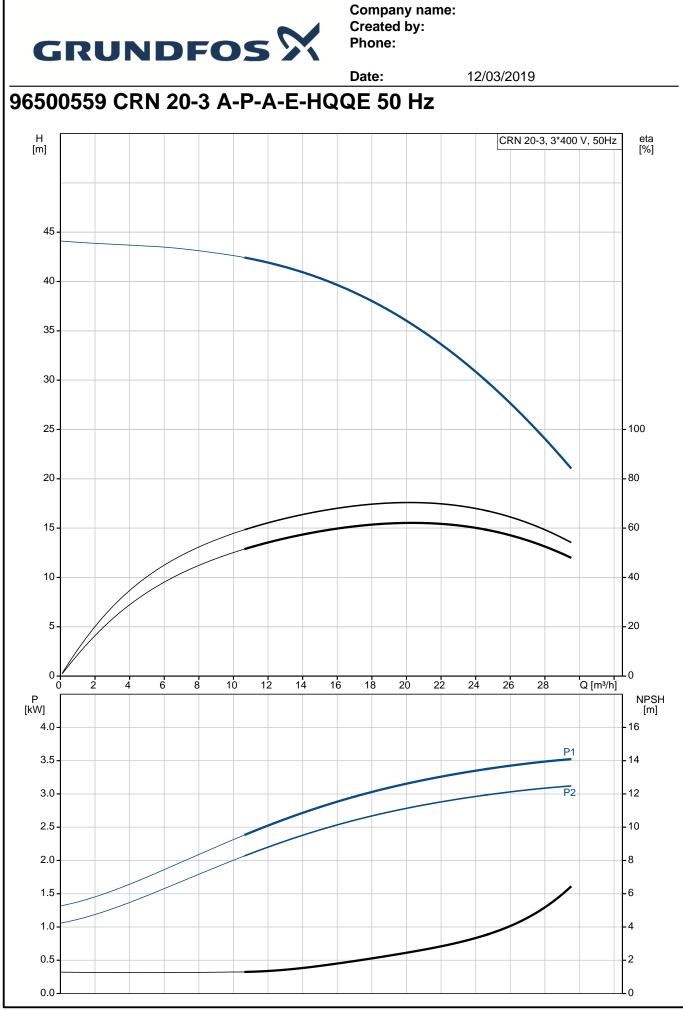
	GRUNDF	osX	Company name: Created by: Phone:		
			Date:	12/03/2019	
ty.	Description				
1	CRN 20-3 A-P-A-E-HQQE				
	Product No.: 96500559 Vertical, multistage centrifuga contact with the liquid are in l	Note! Product picture may differ from actual product ugal pump with inlet and outlet ports on same the level (inline). Pump materia in high-grade stainless steel. A cartridge shaft seal ensures high reliability, sa			
	I have all the second s		el. A cartridge shaft se	eal ensures high reliability, safe	
	handling, and easy access an (Victaulic®) couplings. The pump is fitted with a 3-ph	nd service. Power trans	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access an (Victaulic®) couplings. The pump is fitted with a 3-ph	nd service. Power trans	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access an (Victaulic®) couplings. The pump is fitted with a 3-ph Controls:	nd service. Power trans	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access an (Victaulic®) couplings. The pump is fitted with a 3-ph	nd service. Power trans	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter:	nd service. Power trans	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid:	nd service. Power trans nase, fan-cooled asynch NONE	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid:	nd service. Power trans nase, fan-cooled asynch NONE Water	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range:	nd service. Power trans nase, fan-cooled asynch NONE Water -20 120 °C	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access an (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op	nd service. Power trans nase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range:	nd service. Power trans nase, fan-cooled asynch NONE Water -20 120 °C	mission is via a rigid s	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access an (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op	nd service. Power trans nase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump	nd service. Power trans nase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
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	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump Rated flow: Rated head:	nd service. Power trans nase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917 21 m ³ /h 34.6 m	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump Rated flow: Rated head: Pump orientation:	nd service. Power trans hase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917 21 m ³ /h 34.6 m Vertical Single	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal:	nd service. Power trans hase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917 21 m ³ /h 34.6 m Vertical Single HQQE	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump Rated flow: Rated head: Pump orientation: Shaft seal arrangement:	nd service. Power trans hase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917 21 m ³ /h 34.6 m Vertical Single	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
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	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Materials: Base:	nd service. Power trans hase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917 21 m ³ /h 34.6 m Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B Stainless steel EN 1.4408 AISI 316	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Materials:	nd service. Power trans hase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917 21 m ³ /h 34.6 m Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B Stainless steel EN 1.4408	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Materials: Base:	nd service. Power trans hase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917 21 m ³ /h 34.6 m Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B Stainless steel EN 1.4408 AISI 316 Stainless steel EN 1.4401	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	
	handling, and easy access ar (Victaulic®) couplings. The pump is fitted with a 3-ph Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during op Density: Technical: Pump speed on which pump Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance: Materials: Base:	nd service. Power trans hase, fan-cooled asynch NONE Water -20 120 °C eration: 20 °C 998.2 kg/m ³ data are based: 2917 21 m ³ /h 34.6 m Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B Stainless steel EN 1.4408 AISI 316 Stainless steel	mission is via a rigid s∣ nronous motor.	eal ensures high reliability, safe plit coupling. Pipe connection is via PJE	



