

6. Product range

CM, CME

Pump type	50 Hz			60 Hz			Shaft seal			Mains-operated motor						Electronically speed-controlled moto									
	Material			Material						50 Hz	60 Hz			50/60 Hz											
							Voltage [V]	Voltage [V]			Voltage [V]			Voltage [V]											
	Cast iron EN-GJL-200 (CM-A)	Stainless steel EN 1.4301/AISI 304 (CM-I)	Stainless steel EN 1.4401/AISI 316 (CM-G)	Cast iron EN-GJL-200 (CM-A)	Stainless steel EN 1.4301/AISI 304 (CM-I)	Stainless steel EN 1.4401/AISI 316 (CM-G)	AVBE, AVBV	AQQE, AQQV, AQBE, AQBV, AQQK	RUUE, RUUV	1 x 220-240 V (supply voltage C)	3 x 220-240/380-415 V (supply voltage F)	1 x 220 V (supply voltage A)	1 x 115/230 V (supply voltage B/B1) ⁴⁾	1 x 127 V (supply voltage D) ¹⁾	3 x 208-230/440-480 V (supply voltage E/E1) ⁴⁾	3 x 575 V (supply voltage H) ⁵⁾	3 x 220-240/380-415 V, (50 Hz)/ 3 x 220-255/380-440 V, (60 Hz) (supply voltage O)	3 x 380-415 V, (50 Hz)/ 3 x 440-480 V, (60 Hz) (supply voltage J)	3 x 200 V/346 V, (50 Hz) 3 x 200-220/346-380 V, (60 Hz) (supply voltage G)	3 x 400 V, (50/60 Hz) (supply voltage I) ⁵⁾	3 x 200-230 V, 50/60 Hz (supply voltage R)	3 x 208-230 V, 50/60 Hz (supply voltage Q)	3 x 380-500 V, (50/60 Hz) (supply voltage S)	3 x 440-480 V, (50/60 Hz) (supply voltage T)	1 x 200-240 V, (50/60 Hz) (supply voltage U)
CM 1-2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-5	•	•	•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-6	•	•	•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-8	•	•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-9		•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CM 1-10		•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-11		•	•	•	•	•		• ³⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-12		•	•	•	•	•		• ³⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-13		•	•	•	•	•		• ³⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 1-14		•	•	•	•	•		• ³⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-5	•	•	•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-6	•	•	•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-8	•	•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-9		•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-10		•	•	•	•	•	• ²⁾	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-11		•	•	•	•	•		• ³⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-12		•	•	•	•	•		• ³⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-13		•	•	•	•	•		• ³⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
CM 3-14		•	•	•	•	•		• ³⁾	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•

¹⁾ On request.

²⁾ Neither suitable for 60 Hz mains-operated pumps, nor for CME pumps running at 100 % speed.

