

17/02/2019

Qty. | Description

1

CRN 32-5-2 A-F-A-E-HQQE



Product No.: 96122358

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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.

Further product details

Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

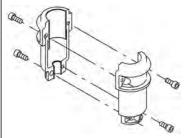
1) Alkaline-based cleaning.

- 2) Zinc phosphating.
- Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

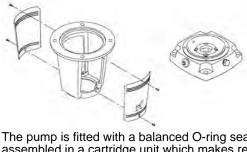
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.



17/02/2019

Qty. | Description

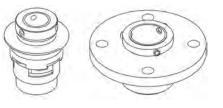
Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- 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.

Secondary seal material: EPDM (ethylene-propylene rubber)

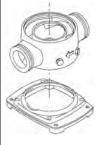
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



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	
Controls: Frequency converter:	NONE
Liquid: Pumped liquid:	Water



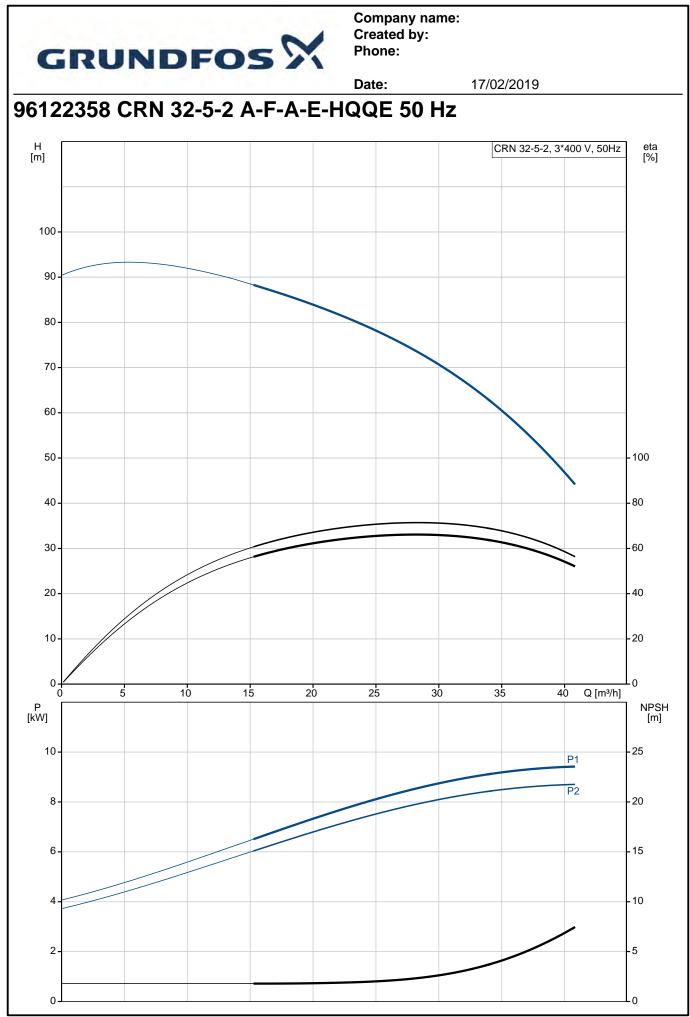
	Date:	17/02/2019
Description		
Liquid temperature range:	-40 120 °C	
Liquid temperature during ope	eration: 20 °C	
Density:	998.2 kg/m³	
Technical:	data ara basadi 2024 mm	
Pump speed on which pump of Rated flow:	30 m ³ /h	
Rated head:	69.7 m	
Pump orientation:	Vertical	
Shaft seal arrangement:	Single	
Code for shaft seal:	HQQE	
Approvals on nameplate:	CE, EAC,ACS	
Curve tolerance:	ISO9906:2012 3B	
Materials:		
Base:	Stainless steel	
	EN 1.4408	
	AISI 316	
Impeller:	Stainless steel	
	EN 1.4401	
	AISI 316	
Bearing:	SIC	
Support bearing:	Graflon	
Installation:		
Maximum ambient temperatur		
Maximum operating pressure:		
Max pressure at stated temp:		
Time of compactions	16 bar / -40 °C	
Type of connection:	DIN	
Size of inlet connection:	DN 65	
Size of outlet connection:	DN 65	
Size of outlet connection: Pressure rating for pipe connection	DN 65 ection: PN 40	
Size of outlet connection:	DN 65	
Size of outlet connection: Pressure rating for pipe connection	DN 65 ection: PN 40	
Size of outlet connection: Pressure rating for pipe connection Flange size for motor:	DN 65 ection: PN 40	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard:	DN 65 ection: PN 40 FF300	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type:	DN 65 ection: PN 40 FF300 IEC	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class:	DN 65 ection: PN 40 FF300 IEC 160MB IE3	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 %	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump Mains frequency: Rated voltage: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2%	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2% 91.2-91.2 %	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2% 91.2-91.2 % 91.8 %	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2% 91.2-91.2 % 91.8 % 91.3 %	
Size of outlet connection: Pressure rating for pipe connections Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2% 91.2-91.2 % 91.8 % 91.3 % 2	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load:	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2% 91.2-91.2 % 91.8 % 91.3 %	
Size of outlet connection: Pressure rating for pipe connecting Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW : 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2% 91.2-91.2 % 91.8 % 91.3 % 2 55 Dust/Jetting	
Size of outlet connection: Pressure rating for pipe connecting Flange size for motor: Electrical data: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2% 91.2-91.2 % 91.8 % 91.3 % 2 55 Dust/Jetting F	
Size of outlet connection: Pressure rating for pipe connecting Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):	DN 65 ection: PN 40 FF300 IEC 160MB IE3 11 kW 50 Hz 3 x 380-415D/660-690Y V 20,8-19,8/12,0-11,8 A 660-780 % 0.88-0.84 2940-2950 rpm IE3 91,2% 91.2-91.2 % 91.8 % 91.3 % 2 55 Dust/Jetting F	