Company name: Created by: Phone:

Installation: Maximum ambient temperature:60 °CMaximum operating pressure: 25 bar / 20 °CMax pressure at stated temp: 25 bar / 20 °CType of connection: 2 inchSize of inlet connection: 2 inchDN 50 2 inchSize of outlet connection: 2 inchPressure rating for pipe connection: Pressure rating for pipe connection: 12 inchPressure rating for pipe connection: 2 inchMate pipe connection: 2 inchPressure rating for pipe connection: 2 inchPressure rating for pipe connection: 2 inchPressure rating for pipe connection: 2 inchPower (P2) required by pump: 4 kWAtted power - P2: 4 kWPower (P2) required by pump: 4 kWMated power (P2): 7.9 AStarting current: 5.0 HzRated speed: 2 290-2940 rpmEfficiency: Efficiency at 1/2 load: 88.6 % Motor efficiency at 1/2 load: 88.6 %Motor efficiency at 1/2 load: 88.6 %Motor efficiency at 1/2 load: 85.2 KNumber of poles: 2 2 2 2<				Date:	12/03/2019
Maximum ambient temperature: $60 ^\circ C$ Maximum operating pressure: $25 bar / 120 ^\circ C$ Max pressure at stated temp:: $25 bar / -20 ^\circ C$ Type of connection:PJESize of inlet connection:DN 502 inch2 inchSize of outlet connection:DN 502 inch2 inchPressure rating for pipe connection:PN 50Flange size for motor:FT130Electrical data:Motor standard:IECMotor standard:IECMotor standard:IE3Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-415D VRated voltage:3 x 380-415D VRated voltage:2920-2940 rpmEfficiency:IE3 88,1%Motor efficiency at 1/2 load:88.6 %Motor efficiency at 1/2 load:85.2 %Number of poles:22Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FCohers:Minimum efficiency index, MEI 剥:0.70Net weight:63 kgGross weight:67 kgShiping volume:0.13 m³Danish VVS No.:385915030County of origin:GB		Description			
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Motor standard:IECMotor type:112MCIE Efficiency class:IE3Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-415D VRated current:7.9 AStarting current:1000-1110 %Cos phi - power factor:0.87-0.87Rated speed:2920-2940 rpmEfficiency:IE3 88,1%Motor efficiency at full load:88.1 %Motor efficiency at 1/2 load:85.2 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FOthers:Minimum efficiency index, MEI $\hat{a}_{w} \neq : 0.70$ Net weight:63 kgGross weight:67 kgShipping volume:0.13 m³Danish VVS No.:385915030Country of origin:GB		Electrical data:			
Motor type:112MCIE Efficiency class:IE3Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-415D VRated current:7.9 AStarting current:1000-1110 %Cos phi - power factor:0.87-0.87Rated speed:2920-2940 rpmEfficiency:IE3 88,1%Motor efficiency at full load:88.1 %Motor efficiency at 1/2 load:85.2 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 45):FOthers:Minimum efficiency index, MEI ≥:0.7063 kgGross weight:63 kgGross weight:67 kgShipping volume:0.13 m³Danish VVS No.:385915030Country of origin:GB			IEC		
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Rated power - P2: 4 kW Power (P2) required by pump: 4 kW Mains frequency: 50 Hz Rated voltage: $3 \times 380-415D \text{ V}$ Rated current: 7.9 A Starting current: $1000-1110 \%$ Cos phi - power factor: $0.87-0.87$ Rated speed: $2920-2940 \text{ rpm}$ Efficiency:IE3 88,1%Motor efficiency at full load: 88.1% Motor efficiency at $3/4 \text{ load}$: 88.6% Motor efficiency at $1/2 \text{ load}$: 85.2% Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85):FOthers:Minimum efficiency index, MEI $a\%$ ¥: 0.70 Net weight: 63 kg Gross weight: 67 kg Shipping volume: 0.13 m^3 Danish VVS No.: 385915030 Country of origin: GB					
Power (P2) required by pump: 4 kW Mains frequency: 50 Hz Rated voltage: $3 \times 380-415D \text{ V}$ Rated current: 7.9 A Starting current: $1000-1110 \%$ Cos phi - power factor: $0.87-0.87$ Rated speed: $2920-2940 \text{ rpm}$ Efficiency:IE3 88,1%Motor efficiency at full load: 88.1% Motor efficiency at $3/4 \text{ load:}$ 88.6% Motor efficiency at $1/2 \text{ load:}$ 85.2% Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85):FOthers:Minimum efficiency index, MEI $\hat{a}\%$:Othersi: 63 kg Gross weight: 63 kg Shipping volume: 0.13 m^3 Danish VVS No.: 385915030 Country of origin: GB			-		
Mains frequency:50 HzRated voltage: $3 \times 380-415D V$ Rated current: $7.9 A$ Starting current: $1000-1110 \%$ Cos phi - power factor: $0.87-0.87$ Rated speed: $2920-2940 rpm$ Efficiency:IE3 88,1%Motor efficiency at full load: 88.1% Motor efficiency at $3/4$ load: 88.6% Motor efficiency at $1/2$ load: 85.2% Number of poles: 2 Enclosure class (IEC 34-5): $55 Dust/Jetting$ Insulation class (IEC 85):FOthers:Minimum efficiency index, MEI ≥:0.70Net weight:63 kgGross weight: $67 kg$ Shipping volume: $0.13 m^3$ Danish VVS No.: 385915030 Country of origin:GB					
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Gross weight:67 kgShipping volume:0.13 m³Danish VVS No.:385915030Country of origin:GB		Minimum efficiency index, MEI a	à‰¥: 0.70		
Shipping volume:0.13 m³Danish VVS No.:385915030Country of origin:GB		Net weight:	63 kg		
Danish VVS No.:385915030Country of origin:GB		Gross weight:	67 kg		
Country of origin: GB		Shipping volume:	0.13 m³		
		Danish VVS No.:	385915030		
Custom tariff no.: 84137075		Country of origin:			
		Custom tariff no .:	84137075		
	I				





