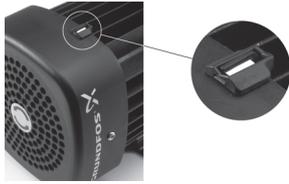


**CM3-5 A-R-I-E-AQQE F-A-A-N**  
Grundfos pump 96961052



Position	Qty.	Description
	1	<p data-bbox="320 163 568 194"><b>CM3-5 A-R-I-E-AQQE</b></p>  <p data-bbox="320 483 600 515">Product No.: On request</p> <p data-bbox="320 544 1453 647">Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. Pump materials in contact with the liquid are in stainless steel. The mechanical shaft seal is a special designed, unbalanced O-ring seal. Pipework connection is via internal Whitworth pipe threads, Rp (ISO 7/1).</p> <p data-bbox="320 685 1214 716">The pump is fitted with a 3-phase, foot-mounted, fan-cooled asynchronous motor.</p> <p data-bbox="320 777 639 808"><b>Further product details</b></p> <p data-bbox="320 810 1445 864">Pump and motor are integrated in a compact and user-friendly design. The pump is fitted to a low base plate, making it ideal for installation in systems where compactness is important.</p> <p data-bbox="320 869 1382 922">The state-of-the-art design and materials of the shaft seal ensure high wear resistance, improved sticking and dry-running capabilities and long operating life.</p> <p data-bbox="320 927 1426 981">Servicing the pump requires no special service tools. Service parts are in stock for quick delivery and are available as kits, single parts or bulk. Service videos are available on <a href="http://www.youtube.com">www.youtube.com</a>.</p> <p data-bbox="320 1014 400 1046"><b>Pump</b></p> <p data-bbox="320 1048 1458 1151">A combination of a stop ring and a Nord-lock® washer secures a tight and reliable fixation of the impeller spacing pipes to the splined pump shaft. It is possible to remove and fit the hydraulic parts from the pump side. The inlet and outlet port are integrated in the pump sleeve. The inlet part, chambers and discharge part are hold together by four staybolts and a retaining flange.</p> <p data-bbox="320 1189 1458 1243">The pump is fitted with an unbalanced O-ring seal with a rigid torque-transmission system. It has a fixed seal driver ensuring a reliable rotation of all parts. The dynamic secondary seal is an O-ring.</p> <p data-bbox="320 1247 464 1279">Primary seal:</p> <ul data-bbox="357 1281 919 1335" style="list-style-type: none"> <li>• Rotating seal ring material: silicon carbide (SiC)</li> <li>• Stationary seat material: silicon carbide (SiC)</li> </ul> <p data-bbox="320 1339 1426 1393">This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.</p> <p data-bbox="320 1397 986 1429">Secondary seal material: EPDM (ethylene-propylene rubber)</p> <p data-bbox="320 1433 1219 1464">EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p>  <p data-bbox="320 1673 1430 1727">The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be dismantled.</p> <p data-bbox="320 1760 400 1792"><b>Motor</b></p> <p data-bbox="320 1794 1398 1848">The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.</p> <p data-bbox="320 1886 1449 1962">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).</p> <p data-bbox="320 2000 1433 2054">An installation indicator is fitted to the motor fan cover. Based on the motor cooling air, it indicates the direction of rotation of the motor. The motor is fitted with a directional sticker.</p>



## Technical data

### Liquid:

Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>

### Technical:

Rated flow:	3.1 m <sup>3</sup> /h
Rated head:	34.5 m
Primary shaft seal:	AQQE
Approvals on nameplate:	CE,WRAS,ACS,TR,EAC
Curve tolerance:	ISO9906:2012 3B

### Materials:

Pump housing:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Rubber:	EPDM

### Installation:

Maximum ambient temperature:	55 °C
Maximum operating pressure:	10 bar
Max pressure at stated temp:	10 bar / 120 °C
Flange standard:	WHITWORTH THREAD RP
Pump inlet:	Rp 1
Pump outlet:	Rp 1

