

Date: 16/02/2019

Qty. Description

1 CR 5-18 A-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96517051

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 combined DIN-ANSI-JIS flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Further product details

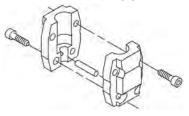
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

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

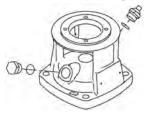
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



The pump head, pump head cover and flange for motor mounting is made in one piece. 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.

Primary seal

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)



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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)

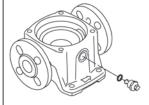
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is 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 base is made of cast iron. The flanges and base are cast in one piece. 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.



Motor

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

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (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
Liquid temperature range: -20 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2902 rpm

Rated flow: 5.8 m³/h Rated head: 93 m



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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: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 25 bar

Max pressure at stated temp: 25 bar / 120 °C

25 bar / -20 °C

Type of connection: DIN / ANSI / JIS

Size of inlet connection: DN 25/32 1 1/4 inch

Size of outlet connection: DN 25/32

1 1/4 inch

Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: FT130

Electrical data:

Motor standard: IEC
Motor type: 100LC
IE Efficiency class: IE3
Rated power - P2: 3 kW
Power (P2) required by pump: 3 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 220-240D/380-415Y V

Rated current: 11.0/6.30 A Starting current: 840-920 % Cos phi - power factor: 0.87-0.82 Rated speed: 2900-2920 rpm Efficiency: IE3 87,1% Motor efficiency at full load: 87.1 % Motor efficiency at 3/4 load: 88.0 % 87.7 % Motor efficiency at 1/2 load:

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

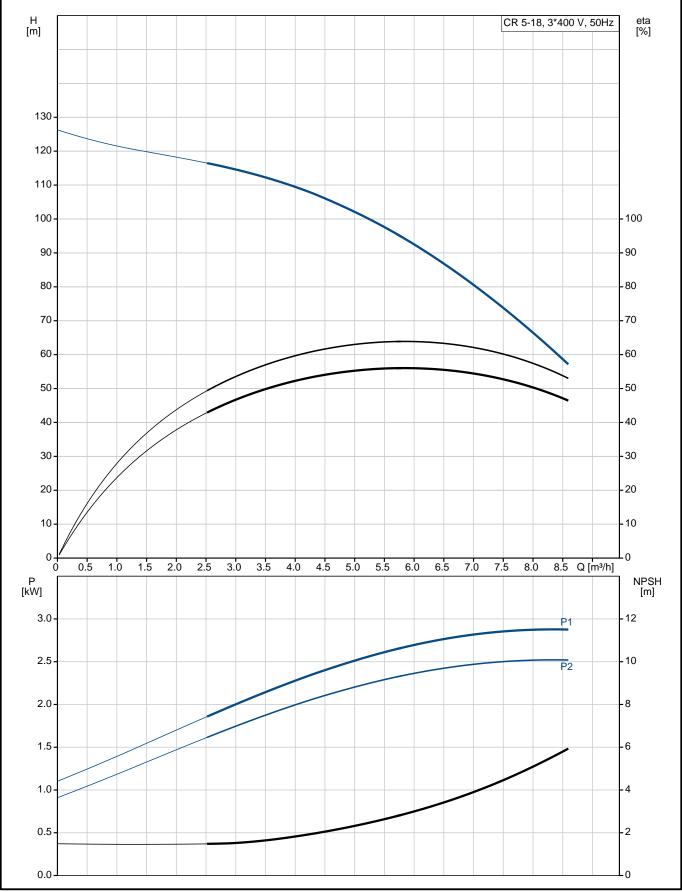
Others:

Minimum efficiency index, MEI ≥: 0.57
Net weight: 52.2 kg
Gross weight: 57.6 kg
Shipping volume: 0.133 m³
Swedish RSK No.: 5824860
Norwegian NRF no.: 9040287



