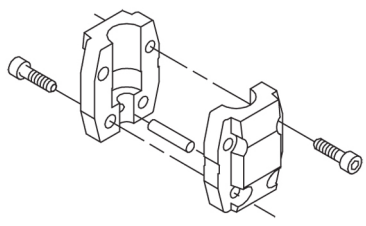
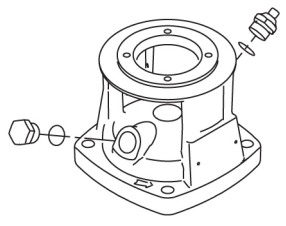
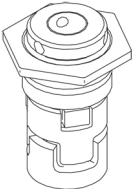
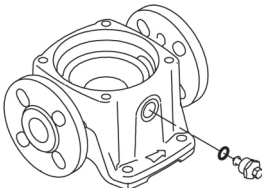
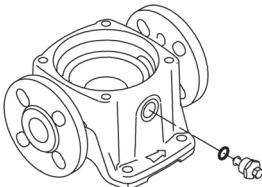


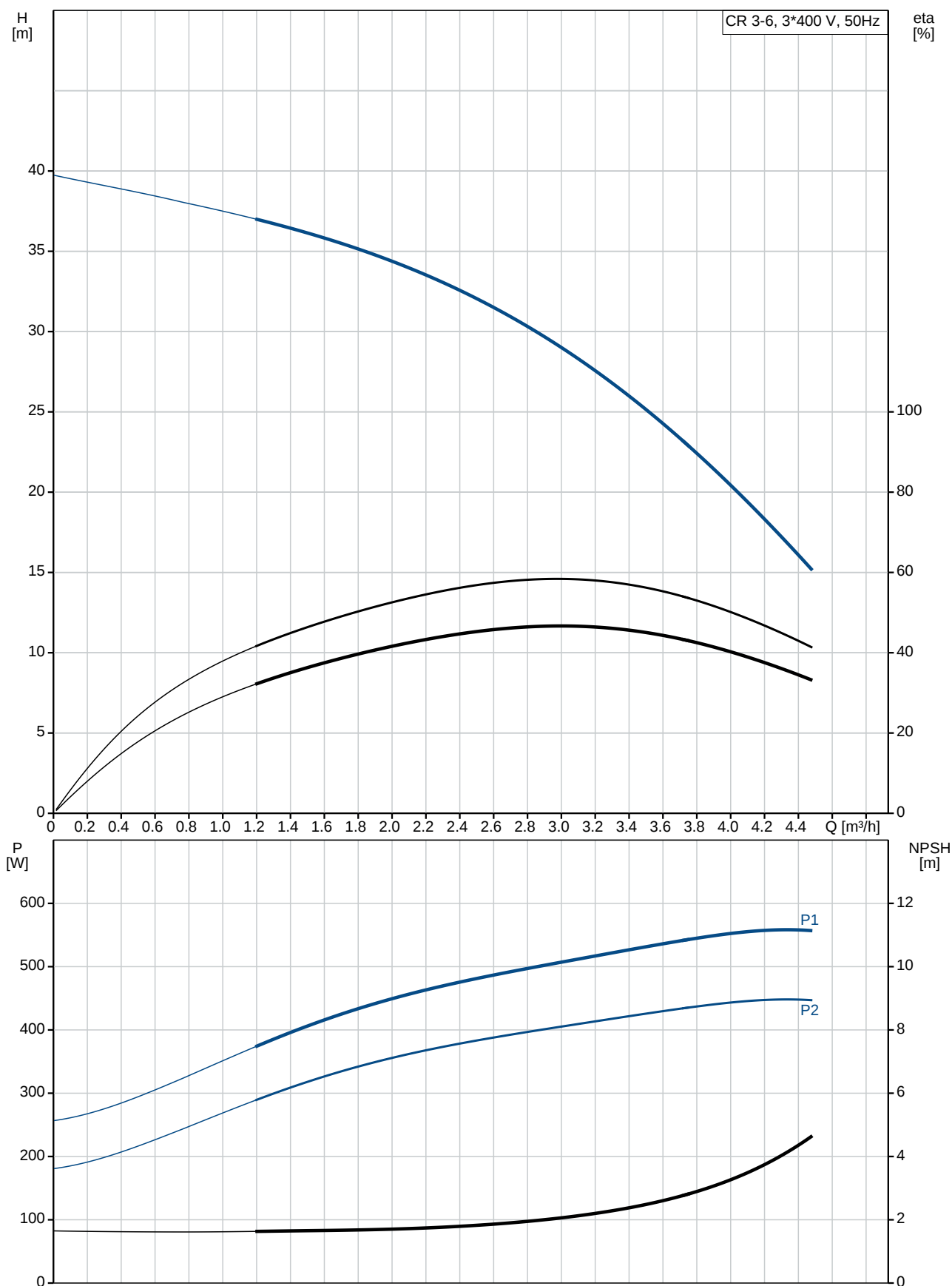
Qty.	Description
1	CR 3-6 A-FGJ-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96516653 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A 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)