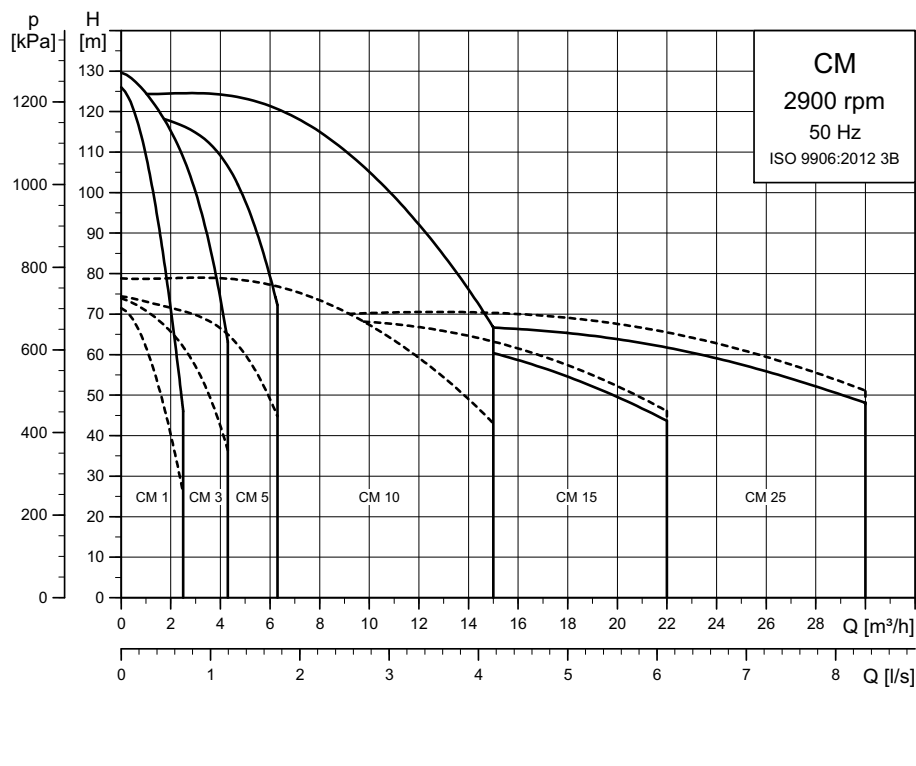
³⁾ Not suitable for pumping liquids at temperatures above 90 °C.

⁴⁾ Pumps with supply voltages B and E are supplied for wire connection without terminal board inside the terminal box (flying wires).
Pumps with supply voltages B1 and E1 are supplied with terminal board inside the terminal box.

⁵⁾ Only available with IE2-compliant motors and cannot be exported to the USA.