17/02/2019

Qty. De	escription
-----------	------------

Shipping volume: Danish VVS No.: 0.495 m³ 385916052



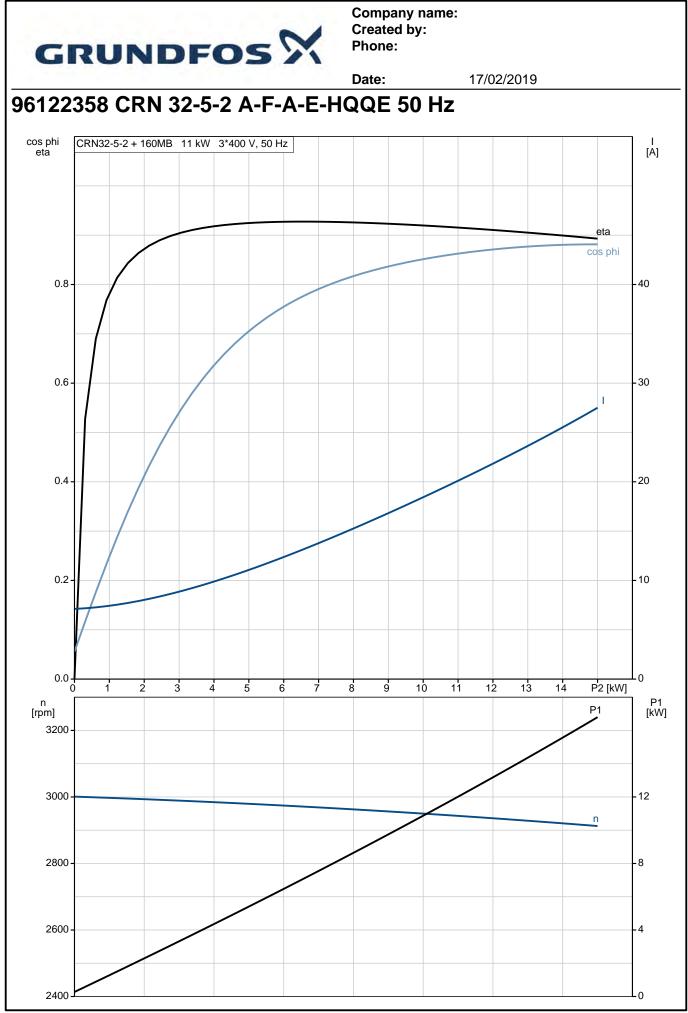


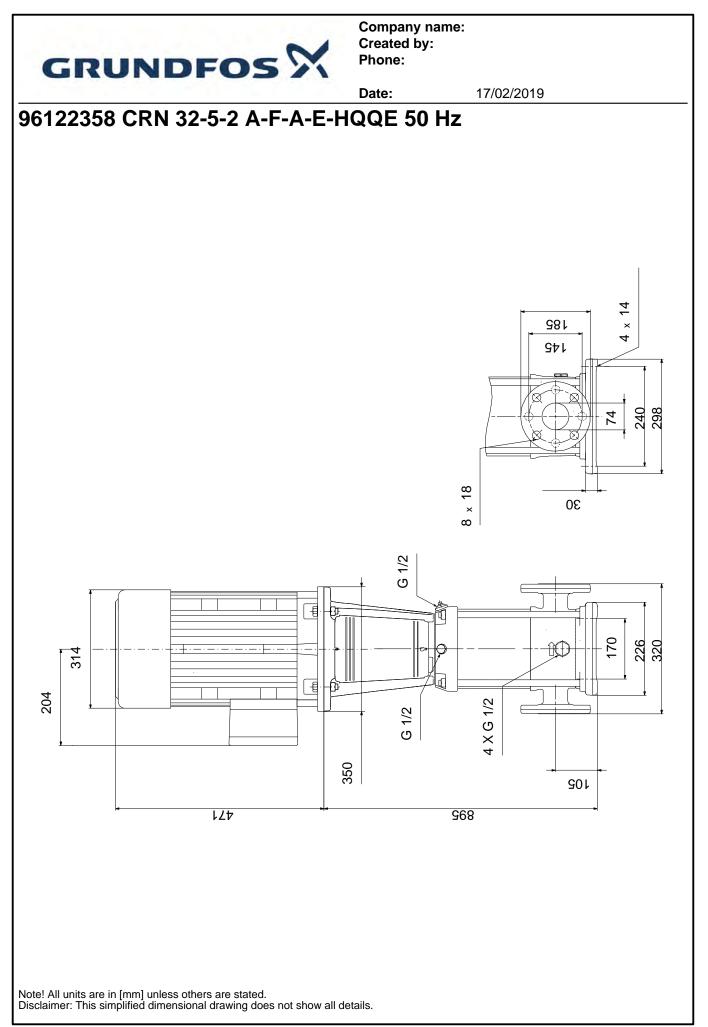
		Date:	17/02/2019	
Description	Value	H [m]	CRN 32-5-2, 3*400 V, 50Hz	eta [%]
General information:				
Product name:	CRN 32-5-2 A-F-A-E-HQQE	100 -		
Product No:	96122358	90-		
EAN number:	5700396684024			
Technical:		80 -		
Pump speed on which pump data are based:	2924 rpm	70 -		
Rated flow:	30 m³/h	60 -		
Rated head:	69.7 m	50		
Head max:	90.2 m	50 -		100
Stages:	5	40 -		30
Impellers:	5			
Number of reduced-diameter impellers:	2	30 -	6	60
Low NPSH:	N	20-		40
Pump orientation:	Vertical	20-	4	ŧU
Shaft seal arrangement:		10-		20
Code for shaft seal:	Single HQQE			
			10 15 20 25 30 35 Q[m³/h])
Approvals on nameplate:	CE, EAC,ACS	P		NPSH
Curve tolerance:	ISO9906:2012 3B	[kW]		[m]
Pump version:	A	10 -	P1 2	25
Model:	В	8 -	P2 2	20
Materials:				
Base:	Stainless steel	6 -	1	15
	EN 1.4408			
	AISI 316	4-		10
Impeller:	Stainless steel	2-	5	5
	EN 1.4401	-	°	
	AISI 316)
Material code:	A	. 204		
