

## CM3-6 S-R-I-E-AQQE C-A-A-N Grundfos pump 98482150





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<https://www.lenntech.com/grundfos/CMSP0/98482150/CM3-6-S-R-I-E-AQQE.html>

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Position	Qty.	Description
	1	<p data-bbox="320 163 568 197"><b>CM3-6 S-R-I-E-AQQE</b></p>  <p data-bbox="320 483 600 517">Product No.: On request</p> <p data-bbox="320 544 1453 667">Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. The pump is self-priming and can create a suction lift of up to 4 m metres. 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="320 712 1214 745">The pump is fitted with a 1-phase, foot-mounted, fan-cooled asynchronous motor.</p> <p data-bbox="320 801 639 835"><b>Further product details</b></p> <p data-bbox="320 840 1445 891">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="320 896 1129 929">The pump can create a suction lift of 4 m metres in less than five minutes.</p> <p data-bbox="320 934 1433 985">Compared to other self-priming pumps, the CM pump offers lower noise level, higher reliability as well as compactness and customised solutions.</p> <p data-bbox="320 990 1294 1041">The pump is made of stainless-steel components (EN 1.4301 / AISI 304) and is therefore corrosion-proof.</p> <p data-bbox="320 1046 1382 1097">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 1102 1426 1153">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 1187 403 1220"><b>Pump</b></p> <p data-bbox="320 1225 1458 1326">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 1370 1458 1422">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 1426 467 1460">Primary seal:</p> <ul data-bbox="357 1464 919 1516" 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 1520 1426 1572">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 1576 986 1610">Secondary seal material: EPDM (ethylene-propylene rubber)</p> <p data-bbox="320 1615 1219 1648">EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p>  <p data-bbox="320 1850 1430 1901">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 1935 403 1968"><b>Motor</b></p> <p data-bbox="320 1973 1398 2024">The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.</p>

The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

## Technical data

### Liquid:

Pumped liquid: Water  
Liquid temperature range: 0 .. 60 °C  
Liquid temperature during operation: 20 °C  
Density: 998.2 kg/m<sup>3</sup>

### Technical:

Rated flow: 3 m<sup>3</sup>/h  
Rated head: 42.1 m  
Primary shaft seal: AQQE  
Approvals on nameplate: CE,WRAS,ACS,TR,EAC  
Curve tolerance: ISO9906:2012 3B  
Self-priming: 4 m

### 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 / 60 °C  
Flange standard: WHITWORTH THREAD RP  
Pump inlet: Rp 1  
Pump outlet: Rp 1