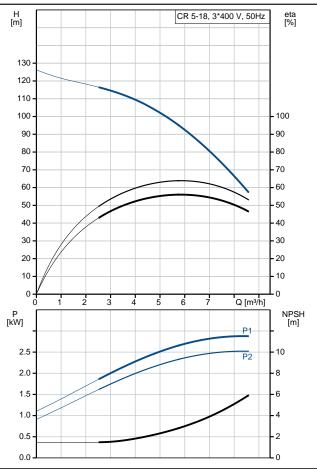
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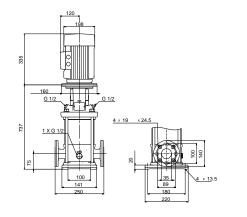
96517051 CR 5-18 A-FGJ-A-E-HQQE 50 Hz

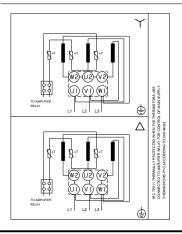




Description Value General information: CR 5-18 A-FGJ-A-E-HQQE Product No: 96517051 EAN number: 5700396755243 Technical: 2902 rpm Pump speed on which pump data are based: 2902 rpm Rated flow: 5.8 m²/h Rated head: 93 m Head max: 122.7 m Stages: 18 Impellers: 0 Number of reduced-diameter impellers: 0 Low NPSH: N Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQGE Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1, 43001 A Alsol of rubber: E Bearing:		
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Code for rubber: Bearing: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: FT130 Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Density: Bectrical data: Motor standard: Motor type: IEC Motor type: IES Rated power - P2: Power (P2) required by pump: 3 kW	Material code:	
Bearing: SIC Installation: Maximum ambient temperature: 60 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: FT130 Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		• •
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: Flange size for motor: FT130 Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: DN 25/32 1 1/4 inch PN 25 Flange rating inlet: FOJ Electrical code: FGJ Liquid: Pumped liquid: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor standard: Motor type: 100LC IE Efficiency class: Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		<u>-</u>
Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: DN 25/32 1 1/4 inch PN 25 Flange rating inlet: FGJ Electrical code: FGJ Liquid: Pumped liquid: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor standard: Motor type: 100LC IE Efficiency class: Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		010
Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Under tiquid temperature range: Liquid temperature during operation: DN 25/32 1 1/4 inch PN 25 Flange rating inlet: FT130 Connect code: FGJ Liquid: Pumped liquid: Under tiquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor standard: Motor type: IEC Motor type: IEC Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		60 °C
Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Uvater Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: IEC Motor type: IEC Rated power - P2: 3 kW Power (P2) required by pump: 3 kW	•	
25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: FT130 Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		
Type of connection: Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: IEC Motor type: IEC Rated power - P2: Power (P2) required by pump: 3 kW	wax pressure at stated temp.	
Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: Elange size for motor: Connect code: FGJ Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature during operation: Density: Density: Pectrical data: Motor standard: Motor type: IEC Motor type: IES Rated power - P2: Power (P2) required by pump: 3 kW	Type of connection:	
Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: FT130 Connect code: FGJ Liquid: Pumped liquid: Vater Liquid temperature range: -20 120 °C Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 100LC IE Efficiency class: Rated power - P2: Power (P2) required by pump: 3 kW		
Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: FT130 Connect code: FGJ Liquid: Pumped liquid: Uquid temperature range: Liquid temperature during operation: Density: Density: Plange size for motor: FGJ Liquid: Pumped liquid: Ugate Liquid temperature during operation: Density: De	Olze of friet confidence.	
1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: FT130 Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW	Size of outlet connection:	,
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pestandard: Motor standard: Motor type: IEC Rated power - P2: Power (P2) required by pump: Standard: 250 lb Water Liquid vert FGJ Water Liquid temperature during operation: 20 °C 20 °C 20 °C 100 C IEC Motor type: 100 LC IES 3 kW	Size of outlet confidence.	
Flange rating inlet: 250 lb Flange size for motor: FT130 Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW	Pressure rating for nine connection:	,
Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: IEC Motor type: IES Rated power - P2: Power (P2) required by pump: FGJ Water FGJ Water Liquid temperature 20 °C 21 °C 20 °C 21 °C 22 °C 23 °C 24 °C 25 °C 26 °C 26 °C 27 °C 28 °C 28 °C 29 °C 20 °C 2	~	
Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		
Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: IEC Motor type: IES Rated power - P2: Power (P2) required by pump: Water Water Hack Water 20 °C 20 °C 998.2 kg/m³ EleC 100LC IEC Motor type: IES Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		
Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		1 00
Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 100LC IE Efficiency class: Rated power - P2: Power (P2) required by pump: 3 kW		Water
Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		
Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		
Electrical data: Motor standard: Motor type: IEC Motor type: 100LC IE Efficiency class: Rated power - P2: Power (P2) required by pump: 3 kW		
Motor standard: IEC Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		500.2 Ng/III
Motor type: 100LC IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		IFC
IE Efficiency class: IE3 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		
Rated power - P2: 3 kW Power (P2) required by pump: 3 kW		
Power (P2) required by pump: 3 kW	-	
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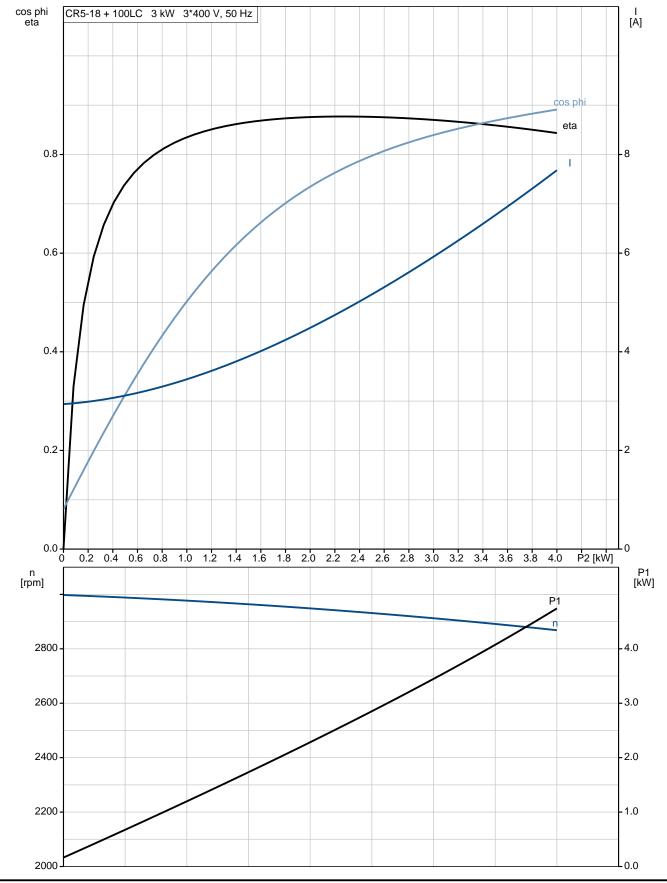


Description	Value
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	11.0/6.30 A
Starting current:	840-920 %
Cos phi - power factor:	0.87-0.82
Rated speed:	2900-2920 rpm
Efficiency:	IE3 87,1%
Motor efficiency at full load:	87.1 %
Motor efficiency at 3/4 load:	88.0 %
Motor efficiency at 1/2 load:	87.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U05510
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.57
Net weight:	52.2 kg
Gross weight:	57.6 kg
Shipping volume:	0.133 m³
Swedish RSK No.:	5824860
Norwegian NRF no.:	9040287