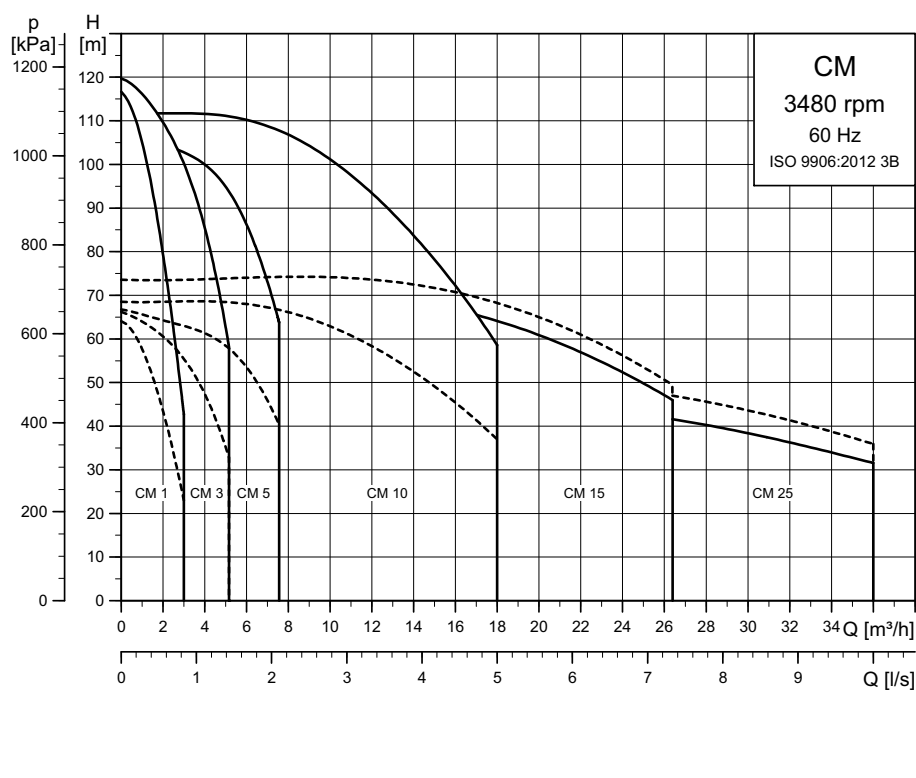
7. Performance range

CM, 50 Hz



TM04 3340 4616

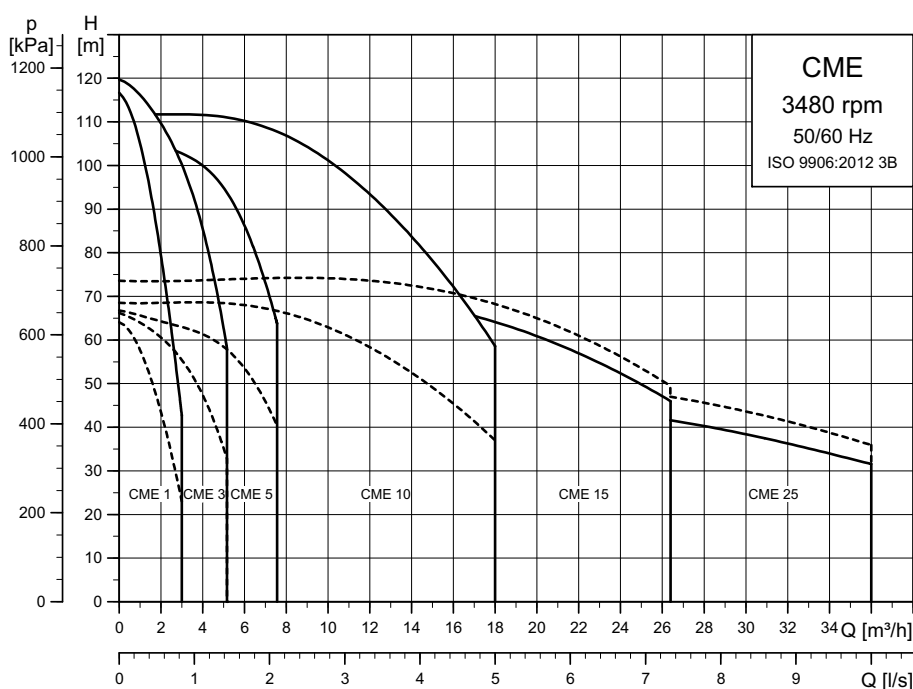
CM, 60 Hz



TM04 3369 4616

CME, 50/60 Hz

Supply voltages S, T, U



TM04 3568 5112

EuP ready

The CM, CME pumps are energy-optimised and comply with the EuP Directive (Commission Regulation (EC) No 547/2012) which has been effective since 1 January 2013. As from this date, all pumps will be classified/graduated in a new energy efficiency index (MEI).