Qty.	Description
	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.  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 does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1). Technical data Controls: Frequency converter: NONE Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 120 °C Liquid temperature during operation: 20 °C

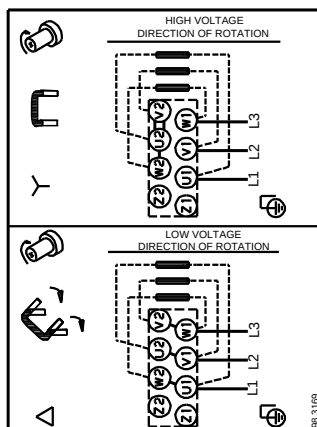
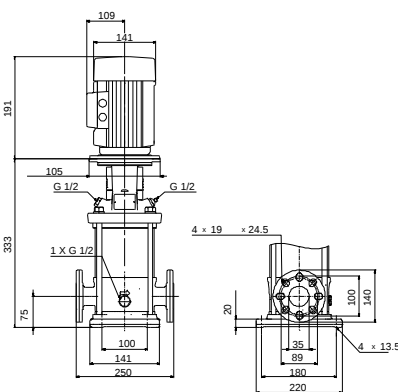
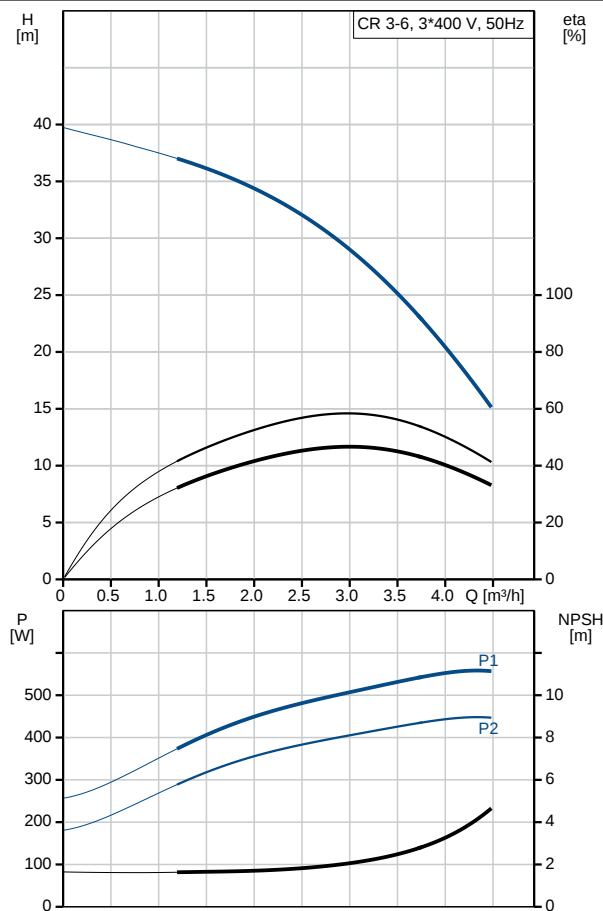
Qty.	Description
	Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 2856 rpm Rated flow: 3 m³/h Rated head: 28.5 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CE, EAC, ACS Curve tolerance: ISO9906:2012 3B Materials: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 40 °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: FT85 Electrical data: Motor standard: IEC Motor type: 71B IE Efficiency class: IE3 Rated power - P2: 0.55 kW Power (P2) required by pump: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 2.50/1.44 A Starting current: 580-620 % Cos phi - power factor: 0.80-0.70 Rated speed: 2830-2850 rpm Efficiency: IE3 77,8% Motor efficiency at full load: 77.8 % Motor efficiency at 3/4 load: 81.5 % Motor efficiency at 1/2 load: 79.5 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Others: Minimum efficiency index, MEI $\eta_{\%}$: 0.70 Net weight: 23.8 kg Gross weight: 26.6 kg

14/02/2019

96516653 CR 3-6 A-FGJ-A-E-HQQE 50 Hz



Description	Value
General information:	
Product name:	CR 3-6 A-FGJ-A-E-HQQE
Product No:	96516653
EAN number:	5700396747293
Technical:	
Pump speed on which pump data are based:	2856 rpm
Rated flow:	3 m³/h
Rated head:	28.5 m
Head max:	39.5 m
Stages:	6
Impellers:	6
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC, ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B
Impeller:	Stainless steel EN 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	40 °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:	FT85
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:	71B
IE Efficiency class:	IE3
Rated power - P2:	0.55 kW
Power (P2) required by pump:	0.55 kW
Mains frequency:	50 Hz