Date: 16/02/2019

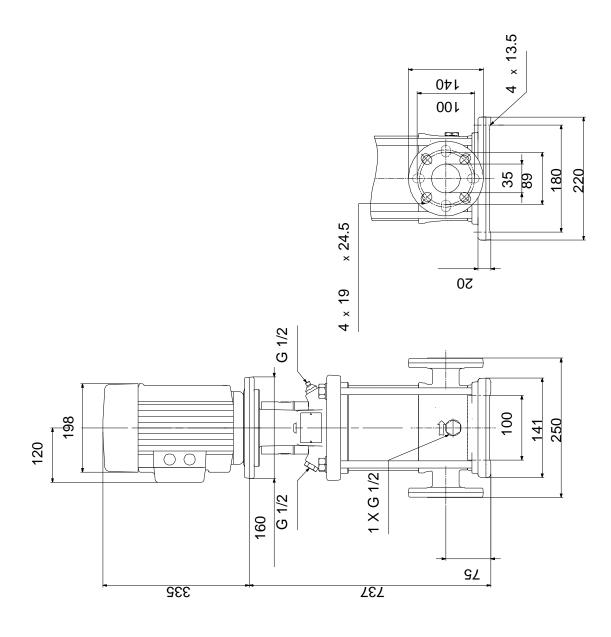
96517051 CR 5-18 A-FGJ-A-E-HQQE 50 Hz





Date: 16/02/2019

96517051 CR 5-18 A-FGJ-A-E-HQQE 50 Hz

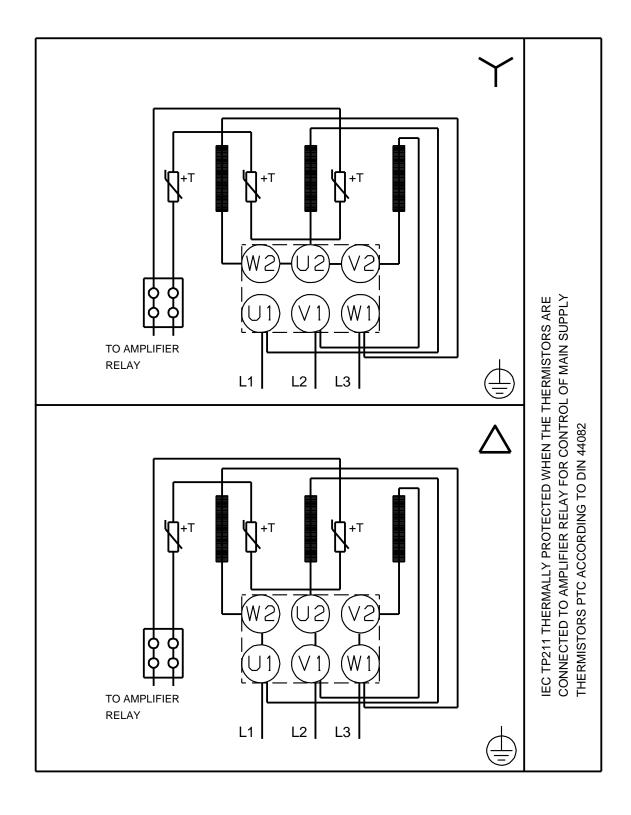


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 16/02/2019

96517051 CR 5-18 A-FGJ-A-E-HQQE 50 Hz



Note! All units are in [mm] unless others are stated.