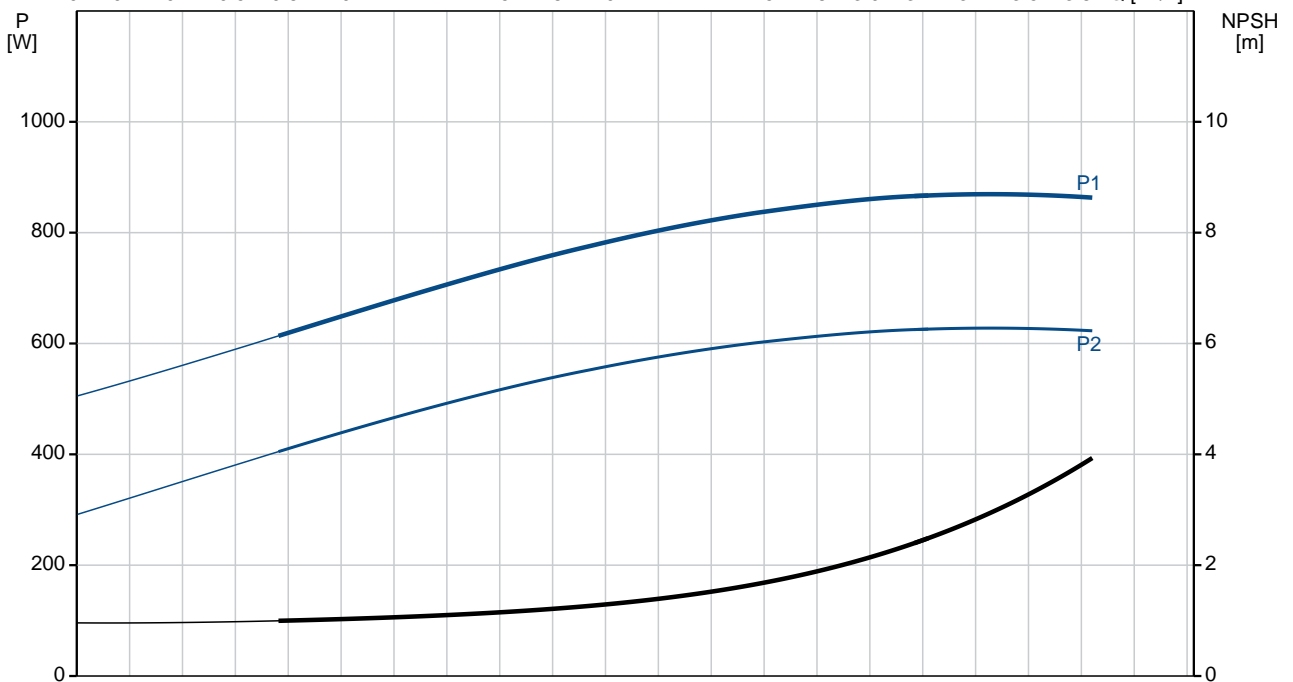
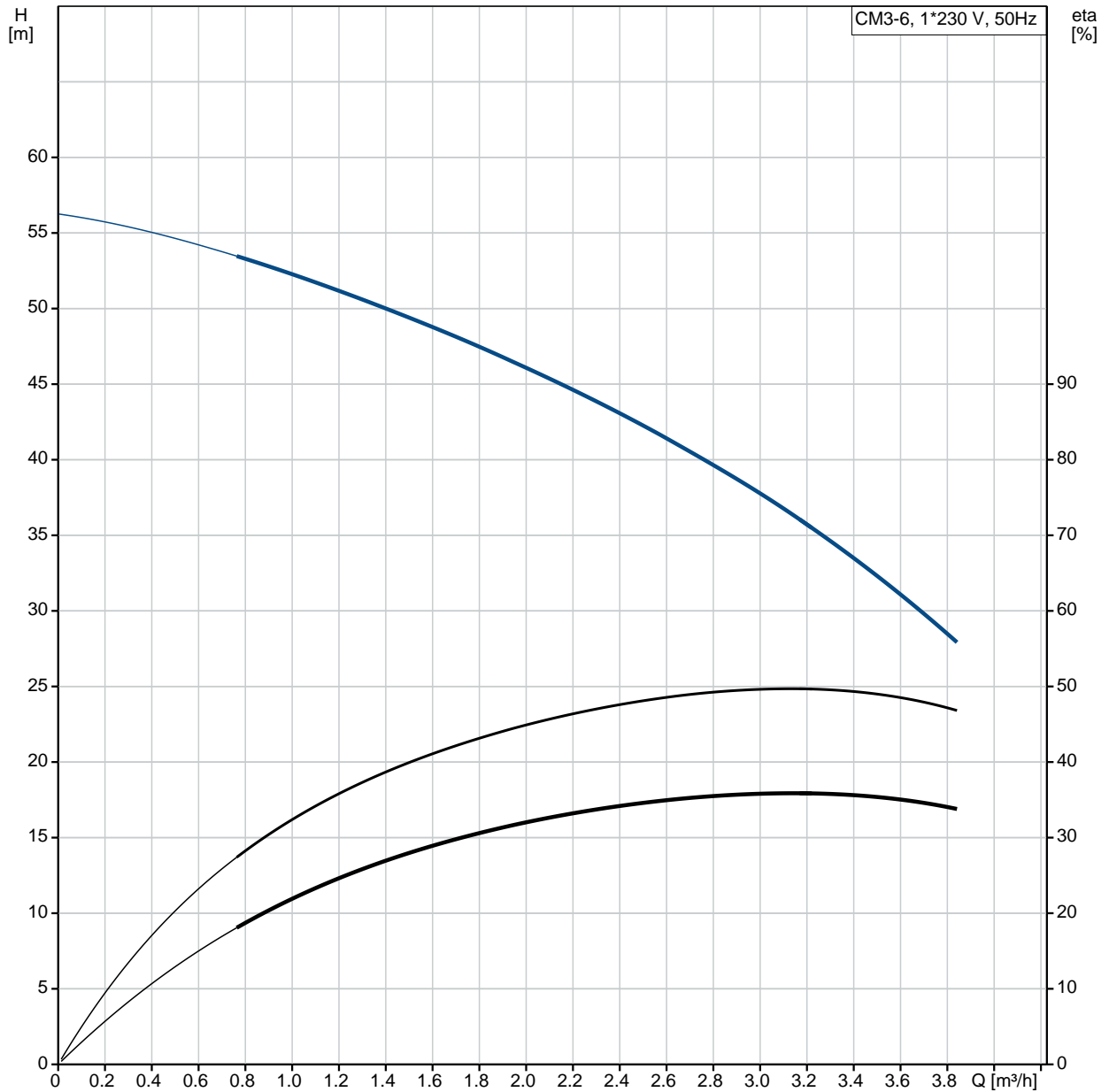
### Electrical data:

Motor type: 80A  
Rated power - P2: 0.67 kW  
Mains frequency: 50 Hz  
Rated voltage: 1 x 220-240 V  
Service factor: 1  
Rated current: 4.4-4.0 A  
Starting current: 390 %  
Rated speed: 2720-2800 rpm  
Enclosure class (IEC 34-5): IP55  
Insulation class (IEC 85): F

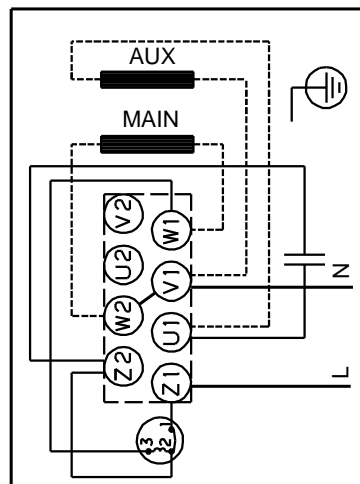
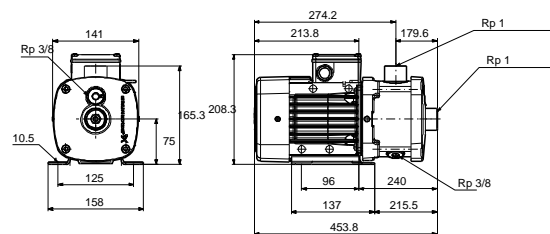
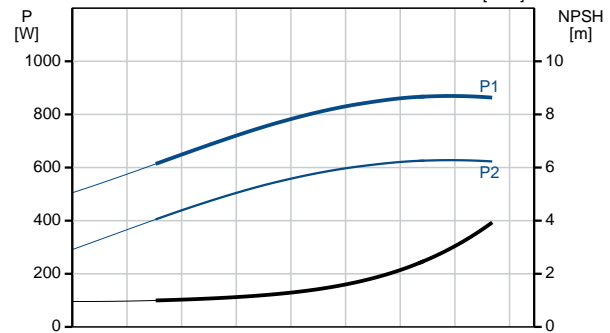
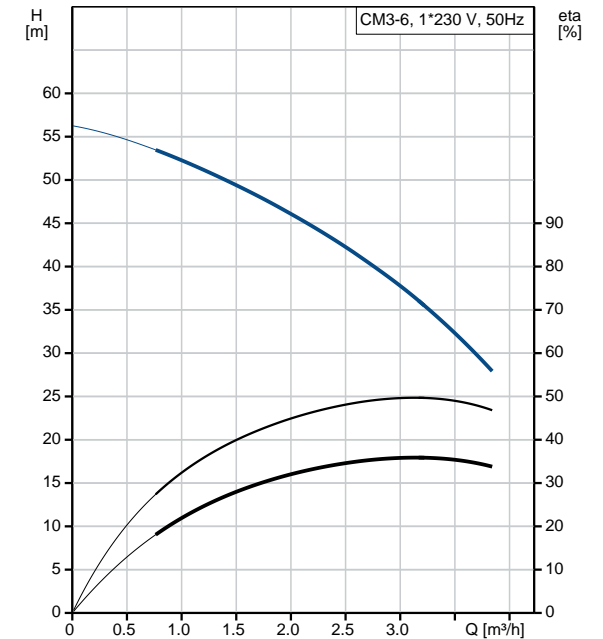
### Others:

Minimum efficiency index, MEI : 0.7  
Net weight: 16.2 kg  
Gross weight: 18.7 kg