Company name:

Created by:

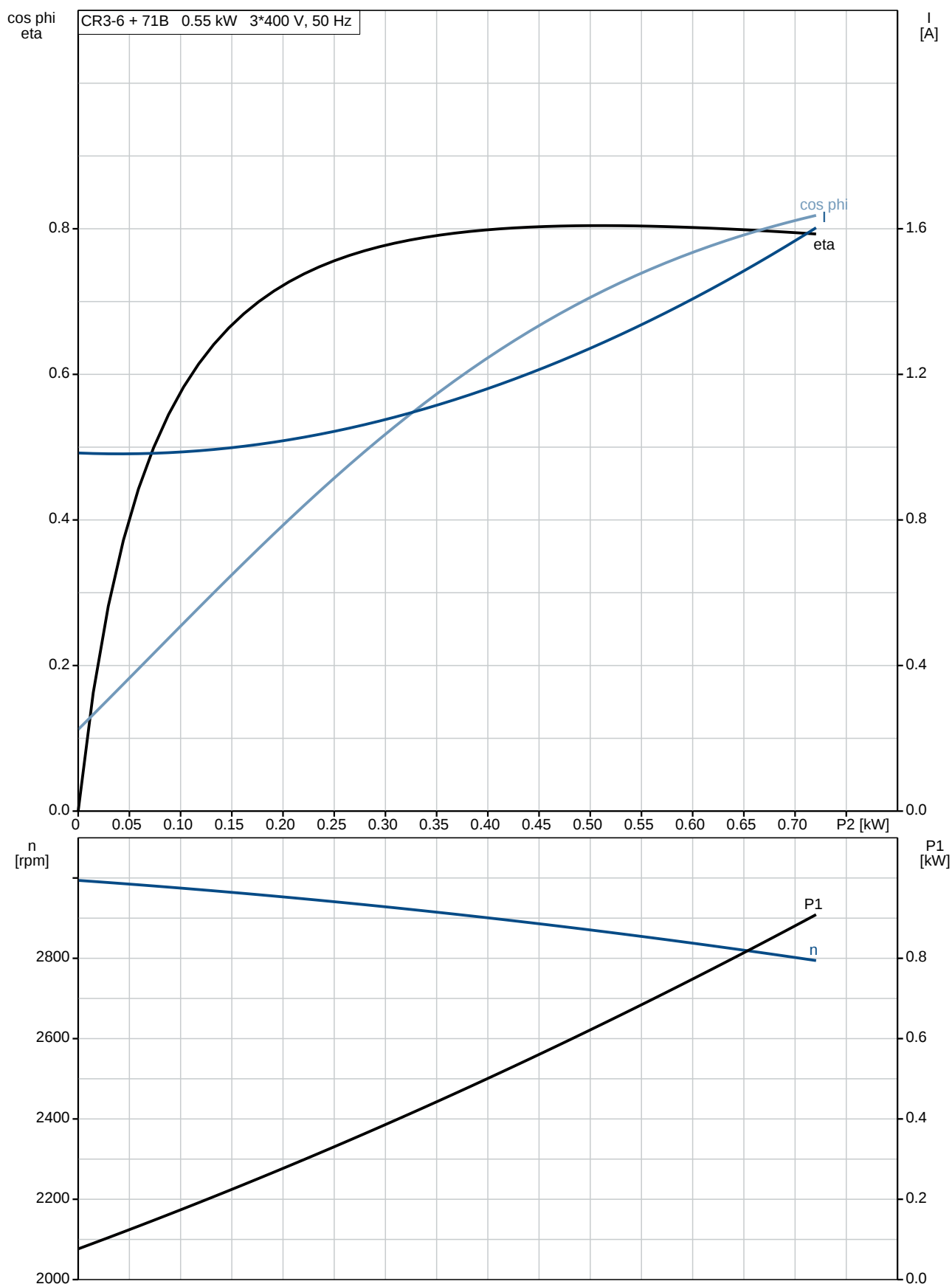
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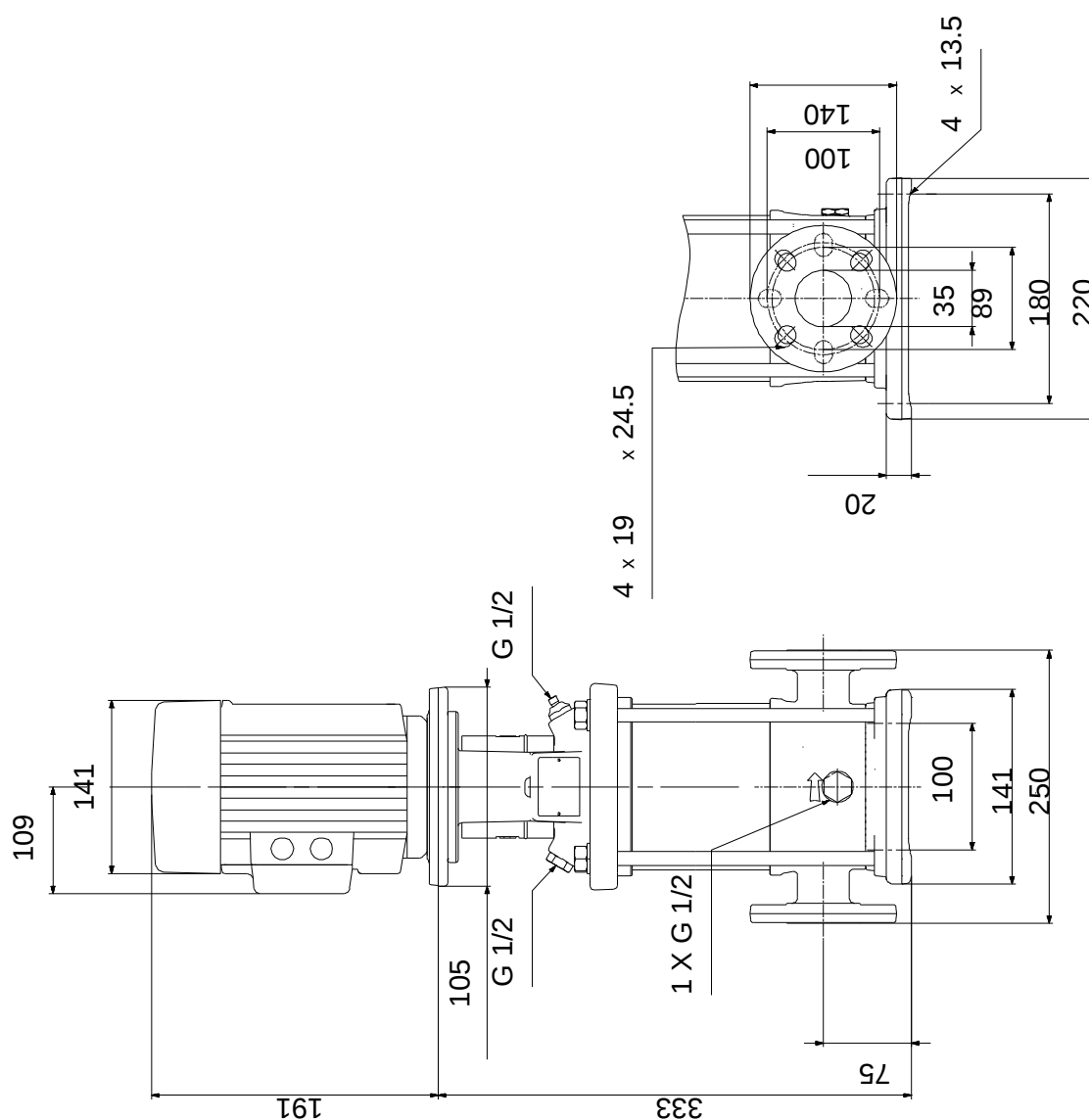
14/02/2019