Code for rubber:	E	314	-	
Bearing:	SIC			
Support bearing:	Graflon		n de la companya de la	
Installation:		F F F F F F F F F F F F F F F F F F F		
Maximum ambient temperature:	60 °C			
Maximum operating pressure:	16 bar			
Max pressure at stated temp:	16 bar / 120 °C	350		
	16 bar / -40 °C			
Type of connection:	DIN	<u>G 1/2</u>		
Size of inlet connection:	DN 65		8 × 18	
Size of outlet connection:	DN 65	4 × G 1/2		
Pressure rating for pipe connection:	PN 40			
Flange size for motor:	FF300			
Connect code:	F	226 320	240 298	
Liquid:				
Pumped liquid:	Water		Y	
Liquid temperature range:	-40 120 °C		'	
Liquid temperature during operation:	20 °C			
Density:	998.2 kg/m ³	× ⁺ [⊤] × ⁺	Y ♥	
Electrical data:	· · · · · · · · · · · · · · · · · · ·	I Line	<u>70</u> 1	
Motor standard:	IEC			
Motor type:	160MB	TO AMPLIFIER RELAY		
IE Efficiency class:	IE3			
Rated power - P2:	11 kW	10,+т ∎ 10,+т		
Power (P2) required by pump:	11 kW			
Mains frequency:	50 Hz	I H HOTO		
Rated voltage:	3 x 380-415D/660-690Y V			
	•	TO AMPLIFIER RELAY L1 L2		
Rated current:	20,8-19,8/12,0-11,8 A			