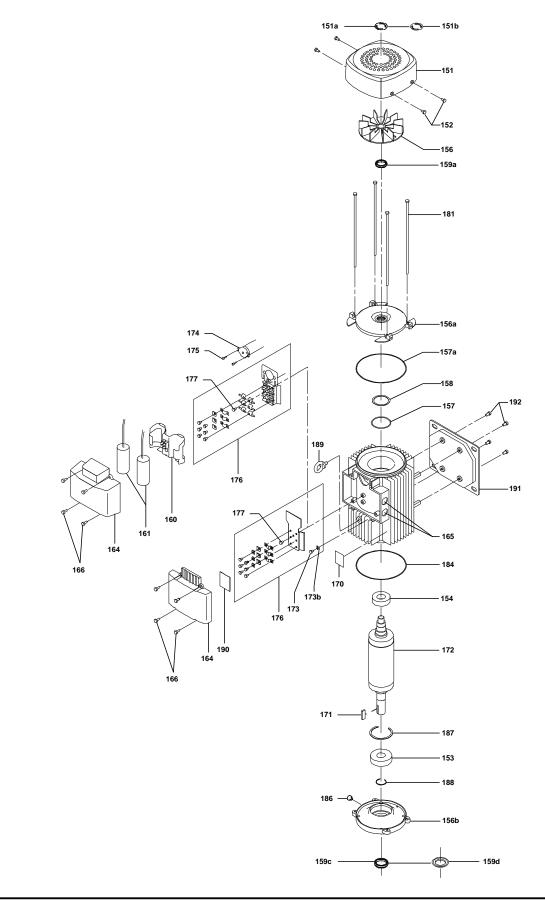


16/02/2019 Date: (TM069451 for SMCR standard)



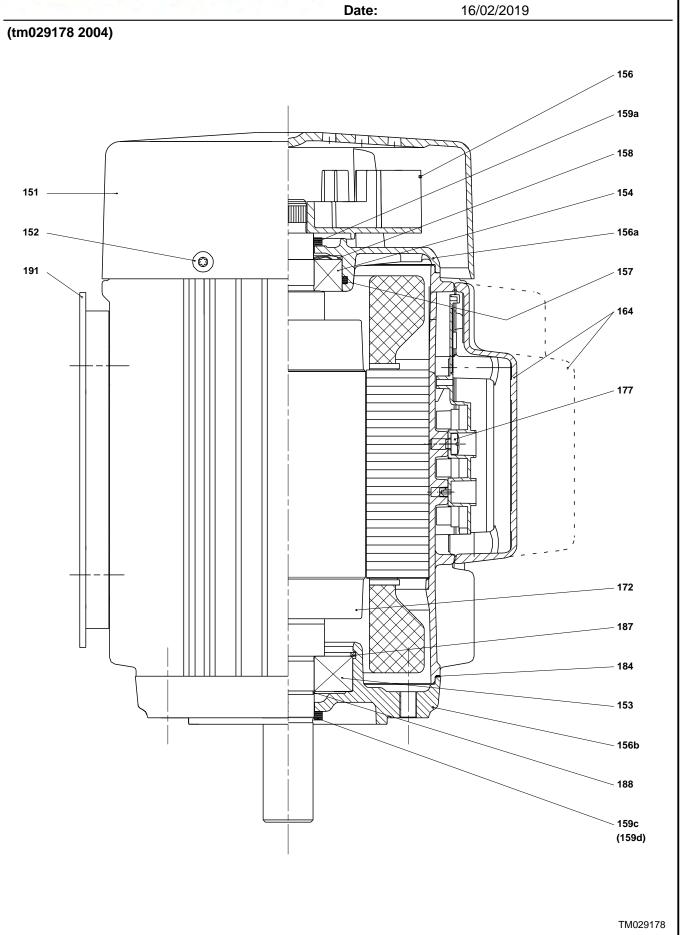
Date: 16/02/2019

(tm029184 0505)



TM029184







Date: 16/02/2019

Spare parts CR 5-18, Product No. 96517051 Valid from 1.1.2011 (1152)