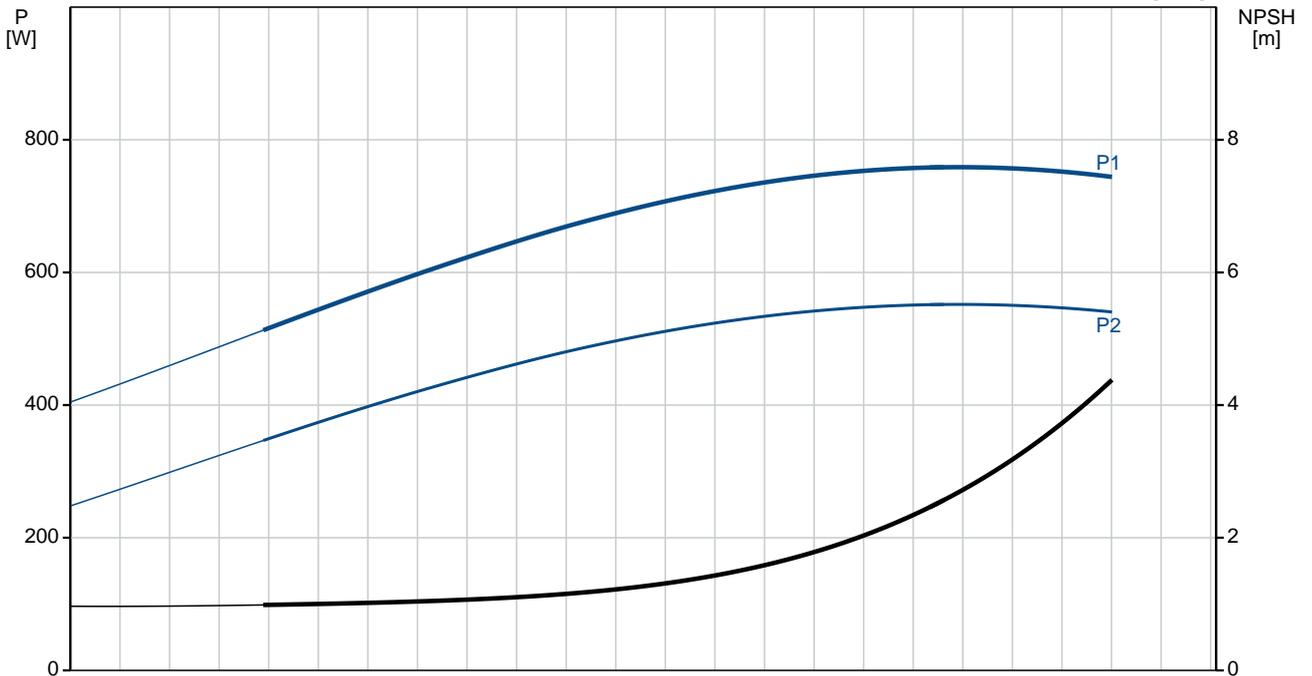
