	GRUNDF	osX	Company name: Created by: Phone:					
			Date:	08/05/2019				
ty.	Description							
1	CR 64-5-2A-F-A-V-HQQV							
		Note! Product pictur	e may differ from a	ctual product				
	Product No.: 96123559							
	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						
	Liquid:							
	Pumped liquid:	Water						
	Liquid temperature range:	-20 90 °C						
	Selected liquid temperature:	20 °C						
	Density at selected liquid temperature: 998.2 kg/m ³							
	Technical:							
	Pump speed on which pump d Rated flow:	ata are based: 2951 i 64 m ³ /h	rpm					
	Rated head:	101.2 m						
	Pump orientation:	Vertical						
	Shaft seal arrangement:	Single						
	Code for shaft seal:	HQQV						
	Approvals on nameplate:	CE, EAC						
	Curve tolerance:	ISO9906:2012 3B						
	Materials:	Quali						
	Base:	Cast iron EN 1563 EN-GJS-5	00-7					
		ASTM A536 80-55-						
	Impeller:	Stainless steel						
	·	EN 1.4301						
		AISI 304						
	Bearing:	SIC						
	Support bearing:	Graflon						
	Installation:							
	Maximum ambient temperature	± 55 ℃						



Company name: Created by: Phone:

DescriptionMaximum operating pressure:16 barMax pressure at stated temp:16 bar / 90 °C16 bar / -20 °CType of connection:DINSize of inlet connection:DN 100Size of utlet connection:DN 100Pressure rating for pipe connection:PN 16Flange size for motor:FF350Electrical data:Motor standard:Motor standard:IECMotor type:SIEMENSIE Efficiency class:IE3Rated power - P2:30 kWPower (P2) required by pump:30 kWMains frequency:50 HzRated voltage:3 x 380-420D/660-725Y VRated current:660-660 %Cos phi - power factor:0.87Rated speed:2955 rpmEfficiency:IE3 93.3%Motor efficiency at 3/4 load:93.6-93.6 %Motor efficiency at 1/2 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 357 KgMinimum efficiency index, MEI å%-¥:0.70Net weight:318 kgGrost weight:357 kg <tr< th=""><th></th></tr<>	
Max pressure at stated temp:16 bar / 90 °C 16 bar / -20 °CType of connection:DINSize of inlet connection:DN 100Size of outlet connection:DN 100Pressure rating for pipe connection:PN 16Flange size for motor:FF350Electrical data:Motor standard:Motor standard:IECMotor standard:IECMotor standard:IESIE Efficiency class:IE3Rated power - P2:30 kWPower (P2) required by pump:30 kWMains frequency:50 HzRated voltage:3 x 380-420D/660-725Y VRated voltage:3 x 380-420D/660-725Y VRated current:660-660 %Cos ph - power factor:0.87Rated speed:2955 rpmEfficiency:IE3 93,3%Motor efficiency at full load:93.9-93.6 %Motor efficiency at 3/4 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 45):FMotor No:81U15332Others:Minimum efficiency index, MEI ≥:Minimum efficiency index, MEI ≥:0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
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Size of inlet connection:DN 100Size of outlet connection:DN 100Pressure rating for pipe connection:PN 16Flange size for motor:FF350Electrical data:IECMotor standard:IECMotor type:SIEMENSIE Efficiency class:IE3Rated power - P2:30 kWPower (P2) required by pump:30 kWPower (P2) required by pump:30 kWPower (P2) required by pump:30 kWRated oltage:3 x 380-420D/660-725Y VRated outlage:3 x 380-420D/660-725Y VRated current:56,0-51,0/32,0-29,5 AStarting current:660-660 %Cos phi - power factor:0.87Rated speed:2955 rpmEfficiency:IE 3 93,3%Motor efficiency at full load:93.6-93.6 %Motor efficiency at 1/2 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 45):FMotor No:81U15332Others:Minimum efficiency index, MEI $a\% *$: 0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
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Motor standard:IECMotor type:SIEMENSIE Efficiency class:IE3Rated power - P2:30 kWPower (P2) required by pump:30 kWMains frequency:50 HzRated voltage:3 x 380-420D/660-725Y VRated current:56,0-51,0/32,0-29,5 AStarting current:660-660 %Cos phi - power factor:0.87Rated speed:2955 rpmEfficiency:IE3 93,3%Motor efficiency at full load:93.3-93.3 %Motor efficiency at 1/2 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:81U15332Others:Minimum efficiency index, MEI $\hat{a}_{\infty} \neq: 0.70$ Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
Motor standard:IECMotor type:SIEMENSIE Efficiency class:IE3Rated power - P2:30 kWPower (P2) required by pump:30 kWMains frequency:50 HzRated voltage:3 x 380-420D/660-725Y VRated current:56,0-51,0/32,0-29,5 AStarting current:660-660 %Cos phi - power factor:0.87Rated speed:2955 rpmEfficiency:IE3 93,3%Motor efficiency at full load:93.3-93.3 %Motor efficiency at 1/2 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:81U15332Others:Minimum efficiency index, MEI $\hat{a}_{\%}$ ¥:0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