Pos	Description Vit shamber stock	Annotation		Part no.	Qty.	
80	Kit, chamber stack		Bearing type: SILICON CARBIDE	90453590	1	pcs
- 4a	Chamber w. bearing cpl.					4
	Vane					
	Retainer for bearing					
	Guide vane					
	Chamber					
45	Neck ring					
47	Bearing bush					
65	Retainer					
65	Retainer for seal ring					
4	Chamber cpl.					13
	Vane					
	Plate					
	Guide vane					
5a	Chamber					
45	Neck ring					
65	Retainer					
65	Retainer for seal ring					
5a	Chamber cpl.					1
5a	Chamber					
45	Neck ring					
65	Retainer					
44a	Guide vane cpl.					1
	Plate					
	Guide vane					
50	Top plate					
47	Bearing ring, rotating					4
49	Impeller cpl.					18
51	Shaft, spline, cpl.					1
	Shaft					
62	Stop ring					
64d	Spacing pipe		Internal diameter: 12,85			1
	1 311		Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5			1
			Outer diameter: 15			
64a	Spacing pipe		Length (mm): 13.00			4
64	Spacing pipe		Length (mm): 26.0			13
66	Wedge lock washer		Longar (mm). Lo.o			1
67	Lock nut		Thread: M8			1
69	Spacing pipe		Length (mm): 2.00			1
00	Kit, coupling		2011ga1 (11111). 2.00	00415063		pcs
9	Hex socket head cap screw		Designation: DIN 912	00-T 10000		4
9	HEX SOURCE HEAD CAP SCIEW		Length (mm): 25			7
10-	Coupling half		Thread: M8			2
10a	Coupling half		Diameter: 5			2
10	Shaft pin		Diameter: 5			1
	Kit and ba		Length (mm): 26	0050510:		
	Kit, coupling guard			96505131		pcs
7.a	Combi Slot Torx screw					4
7	Coupling guard					2
	Kit, gaskets			96455090		pcs
37	O-ring					2



Pos	Description		y. Ur
38	O-ring	Diameter: 16,3	1
		Material type: EPDM	
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	2
		Material type: EPDM	
		Thickness: 2,4	
109	O-ring	Diameter: 22,00	1
109	O-ning		1
		Material type: EPDM	
		Thickness: 2,75	
	Kit, plug	96505133 1	рс
18	Air vent screw		1
	Spindle		
	Plug		
23b	Spindle		1
25	Plug		1
			1
25	Plug	D' 1 10 0	
38	O-ring	Diameter: 16,3	1
		Material type: FKM	
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	2
		Material type: FKM	
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	1
30	O-IIIIg		1
		Material type: EPDM	
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	2
		Material type: EPDM	
		Thickness: 2,4	
	Kit, shaft seal HQQE	96455086 1	рс
105	Shaft seal	Material type: HQQE	1
103		``	
	Kit, wear parts	Material type: SIC 96455099 1	po
4a	Chamber w. bearing cpl.		4
	Chamber		
45	Neck ring		
65	Neck ring retainer		
45	Neck ring		18
47	Bearing ring, rotating		4
64c	Clamp, splined	Internal diameter: 8,5	1
640	Clamp, splined	,	ı
		Outer diameter: 15	
64a	Spacing pipe	Length (mm): 13.00	4
65	Neck ring retainer		18
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
441b	Gasket		2
10	Motor	85903730 1	
			po
	Kit, Ball bearing	96279795	1
99a	Retaining ring		
99	Retaining ring		
111	Ball bearing		
111	Ball bearing		
157	O-ring	Diameter: 52	
137	O mily	Material type: NBR	
4	10/	Thickness: 3	
158	Waved washer		
	Kit, end shield	96279831	1
156a	End shield		
157	O-ring	Diameter: 52	
	- ··· 9	Material type: NBR	
		* *	
		Thickness: 3	