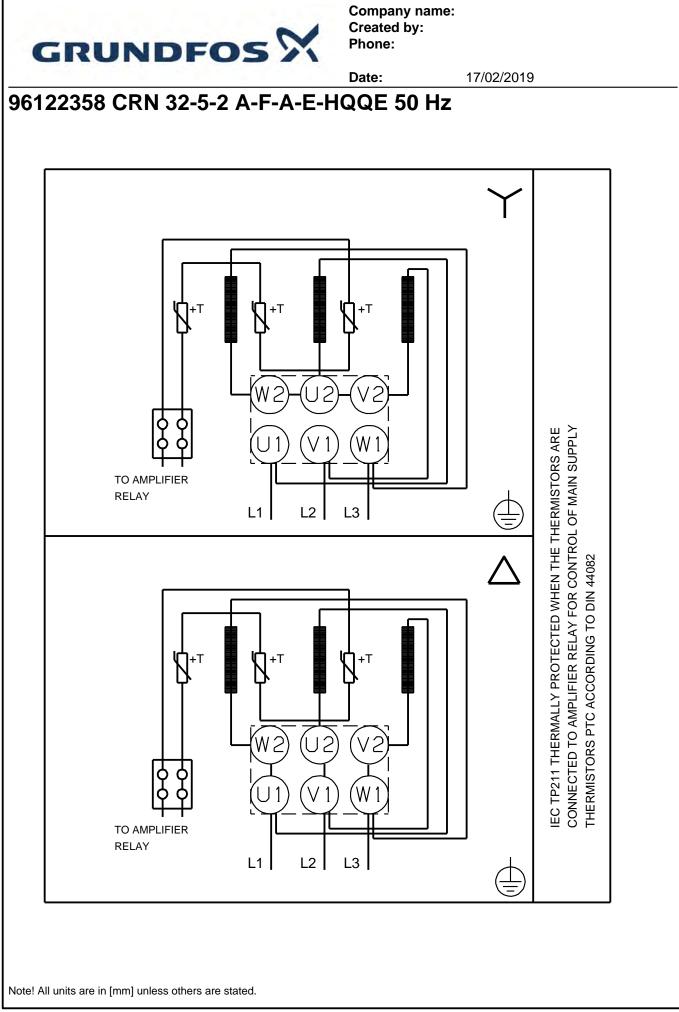
Printed from Grundfos Product Centre [2018.09.002]



		Date:	17/02/2019	
Description	Value			
Starting current:	660-780 %			
Cos phi - power factor:	0.88-0.84			
Rated speed:	2940-2950 rpm			
Efficiency:	IE3 91,2%			
Motor efficiency at full load:	91.2-91.2 %			
Motor efficiency at 3/4 load:	91.8 %			
Motor efficiency at 1/2 load:	91.3 %			
Number of poles:	2			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protec:	PTC			
Motor No:	85U17524			
Controls:				
Frequency converter:	NONE			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	160 kg			
Gross weight:	193 kg			
Shipping volume:	0.495 m ³			
Danish VVS No.:	385916052			