# On request CM3-6 S-R-I-E-AQQE 50 Hz

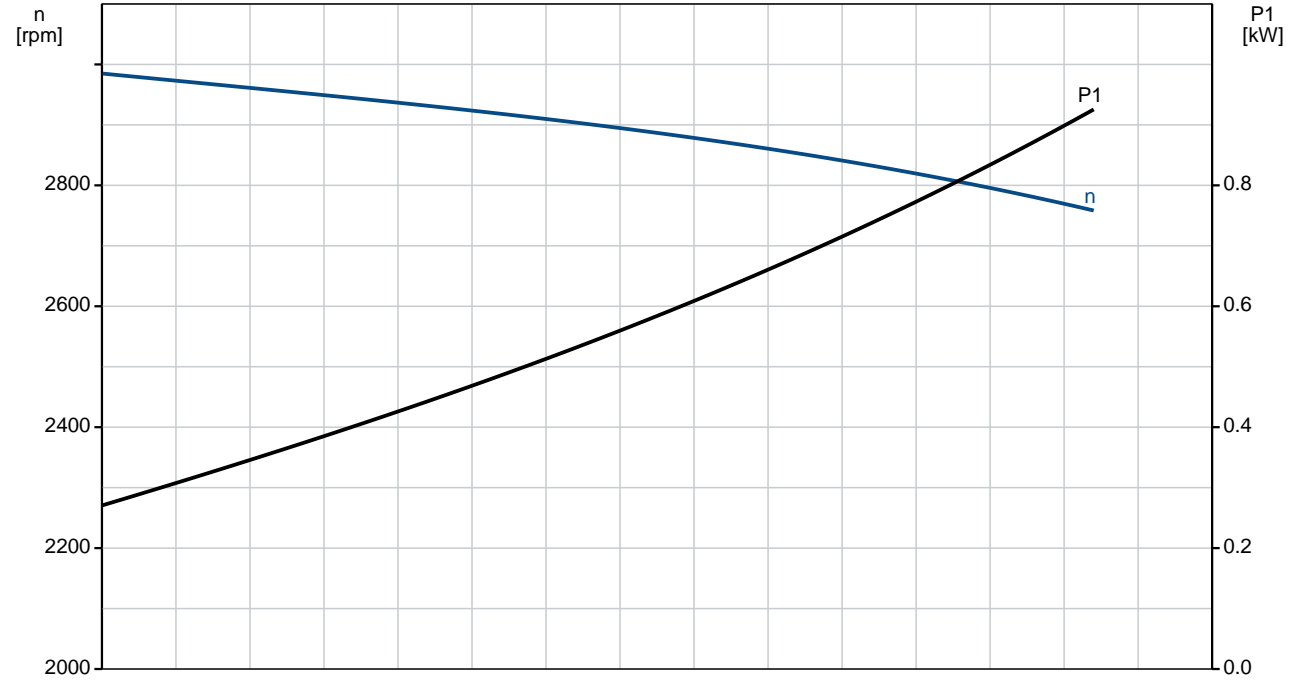
