

CM5-3 S-R-I-E-AQQE C-A-A-N Grundfos pump 98482179



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https://www.lenntech.com/grundfos/CMSP0/98482179/CM5-3-S-R-I-E-AQQE.html

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Position	Qty.	Description
	1	CM5-3 S-R-I-E-AQQE
		Product No.: On request
		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).
		The pump is fitted with a 1-phase, foot-mounted, fan-cooled asynchronous motor.
		Further and date its
		Further product details 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.
		The pump can create a suction lift of 4 m metres in less than five minutes. Compared to other self-priming pumps, the CM pump offers lower noise level, higher reliability as well
		as compactness and customised solutions. The pump is made of stainless-steel components (EN 1.4301 / AISI 304) and is therefore
		corrosion-proof.
		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.
		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 www.youtube.com.
		Pump
		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.
		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.
		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.
		A second the resistance to not water. Et binns not suitable for minieral ons.
		The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be dismantled.
		Motor
		The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.

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:WaterPumped liquid:WaterLiquid temperature range:0 .. 60 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³

Technical:

Rated flow: Rated head: Primary shaft seal: Approvals on nameplate: Curve tolerance: Self-priming: 4.7 m³/h 22.1 m AQQE CE,WRAS,ACS,TR,EAC ISO9906:2012 3B 4 m

Stainless steel

Stainless steel DIN W.-Nr. 1.4301

AISI 304

AISI 304

EPDM

DIN W.-Nr. 1.4301

Materials:

Pump housing:

Impeller:

Rubber:

Installation

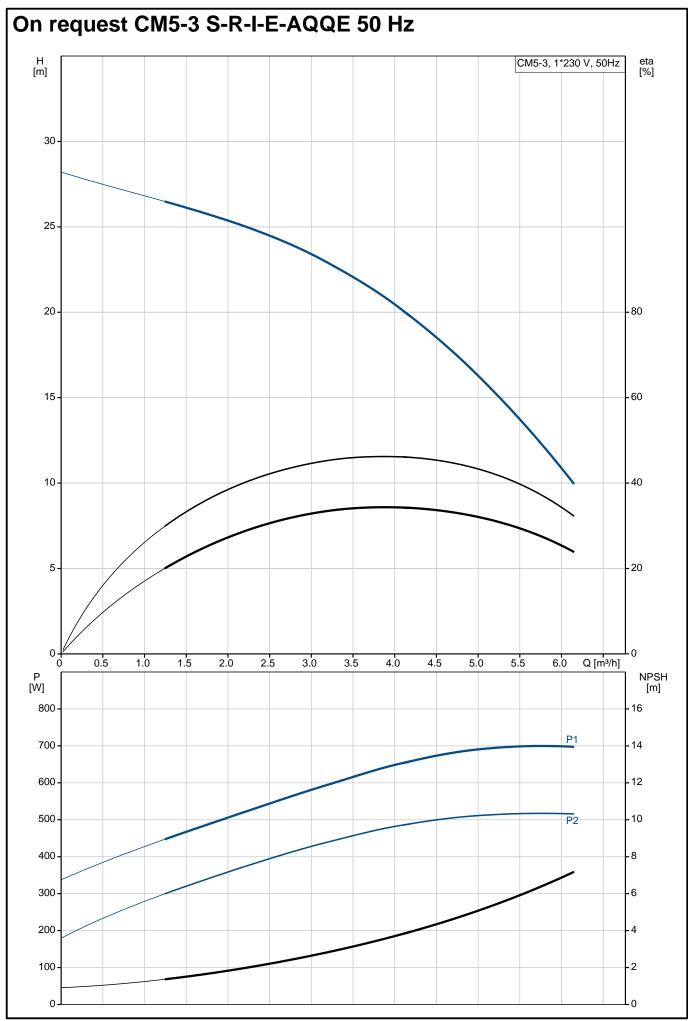
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	10 bar
Max pressure at stated temp:	10 bar / 60 °C
Flange standard:	WHITWORTH THREAD RP
Pump inlet:	Rp 1
Pump outlet:	Rp 1

