	GRUNDF	osX	Company n Created by Phone:				
			Date:	08/05/2019			
ty.	Description						
1	CR 64-5-1A-F-A-V-HQQV						
	_	Note! Product pictur	e may differ from a	ctual product			
	Product No.: 96123560						
	base are in cast iron – all other	wetted parts are in st	ainless steel. A	me the level (inline). The pump head and cartridge shaft seal ensures high reliability, ria a rigid split coupling. Pipe connection is vi			
	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	ata are based: 2951	mm				
	Rated flow:	64 m ³ /h	P				
	Rated head:	108.5 m					
	Pump orientation:	Vertical					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	HQQV					
	Approvals on nameplate: Curve tolerance:	CE, EAC ISO9906:2012 3B					
	Materials:						
	Base:	Cast iron					
		EN 1563 EN-GJS-5					
		ASTM A536 80-55-	06				
	Impeller:	Stainless steel					
		EN 1.4301					
	Bearing:	AISI 304 SIC					
	Support bearing:	Graflon					
	Support bearing.	Granoff					
	Installation:						
	Maximum ambient temperature	e: 55 °C					



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	
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 type:SIEMENSIE Efficiency class:IE3Rated power - P2:30 kWPower (P2) required by pump: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 at full load:93.3-93.3 %Motor efficiency at J/2 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 34-5):FMotor No:81U15332Others:0.70Minimum efficiency index, MEI ≥:0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
Type 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 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 at Jul load:93.3-93.3 %Motor efficiency at Jul load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 34-5):55 Dust/JettingInsulation class (IEC 34-5):FMotor No:81U15332Others:Minimum efficiency index, MEI $\frac{3}{7}$ kgSinpping volume:0.805 m³Country of origin:GB	
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 35):FMotor No:81U15332Others:Minimum efficiency index, MEI $a\% *$: 0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
Size of outlet 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: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:93.6-93.6 %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:318 kgMinimum efficiency index, MEI $a\% *$:0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
Pressure 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: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 34-5):FMotor No:81U15332Others:11U15332Minimum efficiency index, MEI 剥:0.70Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
Flange size for motor:FF350Electrical data:IECMotor standard:IECMotor standard: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:93.6-93.6 %Motor efficiency at 1/2 load:93.4-93.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 34-5):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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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	
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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:Minimum efficiency index, MEI ≥: 0.70 Net weight: 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	
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:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No: $81U15332$ Others:Minimum efficiency index, MEI $\hat{a}\%$ ¥:0.70Net weight:318 kgGross weight: 357 kgShipping volume: 0.805 m³Country of origin:GB	
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	
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	
Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 81U15332 Others: Minimum efficiency index, MEI ≥: Minimum efficiency index, MEI ≥: 0.70 Net weight: 318 kg Gross weight: 357 kg Shipping volume: 0.805 m³ Country of origin: GB	
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Net weight:318 kgGross weight:357 kgShipping volume:0.805 m³Country of origin:GB	
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:

		Date:	08/05/2019		
Description Value		H [m]		CR 64-5-1, 3*400 V, 50Hz	
General information:					
Product name:	CR 64-5-1A-F-A-V-HQQV				
Product No:	96123560	140 -			
EAN number:	5700396697703				
Technical:	0.000000.100	120 -			
Pump speed on which pump data are based:	2951 rpm				
Rated flow:	64 m³/h	100 -			- 100
Rated head:	108.5 m				
Head max:	139.2 m	80 -			- 80
Stages:	5				
-	5	60 -			- 60
Impellers:					00
Number of reduced-diameter impellers:	1				
Low NPSH:	N	40 -			- 40
Pump orientation:	Vertical				
Shaft seal arrangement:	Single	20 -	·		- 20
Code for shaft seal:	HQQV				
Approvals on nameplate:	CE, EAC	۰/			
Curve tolerance:	ISO9906:2012 3B	0 10) 20 30 40	50 60 70 Q [m³/	
Pump version:	Α	P [kW]			_ N
Model:	В				'
Materials:				P1	
Base:	Cast iron	25 -		P2	- 25
	EN 1563 EN-GJS-500-7	20 -			- 20
	ASTM A536 80-55-06	15 -			- 15
Impeller:	Stainless steel	10 -			10
	EN 1.4301	10-			- 10
	AISI 304	5 -			- 5
Material code:	A				
Code for rubber:	V	0			 0
	-				
Bearing:	SIC				
Support bearing:	Graflon				
Installation:					
Maximum ambient temperature:	55 °C				
Maximum operating pressure:	16 bar				
Max pressure at stated temp:	16 bar / 90 °C				
	16 bar / -20 °C				
Type of connection:	DIN				
Size of inlet connection:	DN 100				
Size of outlet connection:	DN 100				
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				
Selected liquid temperature:	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				
Rated voltage:	5 A 000 TZUD/000-1 ZJ I				



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		