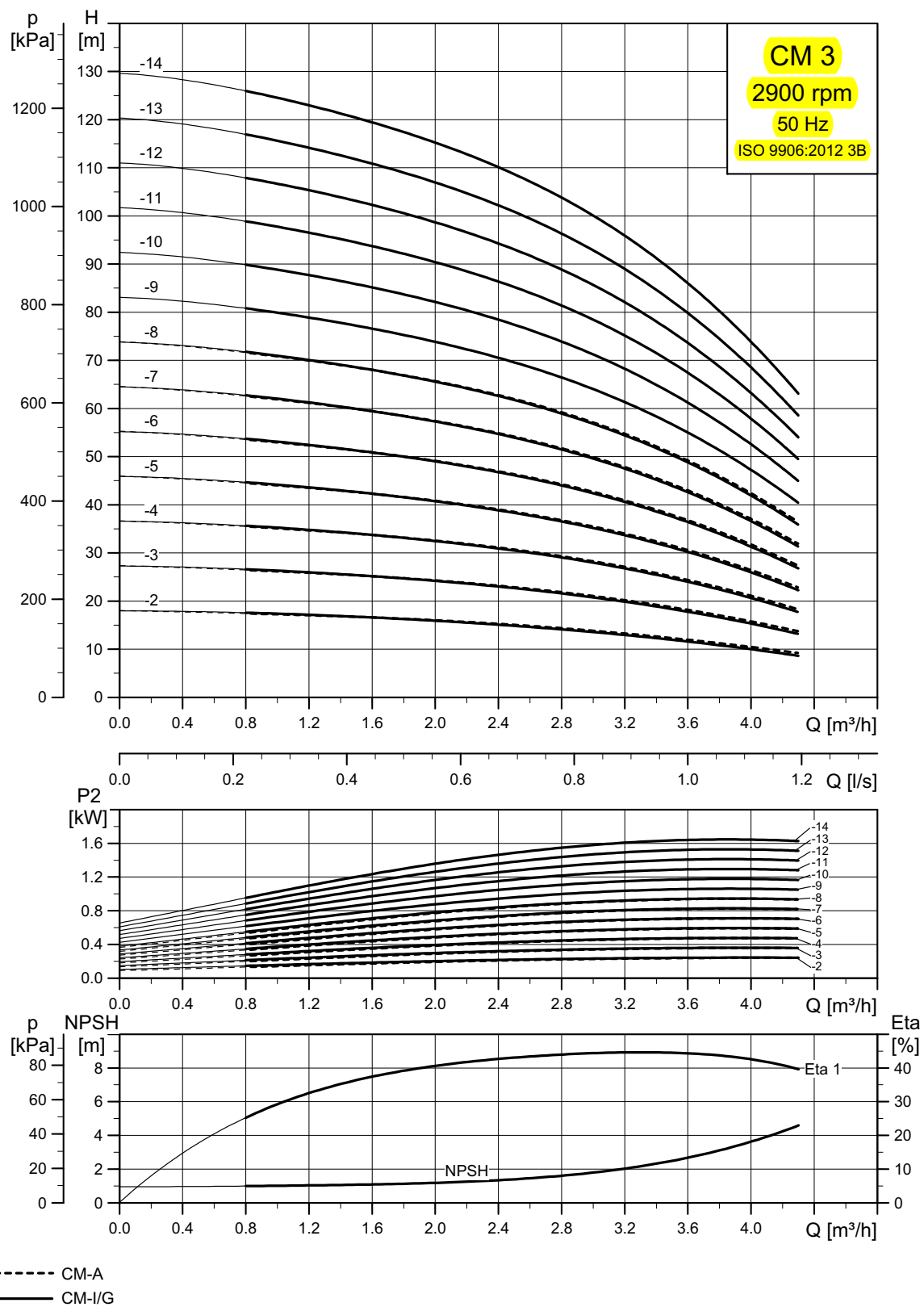
Minimum efficiency index

Minimum efficiency index (MEI) means the dimensionless scale unit for hydraulic pump efficiency at best efficiency point (BEP), part load (PL) and overload (OL). The Commission Regulation (EU) sets efficiency requirements to $MEI \geq 0.40$ as from 1 January 2015. An indicative benchmark for best-performing water pump available on the market as from 1 January 2013 is determined in the Regulation.