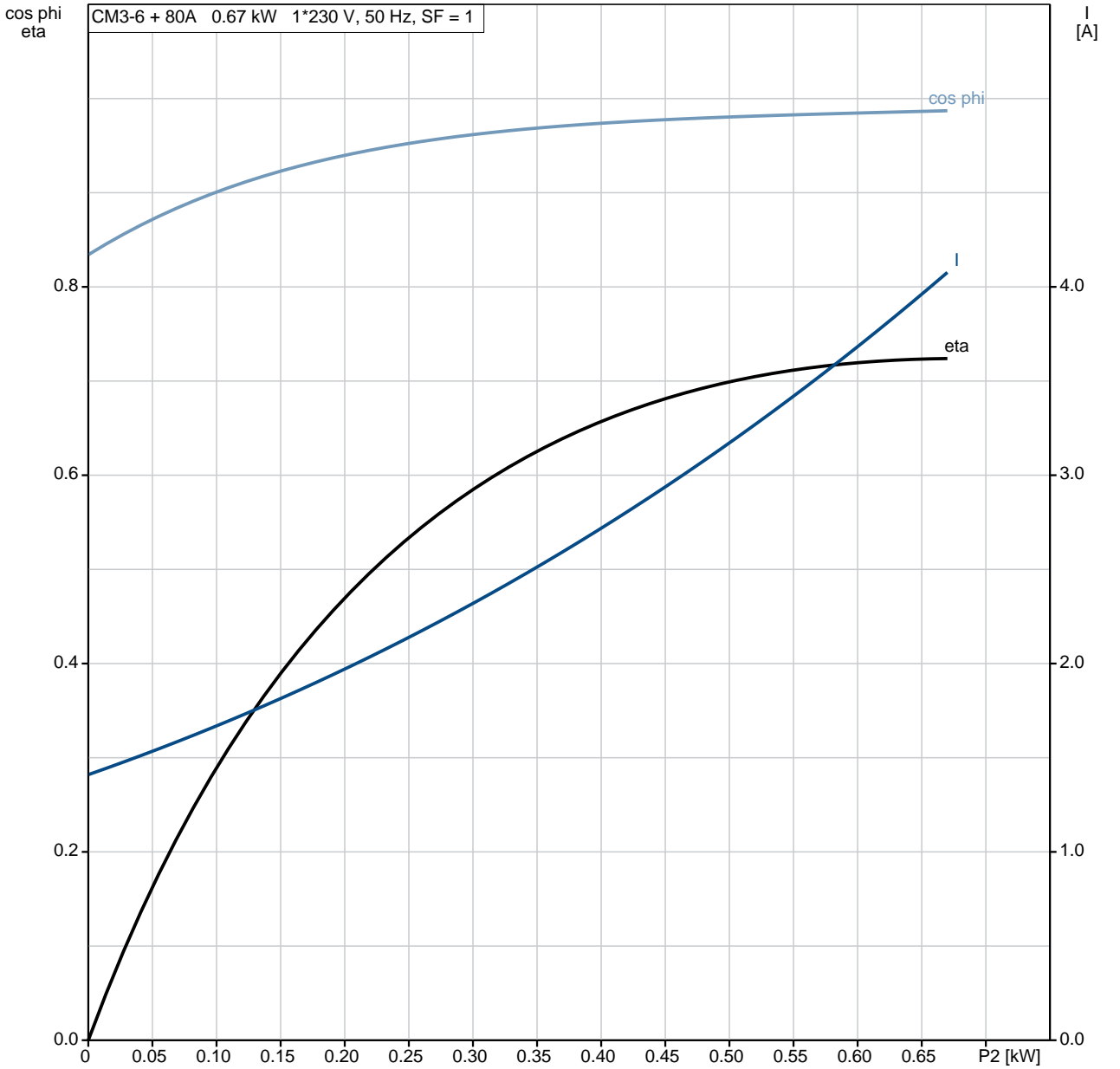