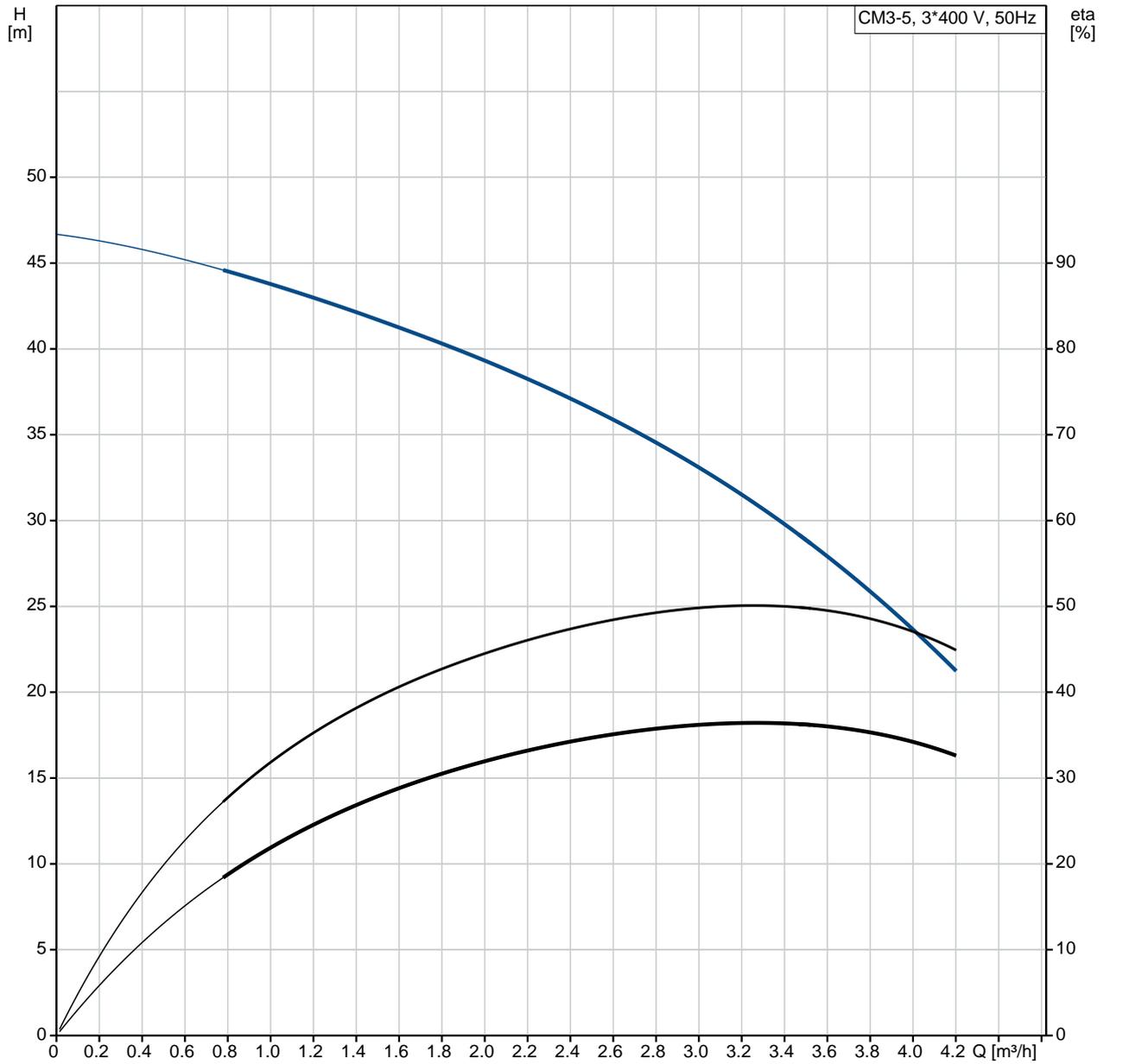
### Electrical data:

Motor type:	71B
Rated power - P2:	0.65 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Service factor:	1
Rated current:	2,8-3,1/1,6-1,8 A
Starting current:	580-620 %
Rated speed:	2770-2820 rpm
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F

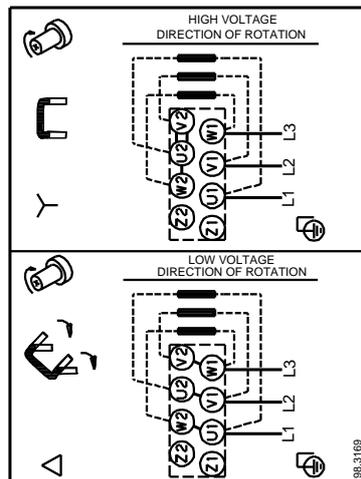
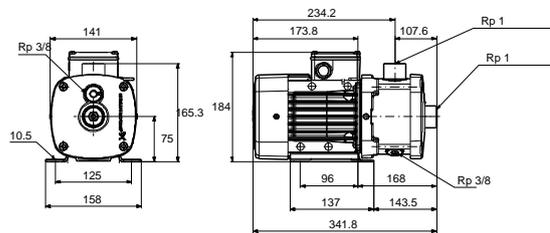
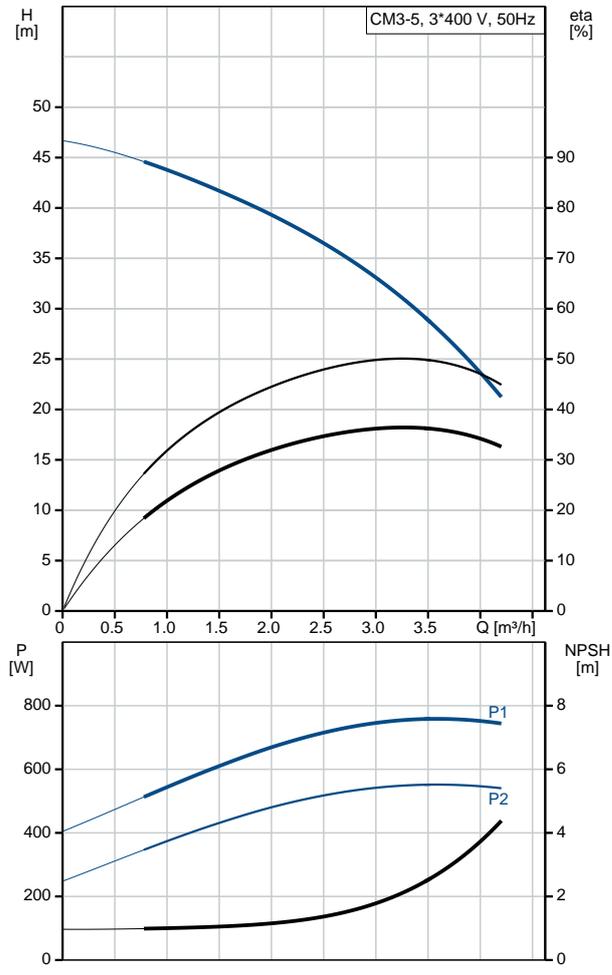
### Others:

Minimum efficiency index, MEI	: 0.7
Net weight:	13.1 kg
Gross weight:	15.6 kg

# On request CM3-5 A-R-I-E-AQQE 50 Hz

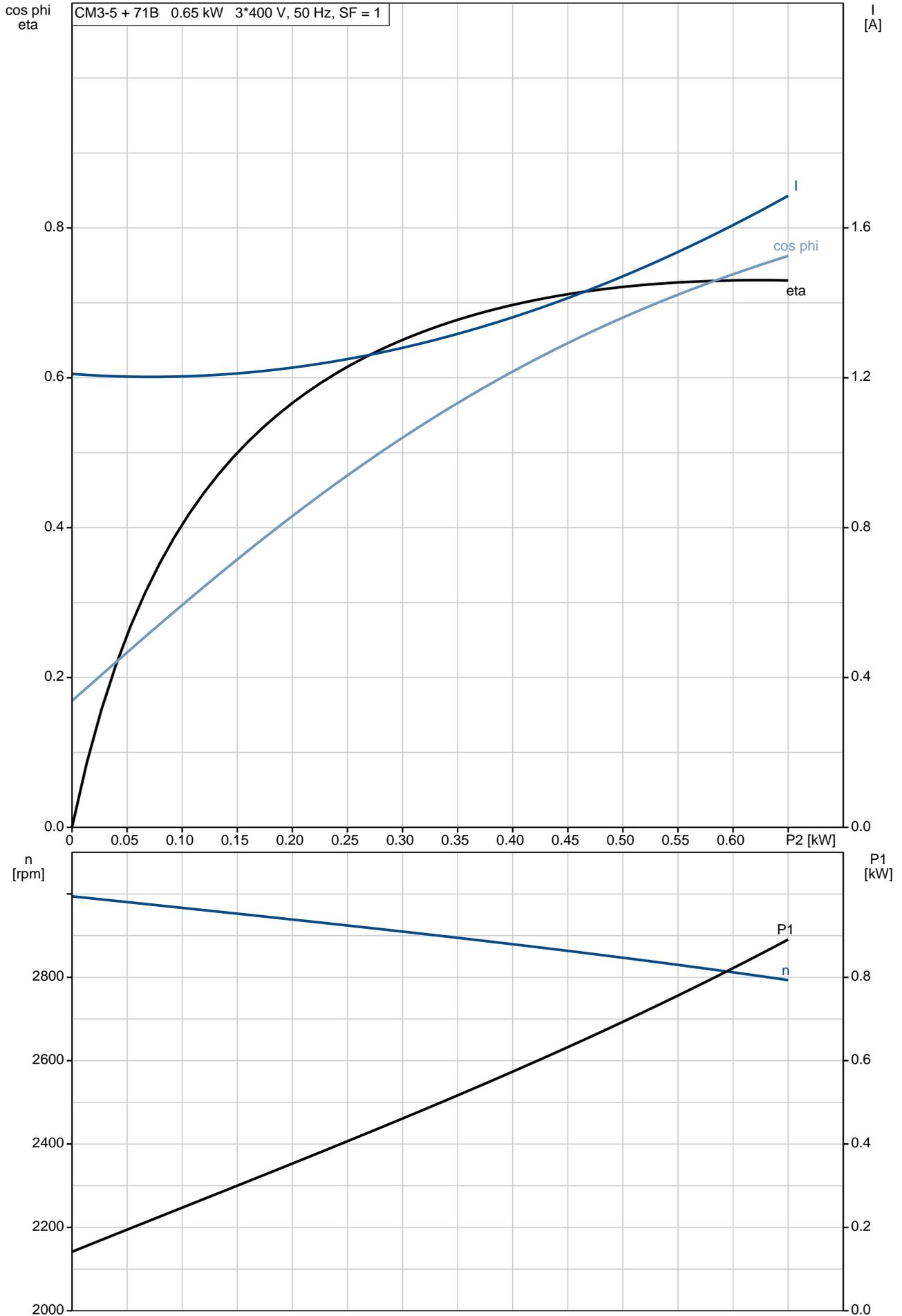


Description	Value
<b>General information:</b>	
Product name:	CM3-5 A-R-I-E-AQQE
Product No:	On request
EAN number:	On request
<b>Technical:</b>	
Rated flow:	3.1 m <sup>3</sup> /h
Rated head:	34.5 m
Impellers:	5
Primary shaft seal:	AQQE
Approvals on nameplate:	CE,WRAS,ACS,TR,EAC
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	I
Rubber:	EPDM
Code for rubber:	E
<b>Installation:</b>	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	10 bar
Max pressure at stated temp:	10 bar / 120 °C
Flange standard:	WHITWORTH THREAD RP
Pump inlet:	Rp 1
Pump outlet:	Rp 1
Connect code:	R
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	71B
Rated power - P2:	0.65 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415V V
Service factor:	1
Rated current:	2,8-3,1/1,6-1,8 A
Starting current:	580-620 %
Rated speed:	2770-2820 rpm
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	NO
<b>Others:</b>	
Minimum efficiency index, MEI :	0.7
Net weight:	13.1 kg
Gross weight:	15.6 kg