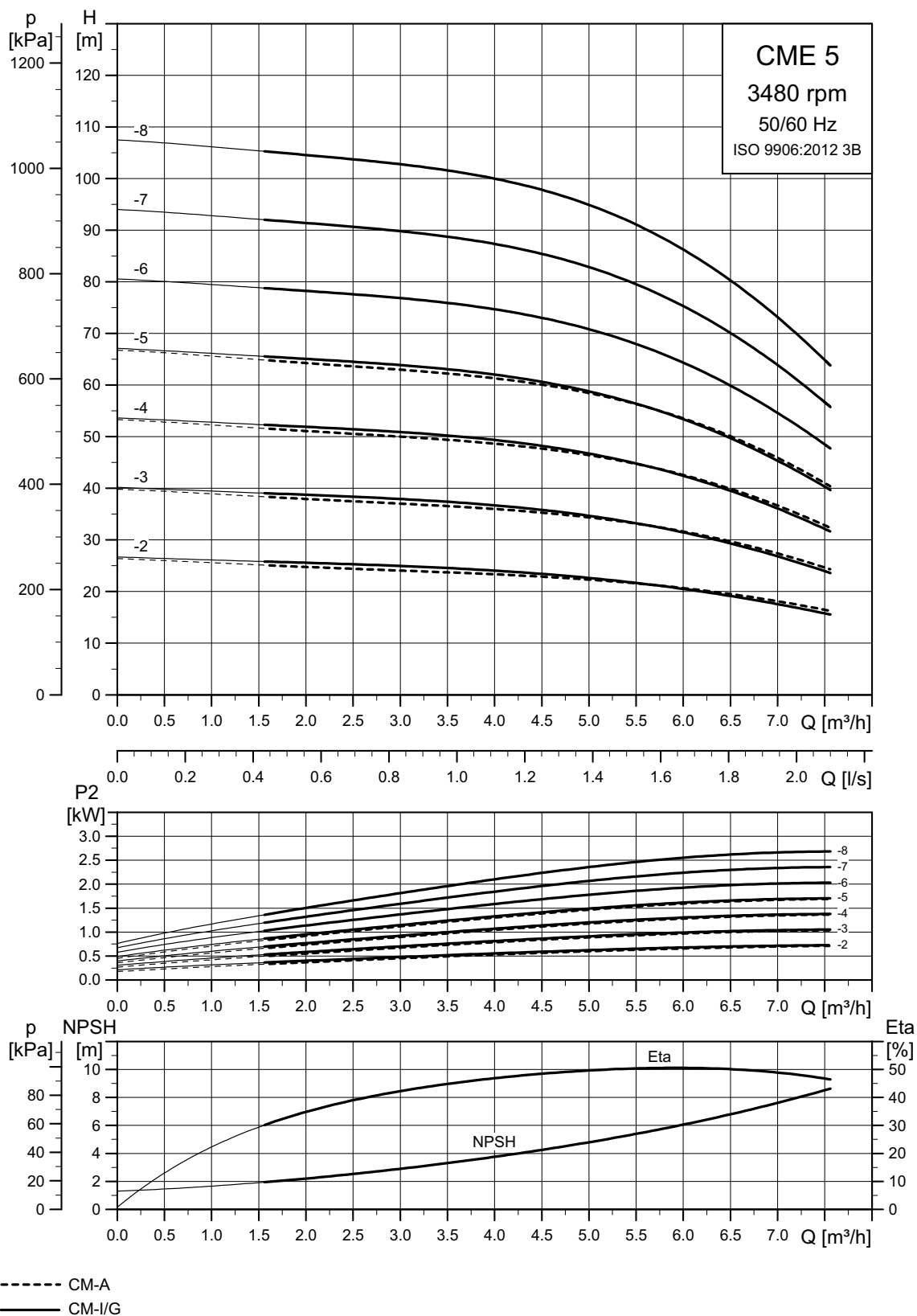
- The benchmark for most efficient water pumps is $MEI \geq 0.70$.
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable-speed drive that matches the pump duty to the system.
- Information on benchmark efficiency is available at <http://europump.eu/efficiencycharts>.