Description	Value
<b>General information:</b>	
Product name:	CM3-6 S-R-I-E-AQQE
Product No:	On request
EAN number:	On request
<b>Technical:</b>	
Rated flow:	3 m <sup>3</sup> /h
Rated head:	42.1 m
Impellers:	6
Primary shaft seal:	AQQE
Approvals on nameplate:	CE,WRAS,ACS,TR,EAC
Curve tolerance:	ISO9906:2012 3B
Pump version:	S
Model:	A
Self-priming:	4 m
<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 / 60 °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:	0 .. 60 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	80A
Rated power - P2:	0.67 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 220-240 V
Service factor:	1
Rated current:	4.4-4.0 A
Starting current:	390 %
Rated speed:	2720-2800 rpm
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	TP211
<b>Others:</b>	
Minimum efficiency index, MEI :	0.7
Net weight:	16.2 kg
Gross weight:	18.7 kg

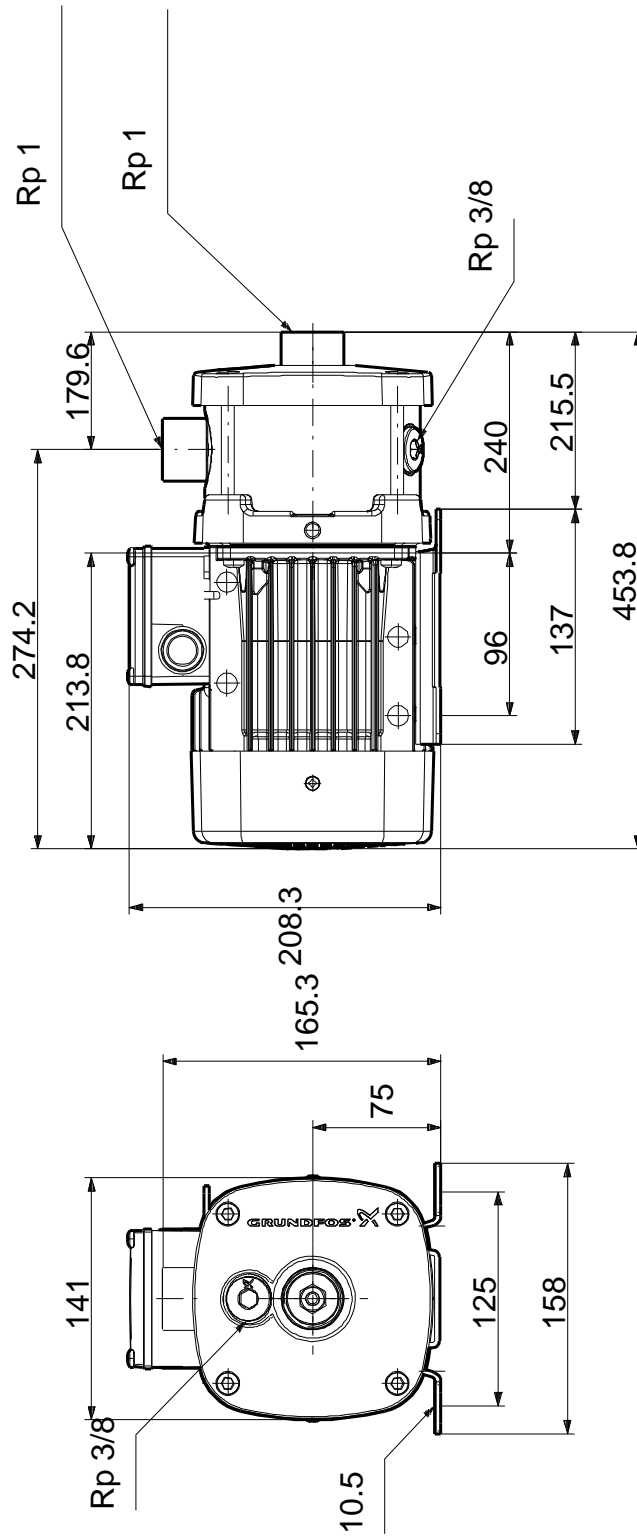


# On request CM3-6 S-R-I-E-AQQE 50 Hz

CM3-6 + 80A 0.67 kW 1\*230 V, 50 Hz, SF = 1

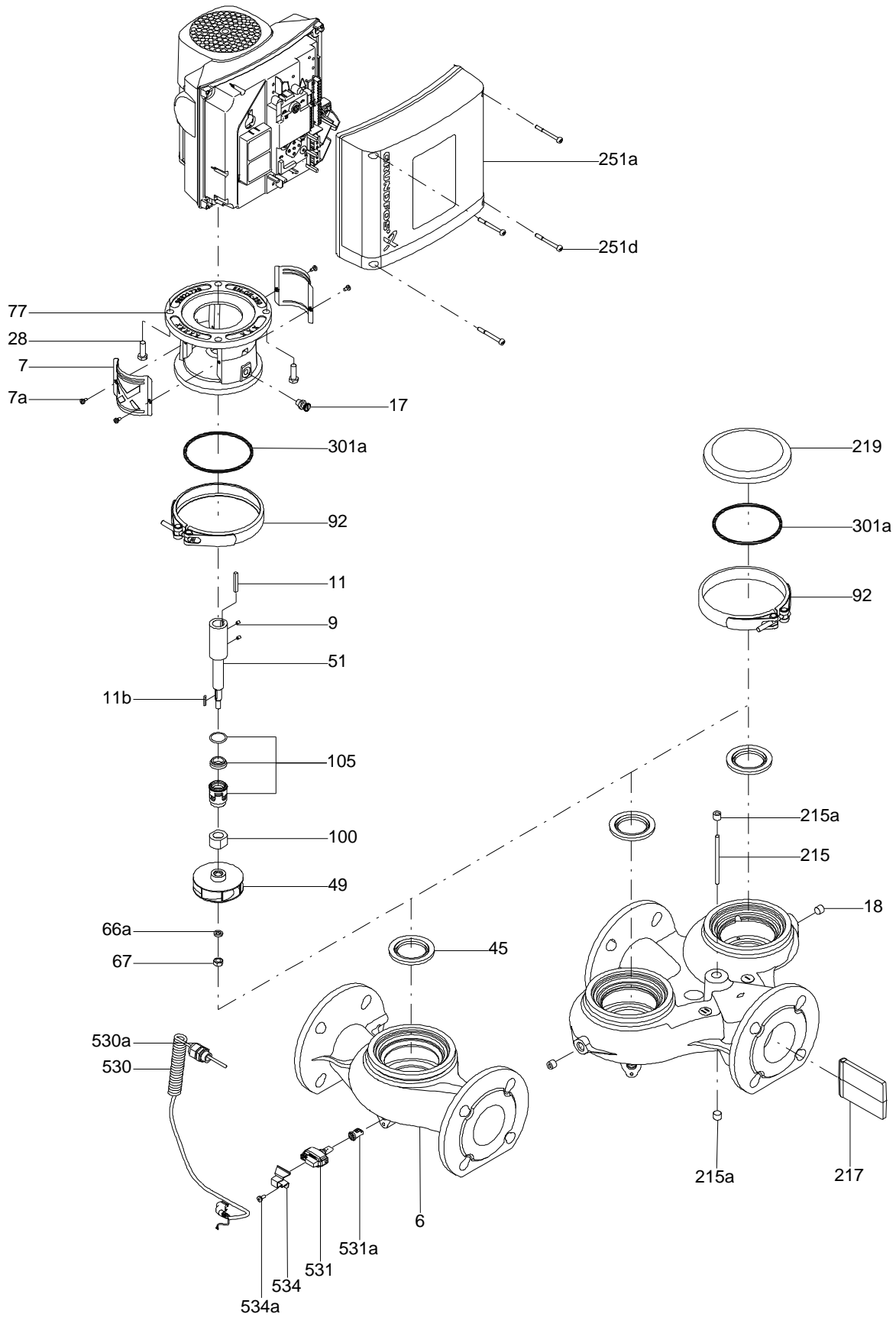


# On request CM3-6 S-R-I-E-AQQE 50 Hz



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