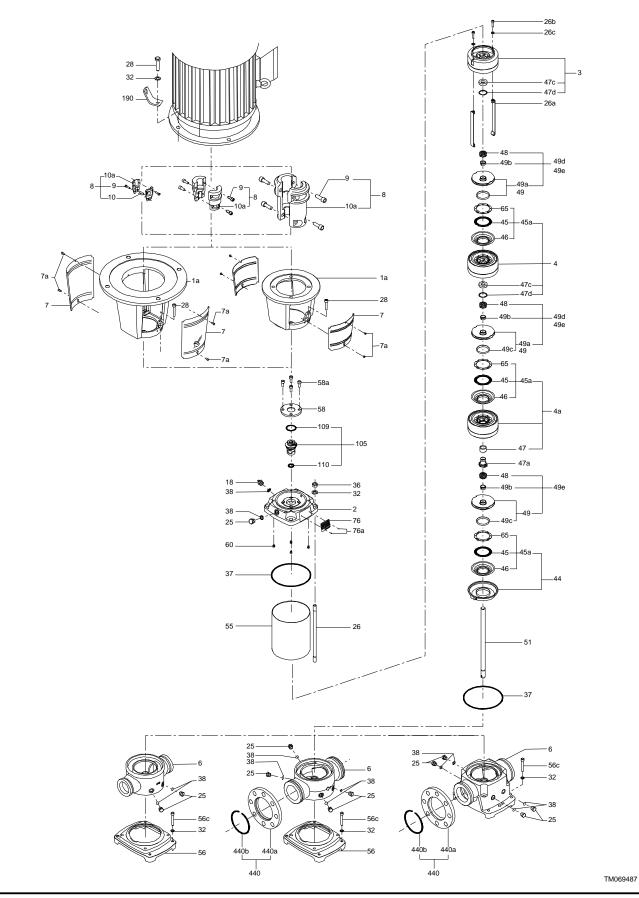




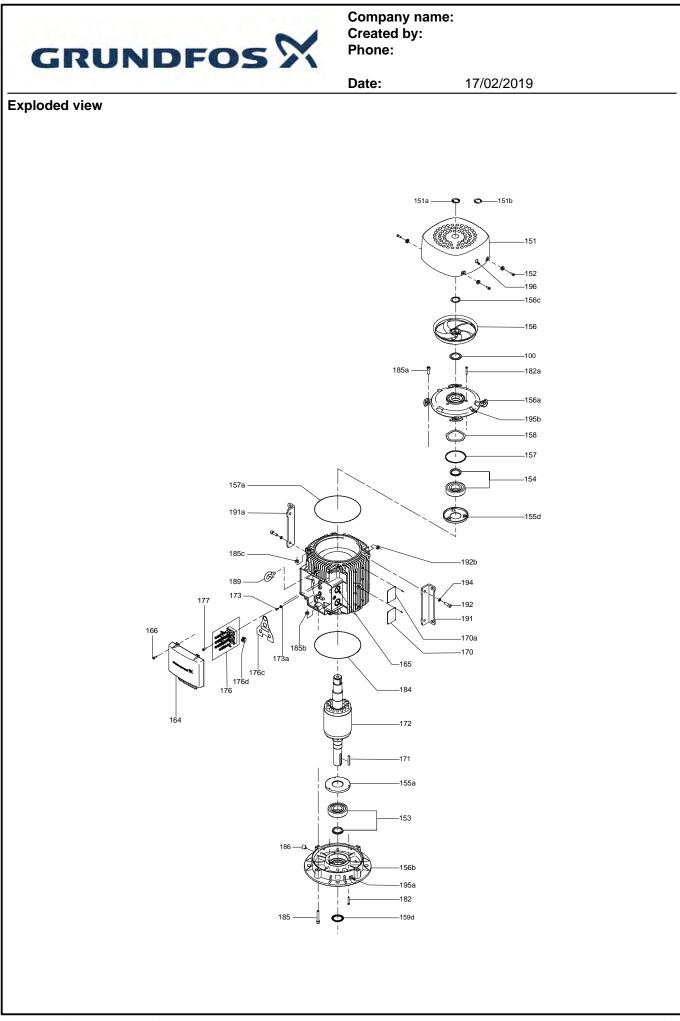


17/02/2019

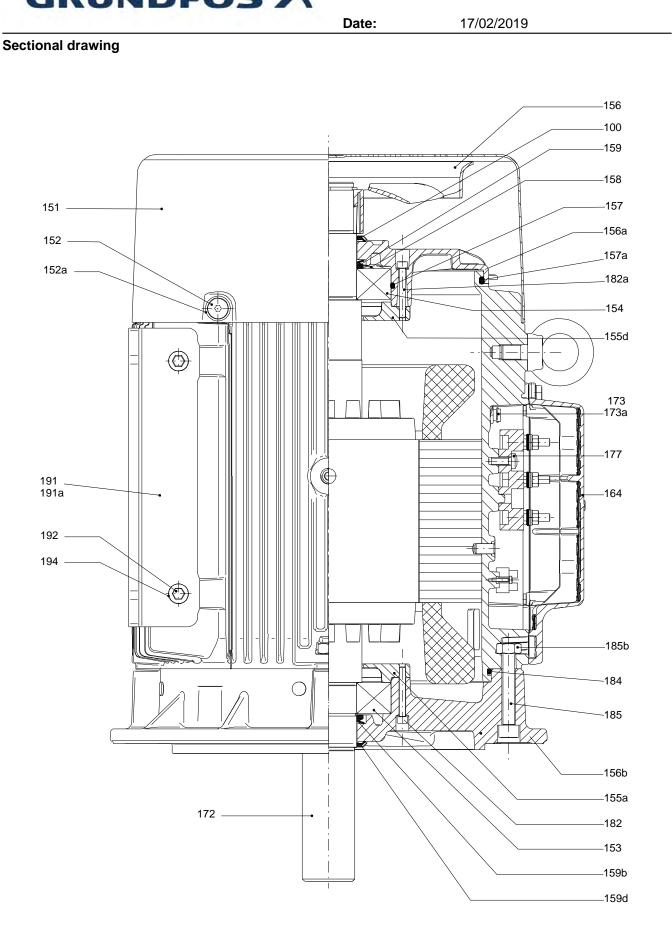
(tm069487 for LACR model B standard)



Printed from Grundfos Product Centre [2018.09.002]









17/02/2019

Spare parts CRN 32-5-2, Product No. 96122358 Valid from 3.3.2014 (1410)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Uni
	Base			98925061	1	pcs
6	Base					1
80	Kit, chamber stack			96416921	1	pcs
80	Chamber stack					1
3	Upper chamber cpl.					
•	Guide cup					
	Guide cup					
	Cone					
	Guide					
	Chamber					
	Chamber					
47d	Lock ring					
47c	Bush					
4a	Intermediate chamber cpl.					
	Guide cup					
	Guide cup					
	Cone					
	Guide					
	Chamber					
	Chamber					
45a	Neck ring cpl.					
47	Bearing					
4	Intermediate chamber cpl.					
4						
	Guide cup					
	Guide cup					
	Cone					
	Guide					
	Chamber					
	Chamber					
45a	Neck ring cpl.					
47d	Lock ring					
47c	Bush					
26c	Washer		Designation: D	N 125A		
			Thickness: 1,6			
26b	Hex socket head cap screw		rinolaloool i,o			
26a	Strap cpl.		Length (mm): 3	50		
20a	Strap opi.		Thread: M8	59		
	Overtien internetien enter		Thread. No			
44	Suction interconnector cpl.					
44a	Suction interconnector					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47a	Bearing cpl.					
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
49e	Impeller cpl.					
49e 48	Nut					
49b	Split cone					
49	Impeller					
	Impeller hub					
49c	Wear ring					



