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Qty. | Description
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08/10/2020
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• Stationary seat material: silicon carbide (SiC) This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Date:

Secondary seal material: FKM (fluorocarbon rubber)

FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The pump has a stainless steel base mounted on a separate base plate. This base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS.

## Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

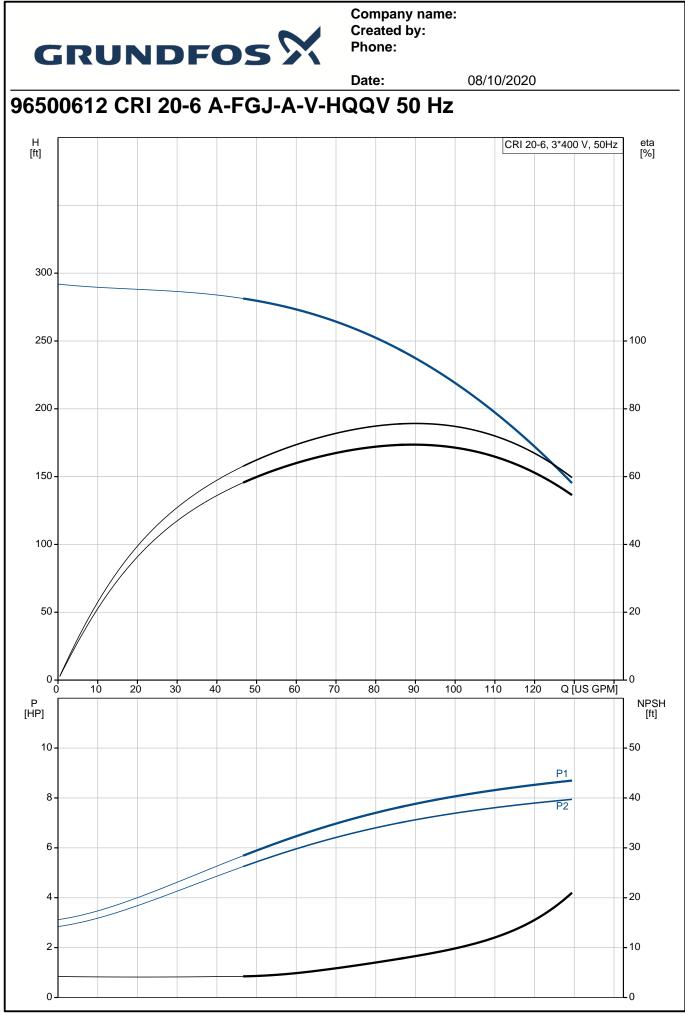
The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

## **Technical data**

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 194 °F 68 °F 62.29 lb/ft³
Technical: Pump speed on which pump dat Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance:	a are based: 2919 rpm 92.5 US GPM 231 ft Vertical Single HQQV CE, EAC ISO9906:2012 3B
Materials: Base:	Stainless steel EN 1.4408 AISI 316