**Exploded view**



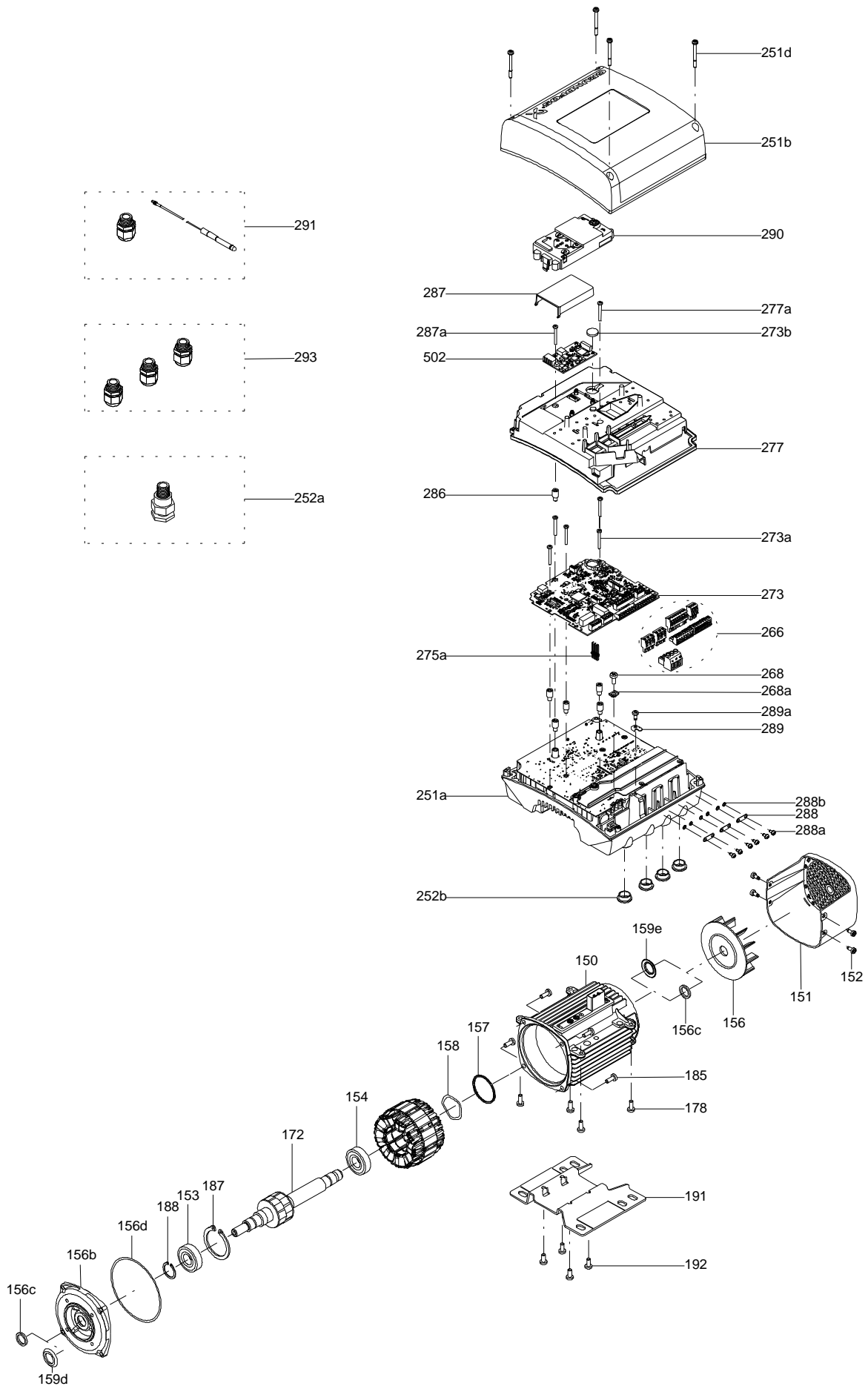


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view ( TM057026 for MGE model H/I )



**Parts list CM3-6, Product No. On request**  
**Valid from 10.9.2013 (1337)**

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
-	Chamber cpl.				1	pcs
4e	Chamber				1	
5d	Base				1	
5e	Spring				1	
-	Container				1	pcs
64f	Rubber seal				1	
64g	Container				1	
-	MG80A				1	pcs
	Jumper				1	
alt. 1.1	Stator				1	
alt. 1.2	Stator				1	
28	Pan head screw				4	
51	Shaft w/rotor				1	
79	Gasket				1	
150	Stator housing				1	
152	Pan head thread forming screw				4	
154	Ball bearing				1	
154	Ball bearing		Designation: 6204.2Z.C3.SYN		1	
155	Bearing cover				1	
156b	Motor flange				1	
156d	Gasket		Internal diameter: 114,80 Outer diameter: 121,20 Thickness: 0,25		1	
158	Waved washer				1	
158.a	O-ring				1	
159	O-ring		Diameter: 32 Material type: NBR Thickness: 2		1	
159a	Seal ring				1	
161	Capacitor				1	
164	Terminal box cover w/gasket				1	
164a	Terminal box w/gasket				1	
166	Pan head screw				4	
173	Pan head thread forming screw		Designation: COMBI TORX T25		1	
173a	Base				1	
174	Protector cpl.				1	
176	Terminal				1	
	Cross recess countersunk screw				4	pcs
- 4	Chamber cpl.				5	pcs
	Guide vane				6	
	Plate				1	
	Retainer				1	
	Intermediate chamber				1	
	Vane				1	
45	Neck ring				1	
65	Retainer				1	
- 4d	Chamber cpl.				1	pcs
	Chamber cpl.				1	
	Guide plate				1	
4f	Chamber, empty				2	pcs
5b	Water trap				1	pcs
5c	O-ring				1	pcs
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	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
26	Hex socket head cap screw		Length (mm): 185 Thread: M8		4	pcs
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
64a	Spacing pipe		Length (mm): 13.00		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
152	Pan head thread forming screw				2	pcs
156	Fan				1	pcs
191	Base plate				1	pcs

*Disclaimer: The information about the Grundfos pump in this document may be outdated.*

*Data may be subject to alterations without further notice.*

*Please contact us to verify the data above is still accurate/up-to-date.*

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