Pos	Description	Annotation	Classification Data	Part no.		y. Unit
4 9d	Impeller cpl. reduced diameter	Annotation	Classification Data	Falt IIO.	a	y. Onit
48	Nut					
49b	Split cone					
49a						
1 50	Impeller hub					
49c	Wear ring					
+90 51	Shaft					
51	Kit, chambers			98633738	1	000
4a	Intermediate chamber cpl.			90033730	I	pcs 1
+a						I
	Guide cup					
	Guide cup					
	Cone					
	Guide					
	Chamber					
4 -	Chamber					
45a	Neck ring cpl.					
47	Bearing					
47a	Bearing cpl.					1
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling			96416592	1	pcs
	Adjusting fork					1
8	Coupling cpl.		Dimension: 22/42			1
9	Hex socket head cap screw		Designation: D	IN 912		
			Length (mm): 25			
			Thread: M10			
10a	Coupling half					
	Kit, coupling guard			96505135	1	pcs
7a	Socket button head screw					4
7	Coupling guard					2
	Kit, cover			98832448	1	pcs
58a	Hex socket head cap screw		Designation: DIN 9	12		4
			Length (mm): 25			
			Thread: M10			
58	Cover					1
	Kit, gaskets			96416597	1	pcs
	Adjusting fork					1
37	O-ring					2
38	O-ring		Diameter: 16,3			2
			Material type: EPDM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3			4
	č		Material type: EPDM			
			Thickness: 2,4			
60	Spring					4
109	O-ring					1
110	O-ring		Diameter: 21,2			1
			Material type: EPDM			•
			Thickness: 3,55			
	Kit, impeller		THOM 1033. 0,00	98633780	1	pcs
18	Nut			90000100	1	pcs
48 48						
48 40b	Nut Split conc					1
49b	Split cone					1
49						1
40	Impeller hub					
49c	Wear ring					



Pos	Description	Annotation Classification Data	Part no.	Qty.	. Unit
	Kit, Impeller, reduced diamete		98633836		pcs
48	Nut				1
48	Nut				1
49b	Split cone				1
49a	Impeller				1
	Impeller hub				
49c	Wear ring				
	Kit, plug		96505136	1	pcs
18	Air vent screw				1
	Spindle				
	Plug				
25	Plug				4
25	Plug				1
38	O-ring	Diameter: 16,3			2
		Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			4
		Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			6
		Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			4
		Material type: EPDM			
		Thickness: 2,4			
	Kit, shaft seal HQQE		96525458	1	pcs
	Grinding device				1
105	Shaft seal	Material type: HQQ	E		1
	Adjusting fork				
109	O-ring				
110	O-ring	Diameter: 21,5			
		Material type: EPDM			
		Thickness: 4,25			
	Kit, wear parts		98497451		pcs
45	Seal ring				7
47d	Lock ring				7
47c	Bush				5
49c	Wear ring				7
65	Top f/neck ring				7
	Motor		85904227		pcs
oo'	Kit, bearing cpl.		967966	/6	1
32b	Waved washer				
153	Angular-contact bearing				
154	Ball bearing				
157	O-ring				
159	V-ring			<u>.</u> .	
	Kit, bearing plate		967966	64	1
155.a	Bearing cover				
208a	Gasket				
208	Hex socket head cap screw	Designation: DI	N912		
		Length (mm): 40			
		Thread: M5			
	Kit, eyebolt		967967	12	1
189	Eyebolt				
	Kit, fan		967966	54	1



			Date:	17/02/201	ษ	
Pos	Description	Annotation	Classification Data	Part no.	Qty.	Uni
156.c	Retaining ring					
156	Fan					
	Kit, fan cover			967966	47	1
151	Fan cover					
152.a	Rubber bush					
152	Hex head cap screw					
196	Diaphragm					
	Kit, flange			967966	62	1
156.b	Flange					
159.b	Seal ring					
185.b	Nut					
185	Hex socket head cap screw					
186	Drain plug					
195.a	Grease nipple					
	Kit, gaskets			967985	38	1
184	O-ring		Diameter: 235			
	Kit, lubrication nipple			967966	71	1
195.b	Grease nipple					
195.a	Grease nipple					
	Kit, ND-end shield cpl.			967966	39	1
32b	Waved washer			007000		•
156.a	End shield NDE					
150.4	O-ring					
159	V-ring					
185.c	Nut					
185.a	Hex socket head cap screw					
195.b	Grease nipple					
195.0	Kit, shaft seal			069424		1
150 6				968434	59	I
159.b	V-ring					
159	V-ring			007000		
	Kit, terminal board			967966	57	1
	Terminal connection					
	Washer					
36	Hex nut					
173	Torx Screw					
176.d	Terminal board					
176	Terminal board					
177	Torx Screw				_	
	Kit, terminal box cover			967966	59	1
164	Terminal box cover					
273a	Pan head thread forming screw					
1a	Motor stool			98993921	1	pcs
2	Pump head			98593646		pcs
3	Upper chamber cpl.			98633870	1	pcs
47c	Bulk, Bush (10 pcs)			993211	94	1
4	Bulk, Intermediate chamber cpl. (3 pcs)			99481487	3	pcs
4a	Bulk, Intermediate chamber cpl. (5 pcs)			99262783	1	pcs
4	Bulk, Intermediate chamber cpl. (10 pcs)			99481488	3	pcs
45a	Bulk, Neck ring cpl. (10 pcs)			965473		•
4	Intermediate chamber cpl.			98633840		pcs
6b	Base cpl.		Rubber type: EPDM	96587693		pcs
25	Bulk, Plug (10 pcs)			965360		
37	Bulk, O-ring (10 pcs)			965361		
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	991988		
	, Cg (poo/		Material type: EPDM	501000		
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	994127	27	1
00			Material type: EPDM	334127	-' '	*