Electrical data:

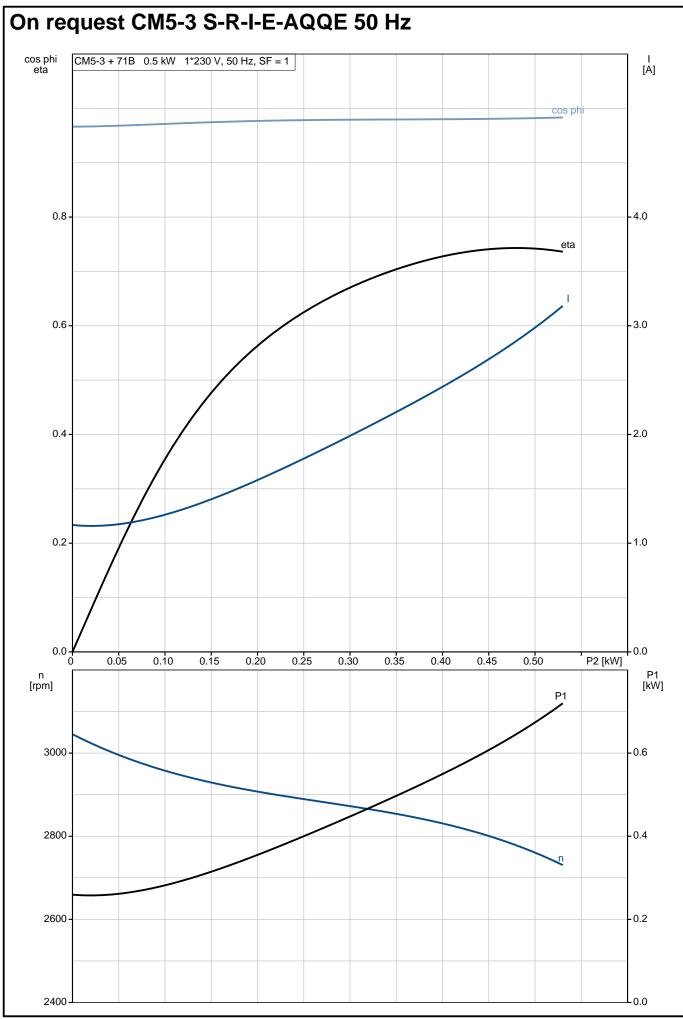
Motor type:	71B
Rated power - P2:	0.5 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 220-240 V
Service factor:	1
Rated current:	3.1-2.8 A
Starting current:	530 %
Rated speed:	2730-2740 rpm
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F

Others:

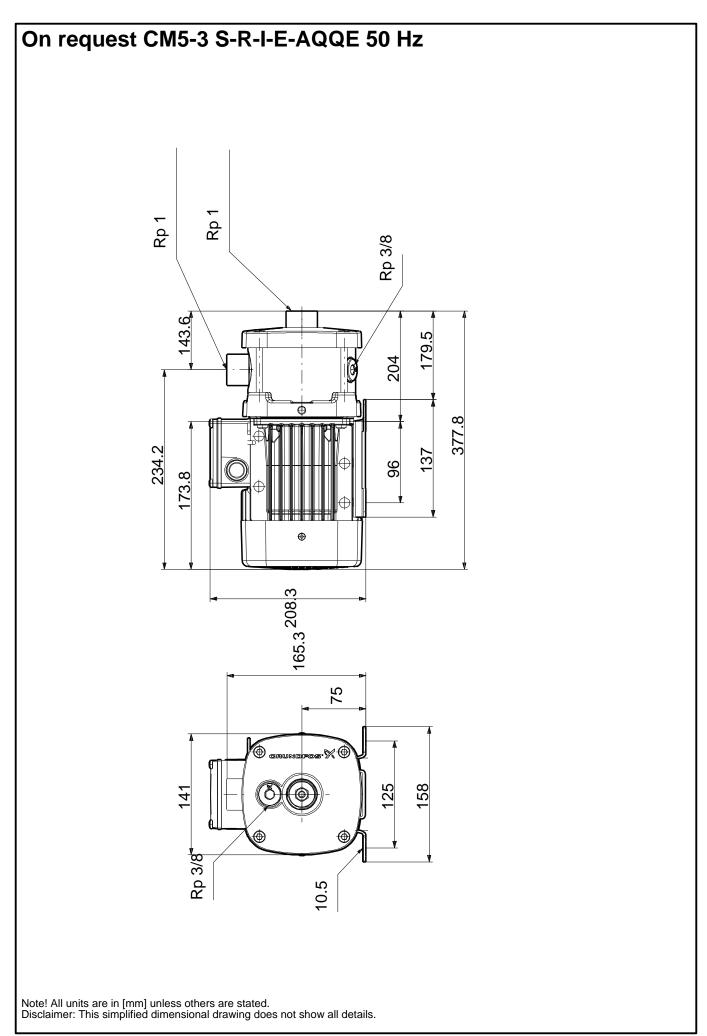
Minimum efficiency index, MEI	: 0.7
Net weight:	13.8 kg
Gross weight:	16.3 kg