ax pressure at stated temp: /pe of connection: ze of inlet connection:	232.06 psi 232 psi / 194 °F 232 psi / -4 °F DIN / ANSI / JIS DN 50			
earing: stallation: aximum ambient temperature: aximum operating pressure: ax pressure at stated temp: ype of connection: ze of inlet connection: ze of outlet connection:	EN 1.4301 AISI 304 SIC 140 °F 232.06 psi 232 psi / 194 °F 232 psi / -4 °F DIN / ANSI / JIS DN 50			
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ze of inlet connection: ze of outlet connection:	DN 50			
ze of outlet connection:				
essure rating for connection:	DN 50			
	PN 25			
ange rating inlet:	300 lb			
ange size for motor:	FF265			
	150			
		0Y V		
otor efficiency at full load:	90.1-90.4 %			
	90.8 %			
	•			
( )				
otor No:	85U17522			
ontrols:				
	NONE			
thers <sup>.</sup>				
	‰¥: 0.70			
	10.1 ft <sup>3</sup>			
	GB			
ustom tariff no.:	84137075			
	ains frequency: ited voltage: ited current: arting current: by phi - power factor: ited speed: iciency: btor efficiency at full load: btor efficiency at 3/4 load: btor efficiency at 3/4 load: btor efficiency at 1/2 load: imber of poles: iclosure class (IEC 34-5): sulation class (IEC 85): btor No: btor No: btor No: btor No: btor efficiency index, MEI å <sup>c</sup> at weight: oss weight: ipping volume: buntry of origin:	botor standard:IECbotor type:132SBEfficiency class:IE3atted power - P2:10 HPwer (P2) required by pump:10 HPains frequency:50 Hzatted voltage: $3 \times 380-415D/660-69$ atted voltage: $3 \times 380-415D/660-69$ atted current: $14,4-14,0/8,30-8,10$ /arting current: $780-910$ %as phi - power factor: $0.88-0.82$ by phi - power factor: $0.88-0.82$ botor efficiency at full load: $90.1-90.4$ %botor efficiency at $3/4$ load: $90.8$ %botor efficiency at $1/2$ load: $90.8$ %botor efficiency converter:NONEbotor No: $85U17522$ botor No: $85U17522$ botor stanue efficiency index, MEI ≥: $0.70$ botor efficiency index $0.1$ ft³botor efficiency index: $0.1$ ft³ <td>botor standard:IECbotor type:132SBEfficiency class:IE3ted power - P2:10 HPwer (P2) required by pump:10 HPains frequency:50 Hzted voltage:3 x 380-415D/660-690Y Vted current:14,4-14,0/8,30-8,10 Aarting current:780-910 %sp phi - power factor:0.88-0.82ted speed:2910-2920 rpmficiency:IE3 90,1%botor efficiency at full load:90.1-90.4 %botor efficiency at 3/4 load:90.8 %botor efficiency at 3/4 load:90.8 %botor efficiency at 1/2 load:90.8 %botor No:85U17522botor No:85U17522botor No:85U17522botor Sile2closure class (IEC 34-5):55 Dust/Jettingsulation class (IEC 85):Fequency converter:NONEhers:</td> <td>botor standard:IECbotor type:132SBEfficiency class:IE3ted power - P2:10 HPwer (P2) required by pump:10 HPains frequency:50 Hzted voltage:3 x 380-415D/660-690Y Vted current:14,4-14,0/8,30-8,10 Aarting current:780-910 %sp phi - power factor:0.88-0.82ted speed:2910-2920 rpmticed speed:90.1-90.4 %botor efficiency at 1/2 load:90.8 %ottor efficiency at 1/2 load:90.8 %umber of poles:2closure class (IEC 34-5):55 Dust/Jettingsulation class (IEC 35):Fbotor No:85U17522botor sticency:128 lboss weight:267 lbinmum efficiency index, MEI 剥:0.70t weight:267 lbipping volume:10.1 ft³uputry of origin:GB</td>	botor standard:IECbotor type:132SBEfficiency class:IE3ted power - P2:10 HPwer (P2) required by pump:10 HPains frequency:50 Hzted voltage:3 x 380-415D/660-690Y Vted current:14,4-14,0/8,30-8,10 Aarting current:780-910 %sp phi - power factor:0.88-0.82ted speed:2910-2920 rpmficiency:IE3 90,1%botor efficiency at full load:90.1-90.4 %botor efficiency at 3/4 load:90.8 %botor efficiency at 3/4 load:90.8 %botor efficiency at 1/2 load:90.8 %botor No:85U17522botor No:85U17522botor No:85U17522botor Sile2closure class (IEC 34-5):55 Dust/Jettingsulation class (IEC 85):Fequency converter:NONEhers:	botor standard:IECbotor type:132SBEfficiency class:IE3ted power - P2:10 HPwer (P2) required by pump:10 HPains frequency:50 Hzted voltage:3 x 380-415D/660-690Y Vted current:14,4-14,0/8,30-8,10 Aarting current:780-910 %sp phi - power factor:0.88-0.82ted speed:2910-2920 rpmticed speed:90.1-90.4 %botor efficiency at 1/2 load:90.8 %ottor efficiency at 1/2 load:90.8 %umber of poles:2closure class (IEC 34-5):55 Dust/Jettingsulation class (IEC 35):Fbotor No:85U17522botor sticency:128 lboss weight:267 lbinmum efficiency index, MEI 剥:0.70t weight:267 lbipping volume:10.1 ft³uputry of origin:GB