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Rated power - P2: 30 kW Power (P2) required by pump: 30 kW Mains frequency: 50 Hz Rated voltage: $3 \times 380-420D/660-725Y \text{ V}$ Rated current: $56,0-51,0/32,0-29,5 \text{ A}$ Starting current: $660-660 \%$ Cos phi - power factor: 0.87 Rated speed: 2955 rpm Efficiency:IE3 93,3%Motor efficiency at full load: $93.3-93.3 \%$ Motor efficiency at $3/4$ load: $93.6-93.6 \%$ Motor efficiency at $1/2$ load: $93.4-93.4 \%$ Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI $\hat{a}\%$ *:0.70Net weight:357 kgShipping volume:0.805 m³Country of origin:GB $6B$	
Power (P2) required by pump: 30 kW Mains frequency: 50 Hz Rated voltage: $3 \times 380-420\text{D}/660-725\text{Y}$ VRated current: $56,0-51,0/32,0-29,5$ AStarting current: $660-660$ %Cos phi - power factor: 0.87 Rated speed: 2955 rpmEfficiency:IE3 93,3%Motor efficiency at full load: $93.3-93.3$ %Motor efficiency at $3/4$ load: $93.6-93.6$ %Motor efficiency at $1/2$ load: $93.4-93.4$ %Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/JettingInsulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI ≥:0.70Net weight: 375 kgShipping volume: 0.805 m³Country of origin: GB	
Mains frequency:50 HzRated voltage: $3 \times 380-420D/660-725Y V$ Rated current: $56,0-51,0/32,0-29,5 A$ Starting current: $660-660 \%$ Cos phi - power factor: 0.87 Rated speed: $2955 rpm$ Efficiency:IE3 93,3%Motor efficiency at full load: $93.3-93.3 \%$ Motor efficiency at $3/4$ load: $93.6-93.6 \%$ Motor efficiency at $1/2$ load: $93.4-93.4 \%$ Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/JettingInsulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI $\hat{a}\%$ ¥:0.70Net weight: $357 kg$ $357 kg$ Shipping volume: $0.805 m^3$ Country of origin:GB	
Rated voltage: $3 \times 380-420D/660-725Y V$ Rated current: $56,0-51,0/32,0-29,5 A$ Starting current: $660-660 \%$ Cos phi - power factor: 0.87 Rated speed: $2955 rpm$ Efficiency:IE3 93,3%Motor efficiency at full load: $93.3-93.3 \%$ Motor efficiency at $3/4$ load: $93.6-93.6 \%$ Motor efficiency at $1/2$ load: $93.4-93.4 \%$ Number of poles: 2 Enclosure class (IEC 34-5): $55 Dust/Jetting$ Insulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI $\hat{a}\%$ ¥: 0.70 Net weight: $318 kg$ Gross weight: $357 kg$ Shipping volume: $0.805 m^3$ Country of origin: GB	
Rated current: $56,0-51,0/32,0-29,5 \text{ A}$ Starting current: $660-660 \%$ Cos phi - power factor: 0.87 Rated speed: 2955 rpm Efficiency:IE3 93,3%Motor efficiency at full load: $93.3-93.3 \%$ Motor efficiency at $3/4 \text{ load:}$ $93.6-93.6 \%$ Motor efficiency at $1/2 \text{ load:}$ $93.4-93.4 \%$ Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI $\hat{a}\%$ ¥: 0.70 Net weight: 318 kg Gross weight: 357 kg Shipping volume: 0.805 m^3 Country of origin: GB	
Starting current: $660-660 \%$ Cos phi - power factor: 0.87 Rated speed: 2955 rpm Efficiency:IE3 93,3%Motor efficiency at full load: $93.3-93.3 \%$ Motor efficiency at $3/4$ load: $93.6-93.6 \%$ Motor efficiency at $1/2$ load: $93.4-93.4 \%$ Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI ≥:0.70Net weight:318 kgGross weight:Shipping volume: 0.805 m^3 Country of origin:GB	
Cos phi - power factor: 0.87 Rated speed: 2955 rpmEfficiency:IE3 93,3%Motor efficiency at full load: $93.3-93.3$ %Motor efficiency at $3/4$ load: $93.6-93.6$ %Motor efficiency at $1/2$ load: $93.4-93.4$ %Number of poles: 2 Enclosure class (IEC $34-5$): 55 Dust/JettingInsulation class (IEC 35):FMotor No: $81U15332$ Others: 318 kgGross weight: 357 kgShipping volume: 0.805 m³Country of origin: GB	
Rated speed:2955 rpmEfficiency:IE3 93,3%Motor efficiency at full load:93.3-93.3 %Motor efficiency at 3/4 load:93.6-93.6 %Motor efficiency at 1/2 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:81U15332Others:Minimum efficiency index, MEI \hat{a} %*:0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
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Motor efficiency at full load: $93.3-93.3 \%$ Motor efficiency at 3/4 load: $93.6-93.6 \%$ Motor efficiency at 1/2 load: $93.4-93.4 \%$ Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI ≥:0.70Net weight:318 kgGross weight: $357 kg$ Shipping volume: $0.805 m^3$ Country of origin:GB	
Motor efficiency at $3/4$ load: $93.6-93.6$ %Motor efficiency at $1/2$ load: $93.4-93.4$ %Number of poles:2Enclosure class (IEC $34-5$): 55 Dust/JettingInsulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI ≥:0.70Net weight:318 kgGross weight: 357 kgShipping volume: 0.805 m³Country of origin:GB	
Motor efficiency at 1/2 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:81U15332Others:Minimum efficiency index, MEI ≥:0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
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Gross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
Shipping volume:0.805 m³Country of origin:GB	
Country of origin: GB	