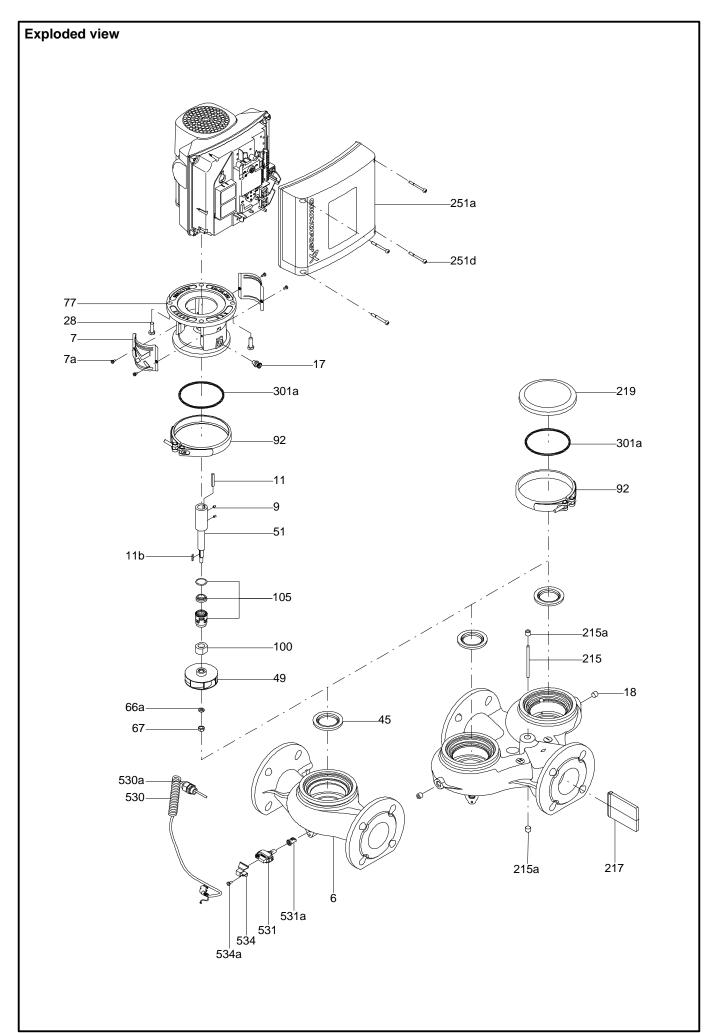


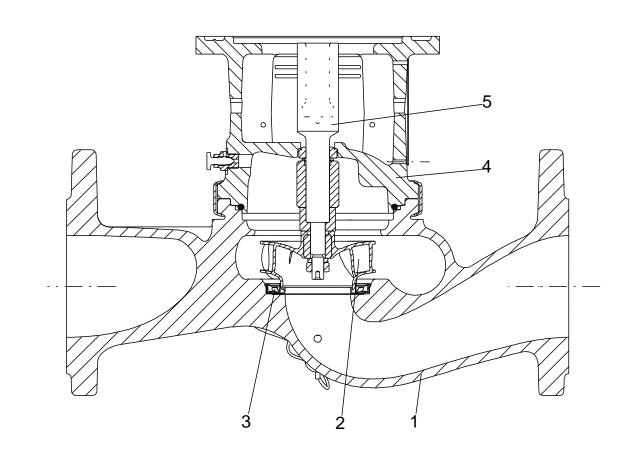
Description	Value	H [m]		CM5-3, 1*230 V, 50Hz	eta [%]
General information:					
Product name:	CM5-3 S-R-I-E-AQQE	30 -			
Product No:	On request				
EAN number:	On request				
	On request	25			
Technical:	4	23			
Rated flow:	4.7 m³/h				
Rated head:	22.1 m				
Impellers:	3	20 -			- 80
Primary shaft seal:	AQQE				
Approvals on nameplate:	CE,WRAS,ACS,TR,EAC				
Curve tolerance:	ISO9906:2012 3B	15 -			- 60
Pump version:	S				
Model:	A				
Self-priming:	4 m	10-			- 40
Materials:					
	Stainless steel				
Pump housing:		5-			- 20
	DIN WNr. 1.4301				
	AISI 304				
Impeller:	Stainless steel	0			Lο
	DIN WNr. 1.4301	0 0.5 1.5 P	2.5 3.5	4.5 5.5 Q [m³/h]	NPSH
	AISI 304	[Ŵ]			[m]
Material code:	1			P1	Γ
Rubber:	EPDM	700 -			- 14
Code for rubber:	E	600 -			- 12
Installation:		500 -		P2	10
Maximum ambient temperature:	55 °C	400 -			-8
Maximum operating pressure:	10 bar	- / /			
		300 -			-6
Max pressure at stated temp:	10 bar / 60 °C	200 -			4
Flange standard:	WHITWORTH THREAD RP	100 -			-2
Pump inlet:	Rp 1				
Pump outlet:	Rp 1	0			- 0
Connect code:	R				
Liquid:					
Pumped liquid:	Water				
Liquid temperature range:	0 60 °C	141	173.8	143.6 Rp 1	
Liquid temperature during operation:	20 °C	Rp 3/8			1
Density:	998.2 kg/m ³				
Electrical data:	555.2 kg/m		65.3 208.3		
Motor type:	71B				
Rated power - P2:	0.5 kW	125		96 204 Rp 3/8	
Mains frequency:	50 Hz	e 150 e	I=	137 179.5 377.8	
Rated voltage:	1 x 220-240 V		1		
Service factor:	1				
Rated current:	3.1-2.8 A				
Starting current:	530 %				
Rated speed:	2730-2740 rpm				
Enclosure class (IEC 34-5):	IP55				
Insulation class (IEC 85):	F				
Motor protec:	TP211				
Others:					
	0.7	AUX	7		
Minimum efficiency index, MEI :	0.7	l	- İ		
Net weight:	13.8 kg	↓ <u>↓</u>			
Gross weight:	16.3 kg		****		
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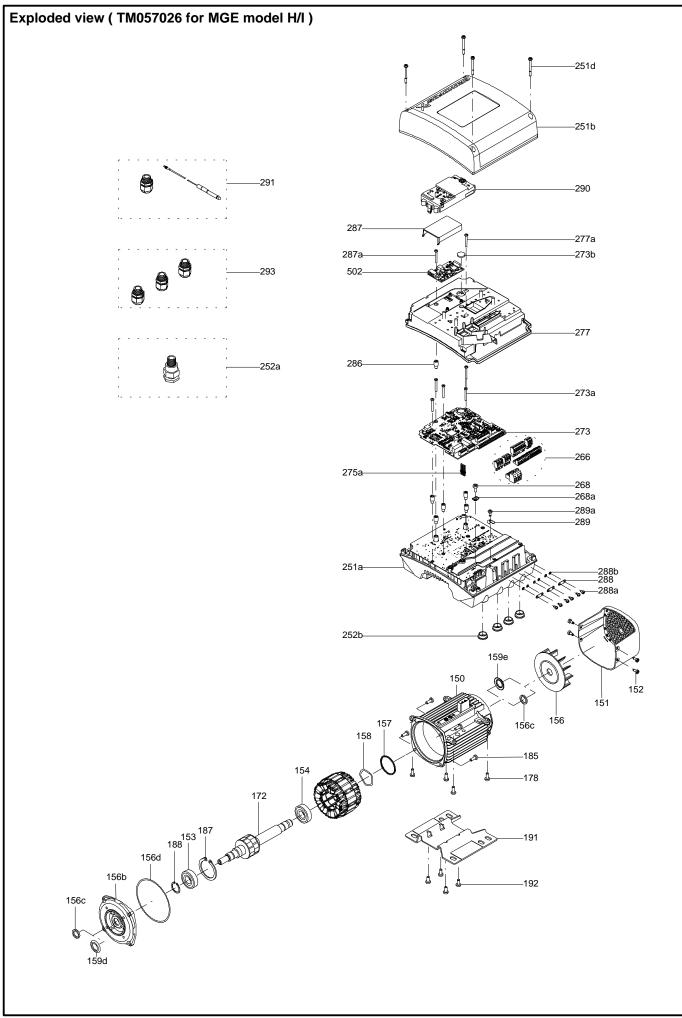
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TM058200