Pos	Description	Annotation	Classification Data	Part no. Qty.	U
158	Waved washer				
159a	Seal ring				
	Kit, fan			96279757 1	
156	Fan				
159a	Seal ring				
	Kit, fan cover			96279826 1	
151b	Label				
151	Fan cover				
152	Pan head thread forming screw				
	Kit, flange			96279828 1	
156b	Flange			302.3020	
156.c	Drain plug				
159.c	Seal ring				
100.0	Kit, retaining ring			96279799 1	
99	Retaining ring			30273733 1	
188	Retaining ring				
100				06270762 1	
1500	Kit, shaft seal			96279762 1	
159c	Seal ring				
159a	Seal ring			000=0000 :	
401	Kit, staybolts			96279832 1	
181	Pan head staybolt				
	Kit, terminal board			96279769 1	
173a	Base				
173	Pan head thread forming screw		Designation: CON		
176	Slot cheese head screw		Designation: CON	MBI TORX T25	
			Length (mm): 10		
			Thread: M5		
176	Terminal				
176	Connecting piece				
176	Wire clamp				
176	Terminal board				
177	Pan head screw				
	Kit, terminal box			96279771 1	
164	Terminal box cover w/gasket				
166	Pan head thread forming screw				
2a	Pump head			98681106 1	р
4a	Bulk, Chamber w. bearing cpl. (24 pcs)			96547652 4	p
4a	Chamber w. bearing cpl.			98371274 4	p
4	Bulk, Chamber cpl. (24 pcs)			96547651 13	•
45	Bulk, Neck ring (24 pcs)			96547603 1	р
	<u> </u>				
65	Bulk, Retainer (10 pcs)			97911446 1	
4	Chamber cpl.			98371271 13	р
5a	Chamber cpl.			98371269 1	po
6	Base			96588146 1	р
7.a	Bulk, Combi Slot Torx screw (1000 pcs)			96886324 4	р
7	Bulk, Coupling guard (10 pcs)			96603690 2	р
10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473 1	р
			Length (mm): 26		
18	Bulk, Air vent screw (5 pcs)		·	96547461 1	р
18	Air vent screw			95061351 1	p
25	Bulk, Plug (10 pcs)			96536013 1	р
25a	Drain plug w/bypass valve			96588242 1	p
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815 1	
30	Baik, O-ling (10 pcs)		Material type: EPDM	33130013 T	
20	Pulls O sing (50 per)		Thickness: 2,4	00440707 4	
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727 1	
			Material type: EPDM		
			Thickness: 2,4		



	Pos	Description	Annotation		Part no.	Qty.	Unit
	26	Bulk, Staybolt (4 pcs)		Length (mm): 511	96547457	4	pcs
				Thread: M12			
	26	Staybolt		Length (mm): 511	98986260	4	pcs
				Thread: M12			
	28	Bulk, Hex head screw (4 pcs)		Length (mm): 25	99335941	4	pcs
				Thread: M8			
	36	Bulk, Nut (20 pcs)		Thread: M12	96620479	4	pcs
	37	Bulk, O-ring (24 pcs)			96547656	2	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			
+	44a	Bulk, Guide vane cpl. (5 pcs)			96547658	1	pcs
+	44a	Guide vane cpl.			98681144	1	pcs
	47	Bulk, Bearing ring, rotating (10 pcs)			97905743	4	pcs
	47	Bearing ring, rotating			96547649	4	pcs
	49	Bulk, Impeller cpl. (10 pcs)			98394283	18	pcs
	49	Bulk, Impeller cpl. (24 pcs)			96547648	18	pcs
	49	Impeller cpl.			98394422	18	pcs
+	51	Shaft, spline, cpl.			98368524	1	pcs
	55	Outer sleeve			98811261	1	pcs
	60	Formed wire spring			96547664	1	pcs
	64c	Bulk, Clamp, splined (5 pcs)		Internal diameter: 8,5	98496968	1	pcs
				Outer diameter: 15			
	64a	Bulk, Spacing pipe (24 pcs)		Length (mm): 13.00	96536452	4	pcs
	64a	Spacing pipe		Length (mm): 13.00	98520104	4	pcs
	64	Bulk, Spacing pipe (24 pcs)		Length (mm): 26.0	96536304	13	pcs
	66	Bulk, Wedge lock washer (10 pcs)			96536157	1	pcs
	67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008	1	pcs
	69	Bulk, Spacing pipe (10 pcs)		Length (mm): 2.00	96536451	1	pcs
+	105	Bulk, Shaft seal (15 pcs)		Material type: HQQE	96983415	1	pcs