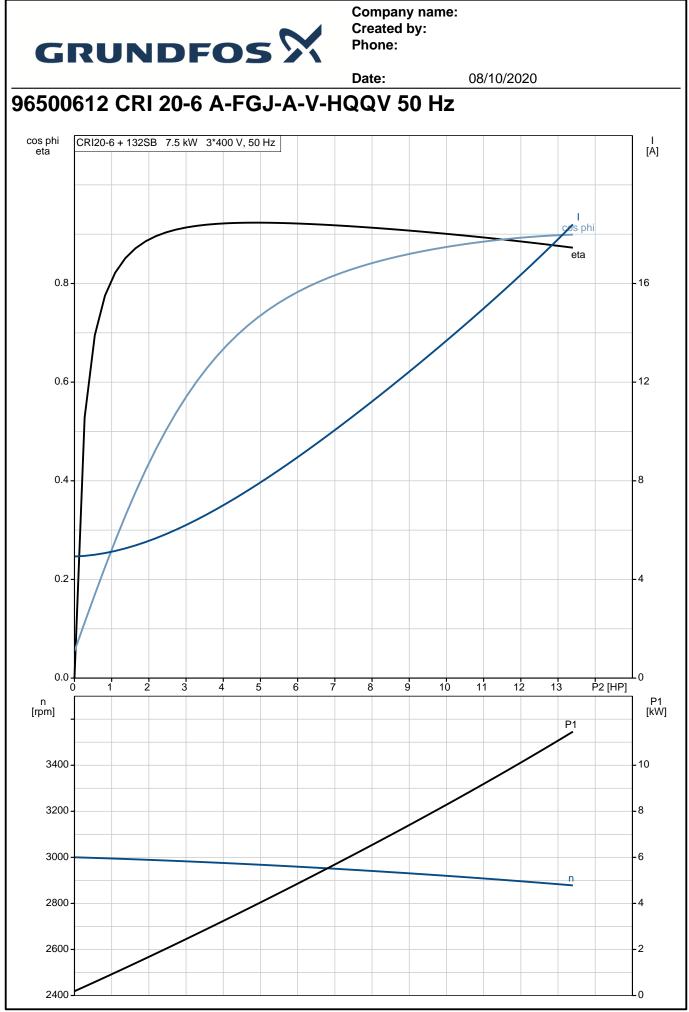


		Date:	08/10/2020
Description	Value	H [ft]	CRI 20-6, 3*400 V, 50Hz [%]
General information:			
	CRI 20-6	-	
Product name:	A-FGJ-A-V-HQQV		
Product No:	96500612	300 -	
EAN number:	5700396205304		
Price:	GBP 3401	250 -	- 100
Technical:		230-	
Pump speed on which pump data are based:	2919 rpm	200 -	- 80
Rated flow:	92.5 US GPM	200 -	
Rated head:	231 ft		
		150 -	60
Maximum head:	290 ft	- //	
Stages:	6	100-	- 40
Impellers:	6	//	
Number of reduced-diameter impellers:	0		
Low NPSH:	Ν	50 -	- 20
Pump orientation:	Vertical		
Shaft seal arrangement:	Single	o /	
Code for shaft seal:	HQQV	0 20	40 60 80 100 Q [US GPM]
Approvals on nameplate:	CE, EAC	P [HP]	NPS [ft
Curve tolerance:	ISO9906:2012 3B	10-	- 50
Pump version:	Α		P1
Model:	A	8 -	P2 - 40
Materials:		6 -	-30
Base:	Stainless steel		
Base:	EN 1.4408	4-	20
Base:	AISI 316		
Impeller:	Stainless steel	2-	10
Impeller:	EN 1.4301		
	AISI 304	0_L	
Impeller: Material code:			
	A	6.26	
Code for rubber:	V		
Bearing:	SIC		
Installation:	1.10.05	14.90	
Maximum ambient temperature:	140 °F		
Maximum operating pressure:	232.06 psi		12
Max pressure at stated temp:	232 psi / 194 °F		<u></u>
Max pressure at stated temp:	232 psi / -4 °F	88 1 X G 1/2	<u>8 x 0.71 x 0.86</u>
Type of connection:	DIN / ANSI / JIS	₹ <u>1XG1/2</u>	
Size of inlet connection:	DN 50		
Size of outlet connection:	DN 50		
Pressure rating for connection:	PN 25	5.12	<u>2.56</u> <u>4.74</u>
Flange rating inlet:	300 lb	11.80	<u>8.46</u> 9.76
Flange size for motor:	FF265		
Connect code:	FGJ		
Liquid:			Y
Pumped liquid:	Water		'
Liquid temperature range:	-4 194 °F		
Selected liquid temperature:	68 °F	-	" <b>F</b>
Density:	62.29 lb/ft <sup>3</sup>		
Electrical data:	02.20 10/11-		
		TO ANYLFIER	
Motor standard:	IEC	L1   L2   L3	
Motor type:	132SB		
E Efficiency class:	IE3		T Second S
Rated power - P2:	10 HP	_	LLV PRO
Power (P2) required by pump:	10 HP		
Mains frequency:	50 Hz		
	3 x 380-415D/660-690Y	TO AMPLIFIER RELAY	

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		Date:	08/10/2020	
Description	Value			
Rated current:	14,4-14,0/8,30-8,10 A	_		
Starting current:	780-910 %			
Cos phi - power factor:	0.88-0.82			
Rated speed:	2910-2920 rpm			
Efficiency:	IE3 90,1%			
Motor efficiency at full load:	90.1-90.4 %			
Motor efficiency at 3/4 load:	90.8 %			
Motor efficiency at 1/2 load:	90.8 %			
Number of poles:	2			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protec:	PTC			
Motor No:	85U17522			
Controls:				
Frequency converter:	NONE			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	218 lb			
Gross weight:	267 lb			
Shipping volume:	10.1 ft <sup>3</sup>			
Country of origin:	GB			
Custom tariff no .:	84137075			



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