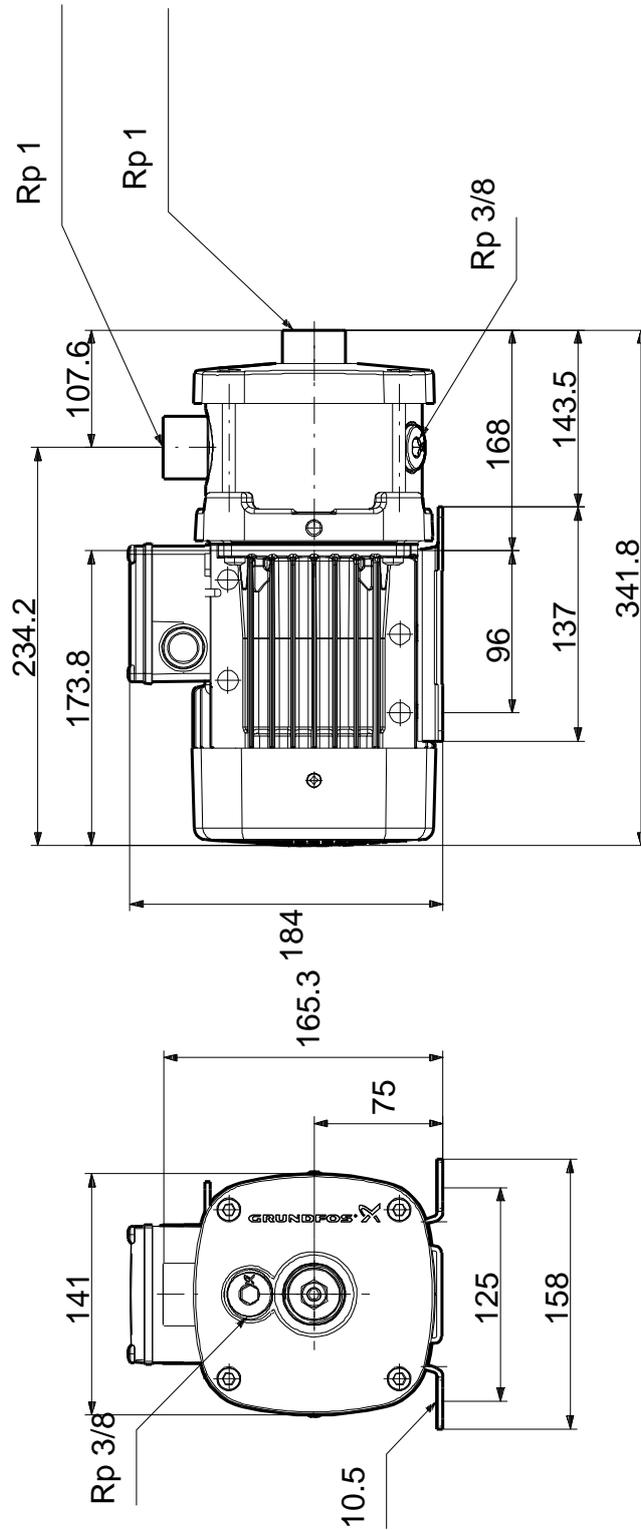


# On request CM3-5 A-R-I-E-AQQE 50 Hz

CM3-5 + 71B 0.65 kW 3\*400 V, 50 Hz, SF = 1

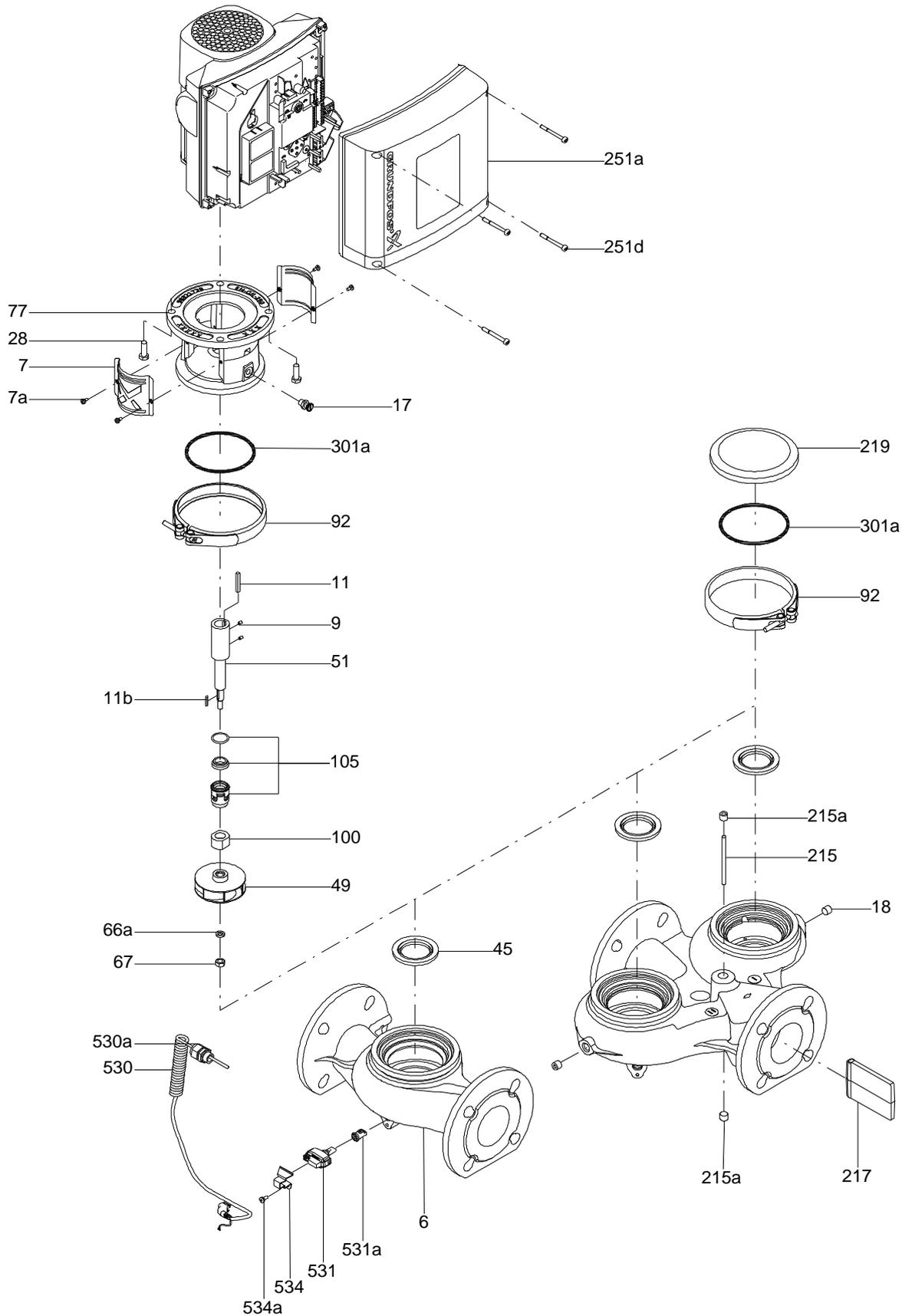