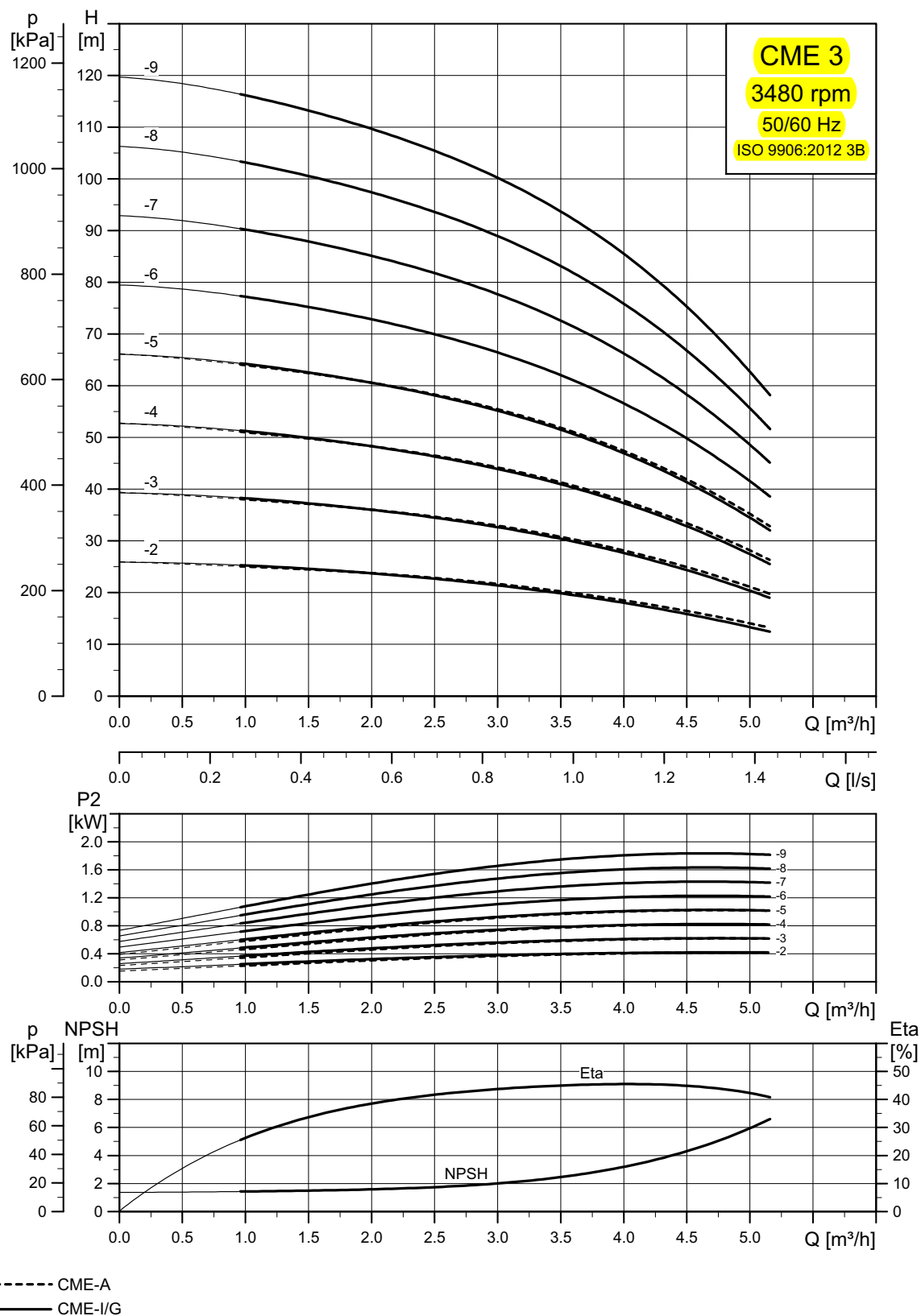
Pump type	MEI	Efficiency at best efficiency point [%]
CM, CME 1 A	0.70	37.1
CM, CME 1 I/G	0.68	36.4
CM, CME 3 A	0.70	50.6
CM, CME 3 I/G	0.70	49.3
CM, CME 5 A	0.70	53.3
CM, CME 5 I/G	0.70	52.1
CM, CME 10 A	0.70	62.2
CM, CME 10 I/G	0.52	57.9
CM, CME 15 A	0.70	67.5
CM, CME 15 I/G	0.59	63.1
CM, CME 25 A	0.70	68.3
CM, CME 25 I/G	0.41	63.8