Company name: Created by: Phone:

		Date:	12/03/2019
Description	Value	H [m]	CRN 20-3, 3*400 V, 50Hz
General information:			
Product name:	CRN 20-3 A-P-A-E-HQQE	45 -	
Product No:	96500559	40	
EAN number:	5700396204246	40 -	
Price:	2.389,00 GBP	35 -	
Technical:			
Pump speed on which pump data are based:	2917 rpm	30 -	
Rated flow:	21 m³/h	25 -	100
Rated head:	34.6 m	20 -	
Head max:	43.9 m	20 -	- 80
Stages:	3	15 -	60
Impellers:	3		
Number of reduced-diameter impellers:	0	10-	-40
Low NPSH:	N	— //	
Pump orientation:	Vertical	5-	- 20
Shaft seal arrangement:	Single	—	
Code for shaft seal:	HQQE	0 ./	5 10 15 20 25 Q [m³/h]
	CE, EAC,ACS	P	
Approvals on nameplate: Curve tolerance:	ISO9906:2012 3B	[kW]	
		3.5 -	P1 - 14
Pump version:	A	3.0 -	P2 12
Model:	A	2.5 -	-10
Materials:	Otoinlass sta	2.0 -	-8
Base:	Stainless steel	1.5	
	EN 1.4408		
	AISI 316	1.0 -	-4
Impeller:	Stainless steel	0.5 -	-2
	EN 1.4401	0.0	
	AISI 316		4
Material code:	A		220
Code for rubber:	E		+
Bearing:	SIC		
Installation:		372	
Maximum ambient temperature:	60 °C		
Maximum operating pressure:	25 bar	160	
Max pressure at stated temp:	25 bar / 120 °C	<u>G 1/2</u>	G 1/2
	25 bar / -20 °C		
Type of connection:	PJE	463	
Size of inlet connection:	DN 50	G 1/2	
	2 inch		
Size of outlet connection:	DN 50		
	2 inch	' [L	130 <u>215</u> 200 248
Pressure rating for pipe connection:	PN 50		200 248
Flange size for motor:	FT130		
Connect code:	P		Y
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-20 120 °C	Ŋ ^{+™} ♥ Ŋ ^{+™}	
Liquid temperature during operation:	20 °C		
Density:	998.2 kg/m ³		
Electrical data:	550.2 Ng/III	TO AMPLIFIER RELAY	
Motor standard:	IEC		5.9
Motor type:	112MC		
IE Efficiency class:	IE3	□ □	
Rated power - P2:	4 kW	↓ ↓	
Power (P2) required by pump:	4 kW		
Mains frequency:	50 Hz	TO AMPLIFIER RELAY L1	
Rated voltage:	3 x 380-415D V		

Printed from Grundfos Product Centre [2019.01.000]



Company name: Created by: Phone:

		Date:	12/03/2019	
Description	Value			
Rated current:	7.9 A			
Starting current:	1000-1110 %			
Cos phi - power factor:	0.87-0.87			
Rated speed:	2920-2940 rpm			
Efficiency:	IE3 88,1%			
Motor efficiency at full load:	88.1 %			
Motor efficiency at 3/4 load:	88.6 %			
Motor efficiency at 1/2 load:	85.2 %			
Number of poles:	2			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protec:	PTC			
Motor No:	85U15413			
Controls:				
Frequency converter:	NONE			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	63 kg			
Gross weight:	67 kg			
Shipping volume:	0.13 m ³			
Danish VVS No.:	385915030			
Country of origin:	GB			
Custom tariff no.:	84137075			