class (IEC 85):	F				
	Notor No:	85U17530				
	Others:	W V 0 70				
	/linimum efficiency index, MEI á					
	Net weight:	220 kg				
	Gross weight:	265 kg				
S	Shipping volume:	0.808 m <sup>3</sup>				
0	Country of origin:	GB				
	Custom tariff no.:	84137075				



## Company name: Created by: Phone:

		н		1	05/20	CD 22 44	1-2, 3*400	V EOU-
Description	Value	[m]				UK 32-11	i-∠, 3°400	v, suhz
General information:	CD							
Product name:	CR 32-11-2A-F-A-V-HQQV	220 -						
Product No:	96122054	200 -						
EAN number:	5700396680989	100						
Technical:		180 -						
Pump speed on which pump data are based:	2947 rpm	160 -						
Rated flow:	30 m³/h	140 -						
Rated head:	162.8 m	120 -						
Head max:	206.9 m							
Stages:	11	100 -						
Impellers:	11	80 -						
Number of reduced-diameter impellers:	2							
Low NPSH:	Ν	60 -						
Pump orientation:	Vertical	40 -						
Shaft seal arrangement:	Single	40 -						
Code for shaft seal:	HQQV	20 -						
Approvals on nameplate:	CE, EAC							
Curve tolerance:	ISO9906:2012 3B	0	5 10	) 15	20 2	5 30	35	Q [m³/h]
Pump version:	А	P [kW]						
Model:	В	25 <b>-</b>						
Materials:		23						P1
Base:	Cast iron	20 -						P2
	EN 1563 EN-GJS-500-7	15 -						P2
	ASTM A536 80-55-06							
Impeller:	Stainless steel	10-						
	EN 1.4301	5 -						
	AISI 304	5-					$\sim$	
Material code:	A	0						
Code for rubber:	V							
Bearing:	SIC							
Support bearing:	Graflon							
Installation:								
Maximum ambient temperature:	60 °C							
Maximum operating pressure:	30 bar							
Max pressure at stated temp:	30 bar / 90 °C							
	30 bar / -20 °C							
Type of connection:	DIN							
Size of inlet connection:	DN 65							
Size of outlet connection:	DN 65							
Pressure rating for pipe connection:	PN 40							
Flange size for motor:	FF300							
Connect code:	F							
Liquid:								
Pumped liquid:	Water							
Liquid temperature range:	-20 90 °C							
Selected liquid temperature:	20 °C							
Density at selected liquid temperature:	998.2 kg/m <sup>3</sup>							
Electrical data:	-							
Motor standard:	IEC							
Motor type:	180MB							
IE Efficiency class:	IE3							
Rated power - P2:	22 kW							
Power (P2) required by pump:	22 kW							
Mains frequency:	50 Hz							
	3 x 380-415D/660-690Y							
Rated voltage:	V							



Company name: Created by: Phone:

Date: 08/05/2019 Description Value 39.5/22.8 A Rated current: Starting current: 830 % Cos phi - power factor: 0.90-0.90 Rated speed: 2950 rpm Efficiency: IE3 92,7% Motor efficiency at full load: 92.7-92.7 % Motor efficiency at 3/4 load: 93.7 % Motor efficiency at 1/2 load: 94.4 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F PTC Motor protec: 85U17530 Motor No: Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 220 kg Gross weight: 265 kg Shipping volume: 0.808 m<sup>3</sup> Country of origin: GB Custom tariff no .: 84137075