CM 3

TM04 3335 4616

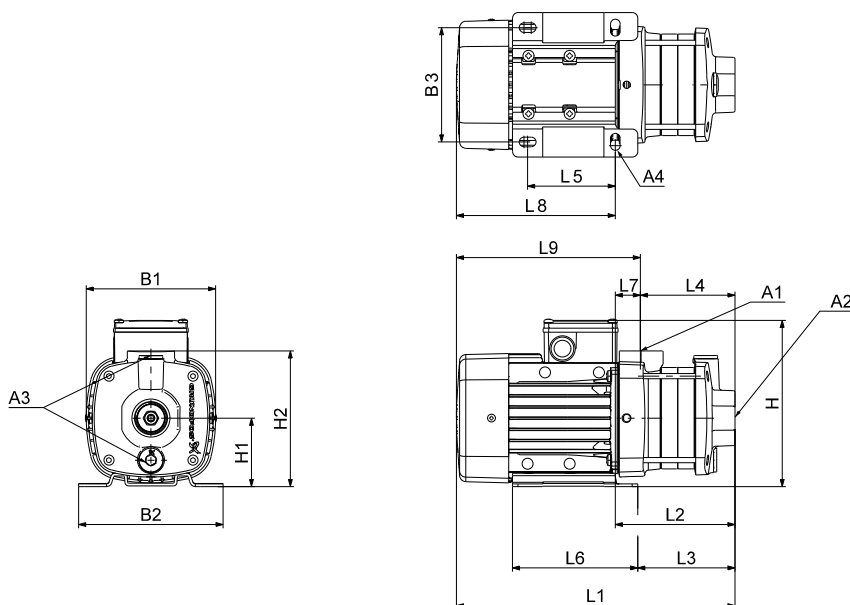
CM 3

TM04 3371 4616

CME 3

Note: Irrespective of the input frequency, the 100 % speed of CME pumps is approximately 3400 min^{-1} .

TM04 3570 4616

CM 3-A**(A = cast iron EN-GJL-200)**

TM06 7509 3616

Dimensions**3 x 220-240/380-415 V, 50 Hz (supply voltage F)**

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.46	1"	1"	3/8"	10.5	141	158	125	184	75	149	286	112	88	85	96	137	27	174	201
CM 3-3	71	0.46	1"	1"	3/8"	10.5	141	158	125	184	75	149	304	130	106	103	96	137	27	174	201
CM 3-4	71	0.46	1"	1"	3/8"	10.5	141	158	125	184	75	149	322	148	124	121	96	137	27	174	201
CM 3-5	71	0.65	1"	1"	3/8"	10.5	141	158	125	184	75	149	340	166	142	139	96	137	27	174	201
CM 3-6	71	0.65	1"	1"	3/8"	10.5	141	158	125	184	75	149	358	184	160	157	96	137	27	174	201
CM 3-7	80	1.10	1"	1"	3/8"	10.5	141	158	125	184	75	149	436	202	178	175	96	137	27	234	261
CM 3-8	80	1.10	1"	1"	3/8"	10.5	141	158	125	184	75	149	454	220	196	193	96	137	27	234	261