# On request CM3-5 A-R-I-E-AQQE 50 Hz

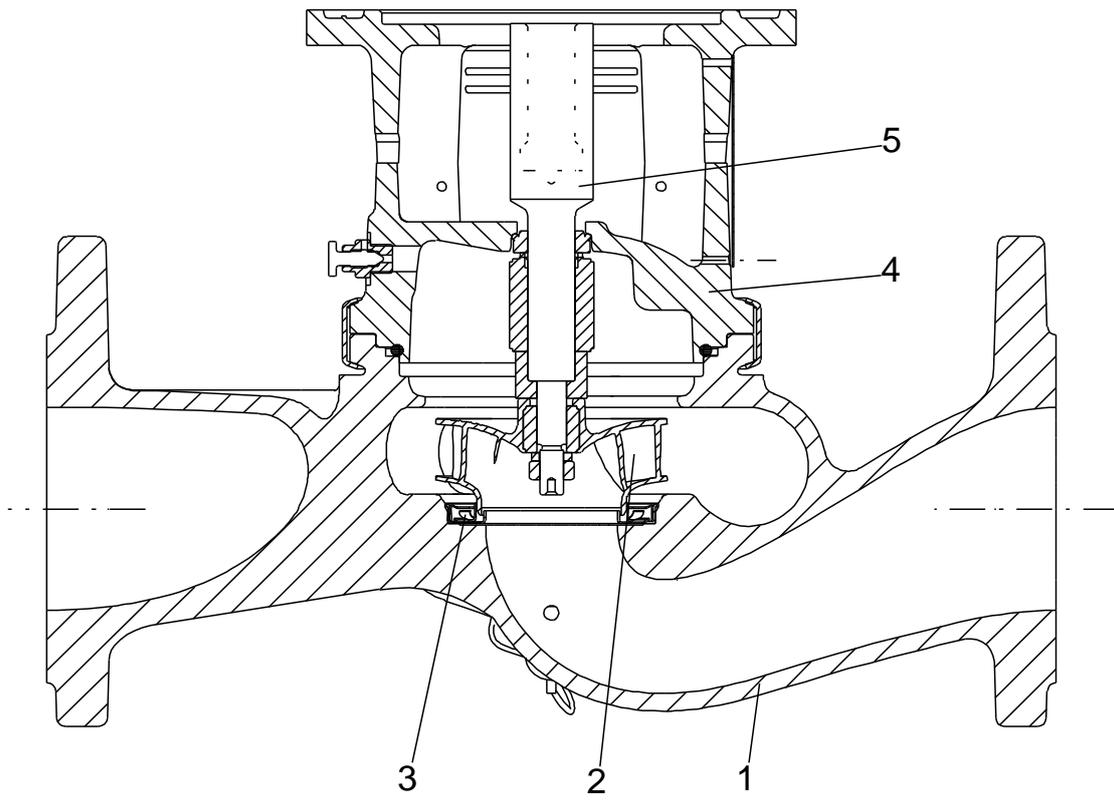


Note! All units are in [mm] unless others are stated.  
 Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