Parts list CM5-3, Product No. On request Valid from 10.9.2013 (1337)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unit
10	Chamber cpl. Chamber				1	pcs
4e					1	
5d	Base				1	
5e	Spring				1	
	Container				1	pcs
64f	Rubber seal				1	
64g	Container				1	
	MG71B				1	pcs
	Jumper				1	
	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	1	
155	Bearing cover				1	
156b	Motor flange				1	
156d	Gasket		Internal diameter: 114,80		1	
			Outer diameter: 121,20		-	
			Thickness: 0,25			
158	Waved washer				1	
158.a	O-ring				1	
159	O-ring		Diameter: 32		1	
100	0 mg		Material type: NBR		•	
			Thickness: 2			
159a	Seal ring		THICKIESS. Z		1	
161	Capacitor cpl.				1	
164	Terminal box cover w/gasket				1	
164a					1	
164a	Terminal box w/gasket Pan head screw					
				05	4	
173	Pan head thread forming screw		Designation: COMBI TORX T	25	1	
173a	Base				1	
176	Terminal				1	
	Cross recess countersunk screw				4	pcs
4	Chamber cpl.				2	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		1	P00
	C mig		Material type: EPDM		I	
			Thickness: 2			
	Plug		1110N11033. Z		1	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
26	Hex socket head cap screw		Length (mm): 150		4	pcs
			Thread: M8			
31	O-ring		Diameter: 114		1	pcs
			Material type: EPDM			
			Thickness: 3,9			
- 32	Cover plate				1	pcs
	Cover plate				1	
	Plate				1	
36	Lock nut		Thread: M8		1	pcs
49	Impeller cpl.				2	pcs
51	Pump shaft		Diameter: D12		1	pcs
64	Spacing pipe				1	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		1	
			Material type: EPDM			
			Thickness: 2,62			
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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