Company name: Created by: Phone:

		н		CR 64-5-2, 3*400 V, 50Hz	
Description	Value	[m]			,
General information:		140 -			
Product name:	CR 64-5-2A-F-A-V-HQQV				
Product No:	96123559	130 -			
EAN number:	5700396697697	120 -			
Technical:	5700590097097	110 -			
Pump speed on which pump data are		100 -			
based:	2951 rpm	90 -			
Rated flow:	64 m³/h				
Rated head:	101.2 m	80 -			
Head max:	129.2 m	70 -			
Stages:	5	60 -			
Impellers:	5				
Number of reduced-diameter impellers:	2	50 -			
Low NPSH:	N	40 -			
Pump orientation:	Vertical	30 -			
Shaft seal arrangement:	Single	20-			
Code for shaft seal:	HQQV				
Approvals on nameplate:	CE, EAC	10-			
Curve tolerance:	ISO9906:2012 3B	0	20 30 40	50 60 70	Q [m³/h]
Pump version:	A	P	20 30 40	01 00 00	ر [m³/n]
Model:	 B	[kW]			<u>P1</u>
Model: Materials:	U	25 -			P2
	Castiron				
Base:	Cast iron EN 1563 EN-GJS-500-7	20 -			
	EN 1903 EN-GJS-900-7	15			
	ASTM A536 80-55-06				
Impeller:	Stainless steel	10 -			
	EN 1.4301				
	AISI 304	5 -			
Material code:	A A				
Code for rubber:	V	0			
Bearing:	SIC				
Support bearing:	Graflon				
Installation:	Ordilon				
Maximum ambient temperature:	55 °C				
•	16 bar				
Maximum operating pressure: Max pressure at stated temp:	16 bar / 90 °C				
max pressure at stated temp.					
Type of connection:	16 bar / -20 °C DIN				
Size of inlet connection:	DIN DN 100				
Size of outlet connection:	DN 100				
Pressure rating for pipe connection:	PN 16				
Flange size for motor:	FF350				
Connect code:	FF350				
Liquid:	I				
•	Wator				
Pumped liquid: Liquid temperature range:	Water				
Selected liquid temperature:	-20 90 °C 20 °C				
Density at selected liquid temperature:	998.2 kg/m ³				
Electrical data:					
Motor standard:	IEC				
Motor type:	SIEMENS				
IE Efficiency class:	IE3				
Rated power - P2:	30 kW				
Power (P2) required by pump:	30 kW				
Mains frequency:	50 Hz				
	3 x 380-420D/660-725Y				



Company name: Created by: Phone:

		Date:	08/05/2019
Description	Value		
Rated current:	56,0-51,0/32,0-29,5 A	-	
Starting current:	660-660 %		
Cos phi - power factor:	0.87		
Rated speed:	2955 rpm		
Efficiency:	IE3 93,3%		
Motor efficiency at full load:	93.3-93.3 %		
Motor efficiency at 3/4 load:	93.6-93.6 %		
Motor efficiency at 1/2 load:	93.4-93.4 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	81U15332		
Controls:			
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	318 kg		
Gross weight:	357 kg		
Shipping volume:	0.805 m ³		
Country of origin:	GB		
Custom tariff no.:	84137075		