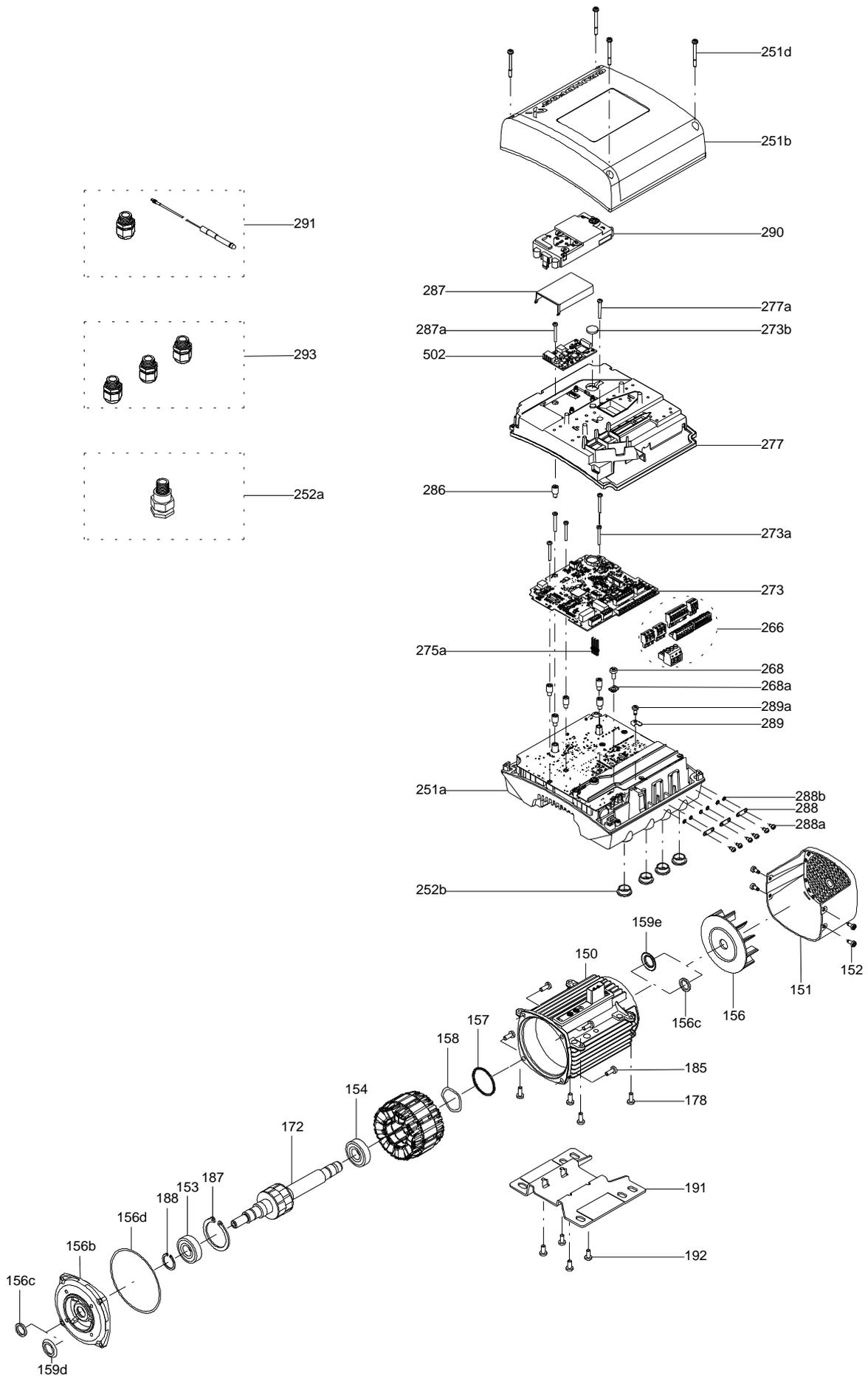


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

**Exploded view ( TM057026 for MGE model H/I )**



**Parts list CM3-5, Product No. On request**  
**Valid from 9.2.2009 (0907)**

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
	MG71B				1	pcs
	Cross recess countersunk screw				4	pcs
- 4	Chamber cpl.				3	pcs
	Guide vane				6	
	Plate				1	
	Retainer				1	
	Intermediate chamber				1	
	Vane				1	
45	Neck ring				1	
65	Retainer				1	
- 4.d	Chamber cpl.				1	pcs
	Chamber				1	
	Retainer for seal ring				1	
	Guide vane				6	
	Plate				1	
	Vane				1	
45	Neck ring				1	
65	Neck ring retainer				1	
- 5a	Chamber cpl.				1	pcs
	Retainer				1	
	Intermediate chamber				1	
	Vane				1	
45	Neck ring				1	
65	Retainer				1	
6.a	Flange				1	pcs
16	Collar sleeve cpl.				1	pcs
- 25	Drain plug cpl.				2	pcs
11	O-ring		Diameter: 18,5 Material type: EPDM Thickness: 2		1	
25	Plug				1	
31	O-ring		Diameter: 114 Material type: EPDM Thickness: 3,9		1	pcs
- 32	Cover plate				1	pcs
	Cover plate				1	
	Plate				1	
36	Lock nut		Thread: M8		1	pcs
49	Impeller cpl.				5	pcs
51	Pump shaft		Diameter: D12		1	pcs
64	Spacing pipe				4	pcs
64.c	Clamp				1	pcs
66	Wedge lock washer				1	pcs
76	Nameplate				2	pcs
- 105	Shaft seal				1	pcs
102	O-ring		Diameter: 17,86 Material type: EPDM Thickness: 2,62		1	
103	Seal ring, stationary				1	
104	Seal ring, rotating				1	
107	O-ring				1	
108	Compression spring				1	
111	Retainer				1	
112	Driver for shaft seal				1	
111.a	Stop ring				1	pcs
151	Fan cover				1	pcs
151.a	Installation indicator				1	pcs
152	Pan head thread forming screw				2	pcs
156	Fan				1	pcs

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
181	Hex socket head cap screw		Length (mm): 115 Thread: M8		4	pcs
191	Base plate				1	pcs