Description	Value
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	2.50/1.44 A
Starting current:	580-620 %
Cos phi - power factor:	0.80-0.70
Rated speed:	2830-2850 rpm
Efficiency:	IE3 77,8%
Motor efficiency at full load:	77.8 %
Motor efficiency at 3/4 load:	81.5 %
Motor efficiency at 1/2 load:	79.5 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85805103
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI %:	0.70
Net weight:	23.8 kg
Gross weight:	26.6 kg
Shipping volume:	0.063 m ³

96516653 CR 3-6 A-FGJ-A-E-HQQE 50 Hz

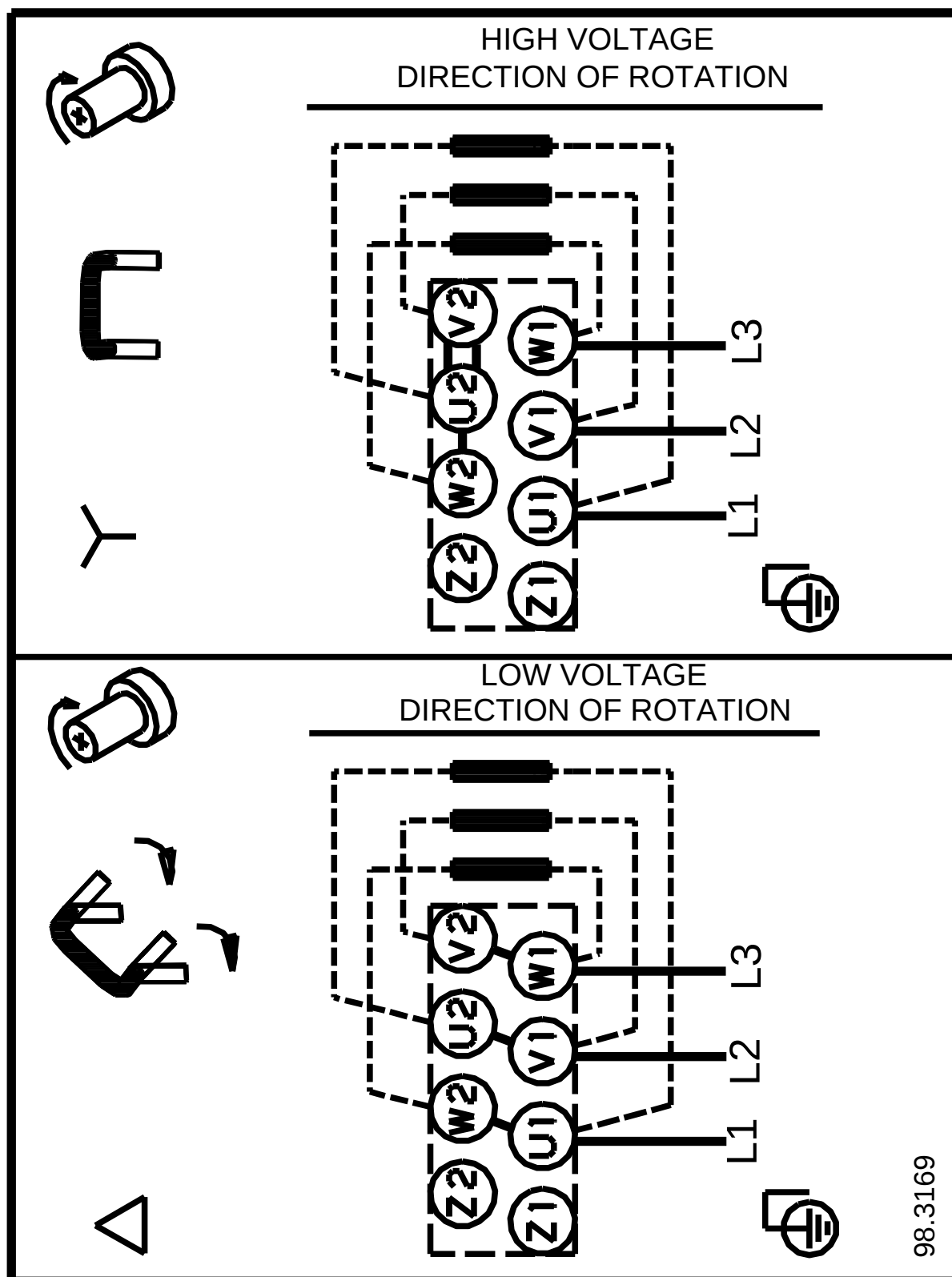


96516653 CR 3-6 A-FGJ-A-E-HQQE 50 Hz



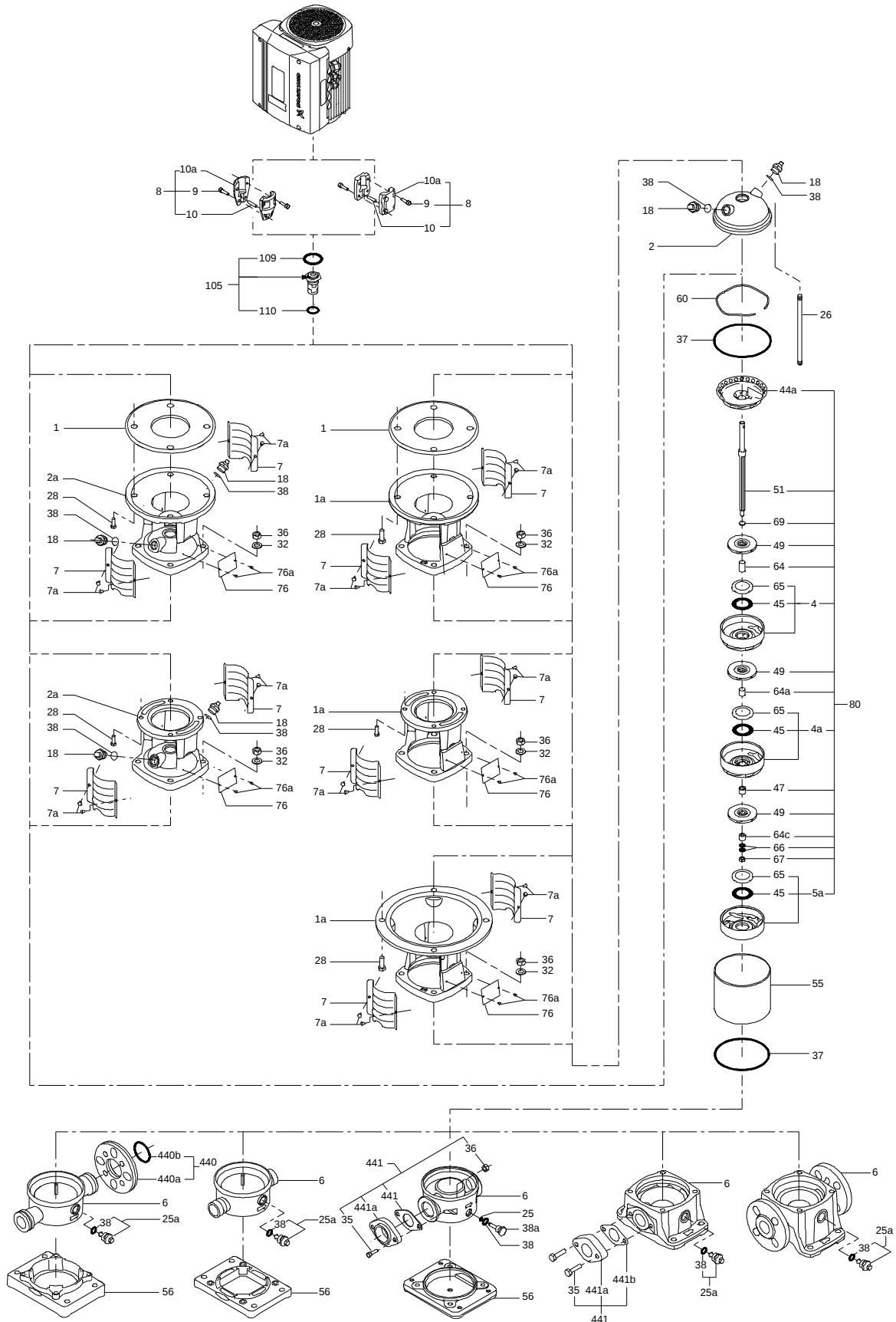
Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