Pos	Description	Annotation	Classification Data Thickness: 2,4	Part no.	Qty.	Unit
56	Base plate		1110(11000. 2,4	965876	<u>.</u> 591 1	1
7a	Bulk, Socket button head screw (10 pcs)			96549696		pcs
7	Bulk, Coupling guard (10 pcs)			96603279		pcs
8	Coupling cpl.		Dimension: 22/42	96587704		pcs
18	Bulk, Air vent screw (5 pcs)			96547461		pcs
18	Air vent screw			95061351		pcs
25	Bulk, Plug (10 pcs)			96536013		pcs
26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704		pcs
200			Thickness: 1,6	33202704	2	pcs
26c	Washer		Designation: DIN 125A	96586880	2	pcs
200	Washer		Thickness: 1,6	30300000	2	pco
26b	Bulk, Hex socket head cap screw (10 pcs)		THICKIE33. 1,0	98931380	2	pcs
26a	Strap cpl.		Length (mm): 359	98983860		pcs
20a	Strap cpi.		Thread: M8	90903000	2	pus
26	Bulk, Staybolt (4 pcs)		Length (mm): 562	98434923	4	
26	Buik, Staybolt (4 pcs)		Thread: M16	90434923	4	pcs
26	Staubalt			00076604	4	
26	Staybolt		Length (mm): 562	98976684	4	pcs
<u> </u>			Thread: M16	00000470	4	
28.a	Bulk, Hex head screw (20 pcs)		Designation, DIM 040	96620478		pcs
28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147	4	pcs
			Length (mm): 50			
~~			Thread: M10			
32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	8	pcs
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480	4	pcs
37	Bulk, O-ring (10 pcs)			96536149	1	pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	pcs
			Material type: EPDM			
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
			Material type: EPDM			
			Thickness: 2,4			
44	Suction interconnector cpl.			98633886	1	pcs
45	Bulk, Seal ring (10 pcs)			979152	217 1	1
65	Bulk, Top f/neck ring (10 pcs)			965349	931 1	1
47a	Bulk, Bearing cpl. (5 pcs)			99366796	1	pcs
47a	Bulk, Bearing cpl. (10 pcs)			96534932	1	pcs
49e	Impeller cpl.			98394326	3	pcs
49	Bulk, Impeller (10 pcs)			965349		•
49d	Impeller cpl. reduced diameter			98394466		pcs
48	Bulk, Nut (3 pcs)			992626		•
48	Bulk, Nut (10 pcs)			992626		
48	Bulk, Nut (10 pcs)			965360		
40 49b	Bulk, Split cone (10 pcs)			965360		
490 49a	Impeller			965360		
	•					
49c	Bulk, Wear ring (10 pcs)		Outor diameter 107		53493 1	
55	Outer sleeve		Outer diameter: 197	99044961	1	pcs
50	0		Length (mm): 375,5	00000176		
58	Cover			98893158		pcs
60	Bulk, Spring (20 pcs)			96536032		pcs
105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086		pcs
	Adjusting fork			965878		
109	Bulk, O-ring (10 pcs)			965475		1
105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
203	Bulk, Lock ring (4 pcs)			96534918	1	pcs