96516653 CR 3-6 A-FGJ-A-E-HQQE 50 Hz

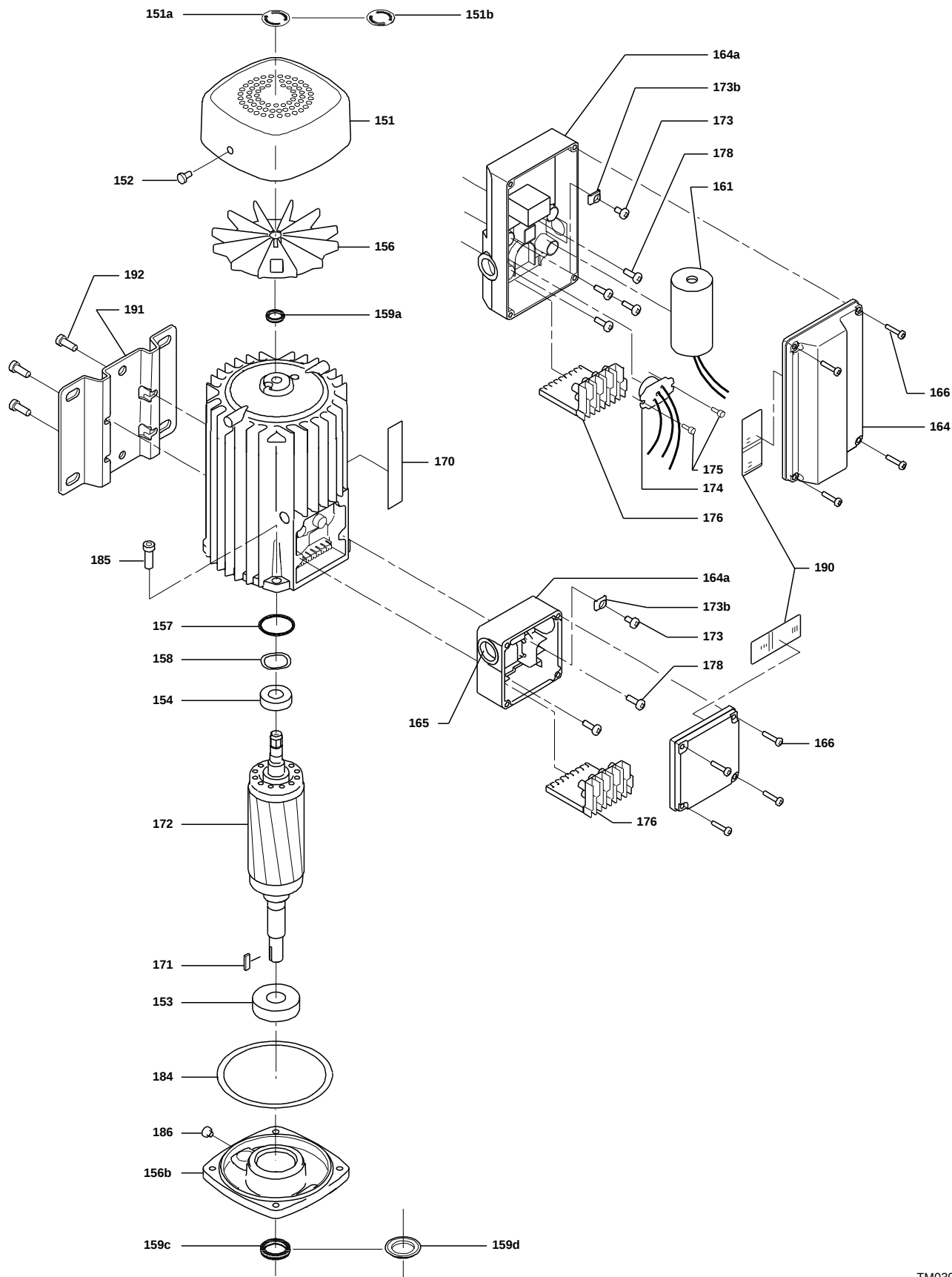


Note! All units are in [mm] unless others are stated.

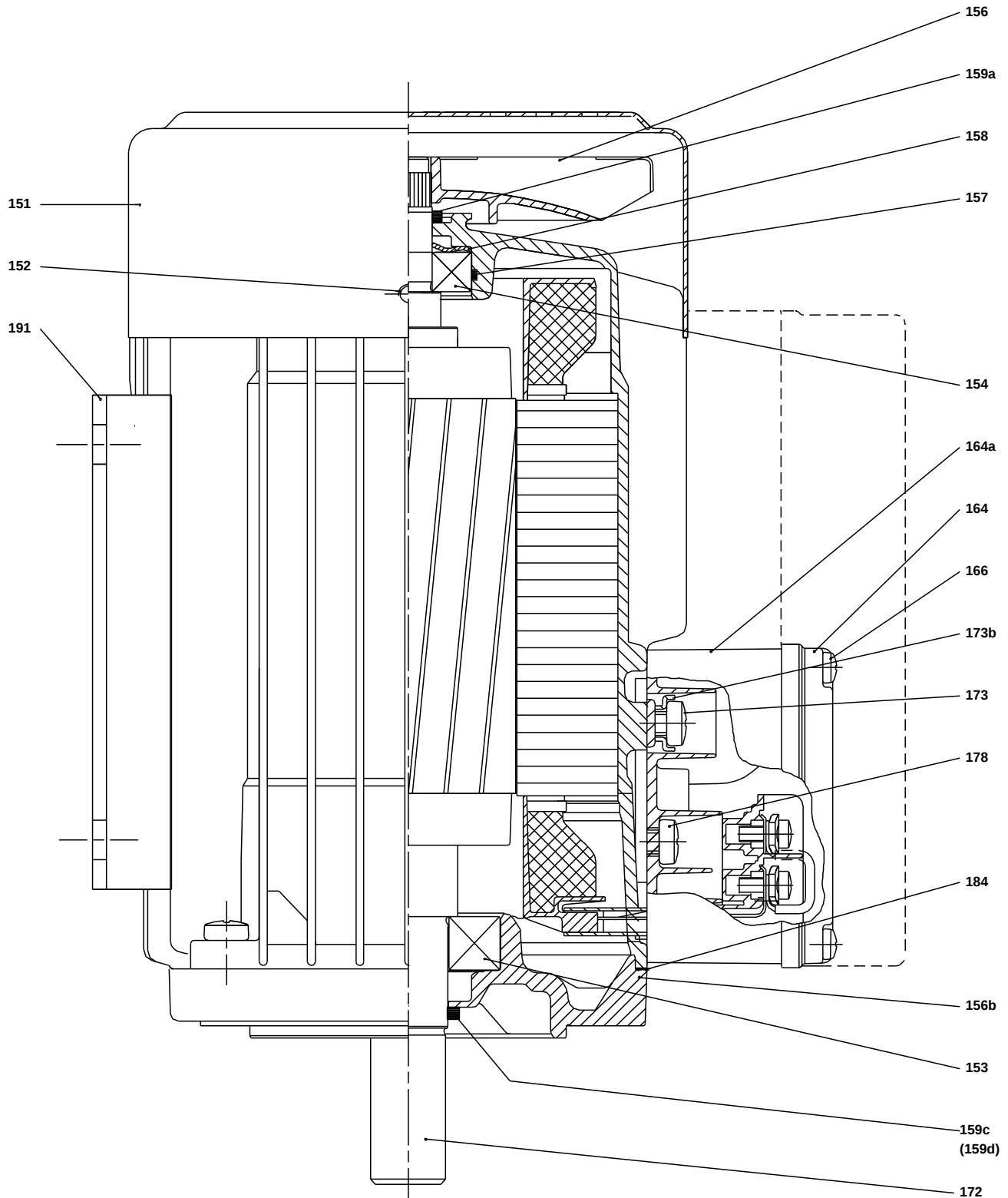
(TM069451 for SMCR standard)



(TM030163 0505)



(TM029177)



TM029177)

Spare parts CR 3-6, Product No. 96516653

Valid from 1.1.2004 (0401)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
- 80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96453533	1	pcs
- 4a	Chamber w. bearing cpl.				1	
	Vane					
	Intermediate chamber					
	Retainer for bearing					
	Guide vane					
45	Neck ring					
47	Bearing bush					
65	Retainer					
65	Retainer					
- 4	Chamber cpl.				4	
	Vane					
	Intermediate chamber					
	Plate					
	Guide vane					
45	Neck ring					
65	Retainer					
65	Retainer					
- 5a	Chamber cpl.				1	
	Vane					
	Intermediate chamber					
45	Neck ring					
65	Retainer					
65	Retainer					
- 44a	Guide vane cpl.				1	
	Plate					
	Guide vane					
50	Top plate					
47	Bearing ring, rotating				1	
49	Impeller cpl.				6	
51	Shaft, spline, cpl.				1	
64d	Spacing pipe		Internal diameter: 12,85		1	
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
64a	Spacing pipe				4	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
-	Kit, coupling			00415060	1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 20			
			Thread: M6			
10a	Coupling half				2	
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
-	Kit, coupling guard			96505130	1	pcs
7.a	Combi Slot Torx screw				4	
7	Coupling guard				2	
-	Kit, gaskets			96455090	1	pcs
37	O-ring				2	
38	O-ring		Diameter: 16,3		1	
			Material type: EPDM			

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	
			Material type: EPDM			
			Thickness: 2,4			
109	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
-	Kit, plug			96505133	1	pcs
- 18	Air vent screw				1	
	Spindle					
	Plug					
23b	Spindle				1	
25	Plug				1	
25	Plug				1	
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	
			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	pcs
+ 105	Shaft seal		Material type: HQQE		1	
-	Kit, wear parts		Material type: SILICON CARBIDE	96455095	1	pcs
- 4a	Chamber w. bearing cpl.				1	
4a	Intermediate chamber					
45	Neck ring					
65	Neck ring retainer					
45	Neck ring				8	
47	Bearing ring, rotating				1	
64d	Spacing pipe		Internal diameter: 12,85		1	
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
65	Neck ring retainer				8	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
441b	Gasket				2	
-	Motor			85900328	1	pcs
-	Kit, Ball bearing			96279730	1	
111	Ball bearing		Designation: 6204.2Z.C3.SYN			
111	Ball bearing					
157	O-ring		Diameter: 32			
			Material type: NBR			
			Thickness: 2			
158	Waved washer					
+	Kit, fan			96279721	1	
+	Kit, fan cover			96279720	1	
-	Kit, flange			96279727	1	
156b	Flange					
159c	Seal ring					
184	Gasket		Internal diameter: 114,80			

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
			Outer diameter: 121,20			
			Thickness: 0,25			
185	Pan head screw					
186	Drain plug					
+	Kit, shaft seal			96279722	1	
-	Kit, terminal box			96279724	1	
152	Pan head thread forming screw					
164a	Terminal box w/gasket					
164	Terminal box cover w/gasket					
173a	Washer		Designation: SQUARE			
			Internal diameter: 5,5			
			Outer diameter: 10X10			
			Thickness: 1,5			
173a	Base					
173	Pan head thread forming screw		Designation: COMBI TORX T25			
173	Pan head screw		Designation: DIN 7985			
175	Pan head screw		Designation: DIN 7985			
176	Terminal cpl.					
6	Base			96588146	1	pcs
10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473	1	pcs
			Length (mm): 26			
- 25a	Drain plug w/bypass valve			96588242	1	pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	1	
			Material type: EPDM			
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	1	
			Material type: EPDM			
			Thickness: 2,4			
26	Bulk, Staybolt (4 pcs)		Length (mm): 133	96536220	4	pcs
			Thread: M12			
26	Staybolt		Length (mm): 133	98986253	4	pcs
			Thread: M12			
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			
55	Outer sleeve			98811254	1	pcs
+ 105	Bulk, Shaft seal (15 pcs)		Material type: HQQE	96983415	1	pcs