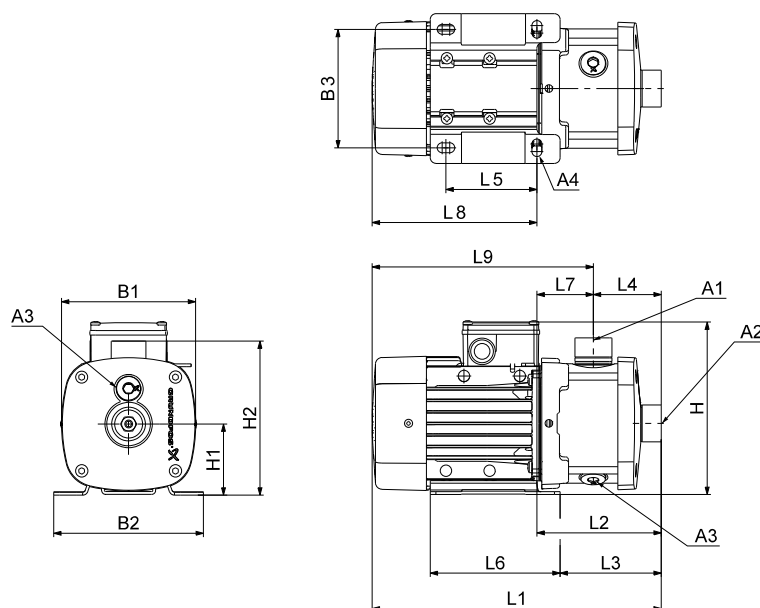
1 x 220-240 V, 50 Hz (supply voltage C)

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.30	1"	1"	3/8"	10.5	141	158	125	208	75	149	286	112	88	85	96	137	27	174	201
CM 3-3	71	0.50	1"	1"	3/8"	10.5	141	158	125	208	75	149	304	130	106	103	96	137	27	174	201
CM 3-4	71	0.50	1"	1"	3/8"	10.5	141	158	125	208	75	149	322	148	124	121	96	137	27	174	201
CM 3-5	71	0.50	1"	1"	3/8"	10.5	141	158	125	208	75	149	340	166	142	139	96	137	27	174	201
CM 3-6	80	0.67	1"	1"	3/8"	10.5	141	158	125	208	75	151	398	184	160	157	96	137	27	214	241
CM 3-7	80	0.90	1"	1"	3/8"	10.5	141	158	125	208	75	151	416	202	178	175	96	137	27	214	241
CM 3-8	80	0.90	1"	1"	3/8"	10.5	141	158	125	208	75	151	434	220	196	193	96	137	27	214	241

All dimensions are in mm unless otherwise stated.

CM 3-I and CM 3-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316)



TM06 7507 3616

Dimensions

3 x 220-240/380-415 V, 50 Hz (supply voltage F)

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.46	1"	1"	3/8"	10.5	141	158	125	184	75	165	306	132	108	72	96	137	60	174	234
CM 3-3	71	0.46	1"	1"	3/8"	10.5	141	158	125	184	75	165	306	132	108	72	96	137	60	174	234
CM 3-4	71	0.46	1"	1"	3/8"	10.5	141	158	125	184	75	165	324	150	126	90	96	137	60	174	234
CM 3-5	71	0.65	1"	1"	3/8"	10.5	141	158	125	184	75	165	342	168	144	108	96	137	60	174	234
CM 3-6	71	0.65	1"	1"	3/8"	10.5	141	158	125	184	75	165	378	204	180	144	96	137	60	174	234
CM 3-7	80	1.10	1"	1"	3/8"	10.5	141	158	125	184	75	165	438	204	180	144	96	137	60	234	294
CM 3-8	80	1.10	1"	1"	3/8"	10.5	141	158	125	184	75	165	474	240	216	180	96	137	60	234	294
CM 3-9	80	1.10	1"	1"	3/8"	10.5	141	158	125	184	75	165	474	240	216	180	96	137	60	234	294
CM 3-10	90	1.50	1"	1"	3/8"	10.0	178	178	140	200	90	180	541	317	302	216	125	155	101	224	325
CM 3-11	90	1.50	1"	1"	3/8"	10.0	178	178	140	200	90	180	541	317	302	216	125	155	101	224	325
CM 3-12	90	1.50	1"	1"	3/8"	10.0	178	178	140	200	90	180	595	371	356	270	125	155	101	224	325
CM 3-13	90	2.20	1"	1"	3/8"	10.0	178	178	140	200	90	180	636	372	357	270	125	155	102	264	366
CM 3-14	90	2.20	1"	1"	3/8"	10.0	178	178	140	200	90	180	636	372	357	270	125	155	102	264	366

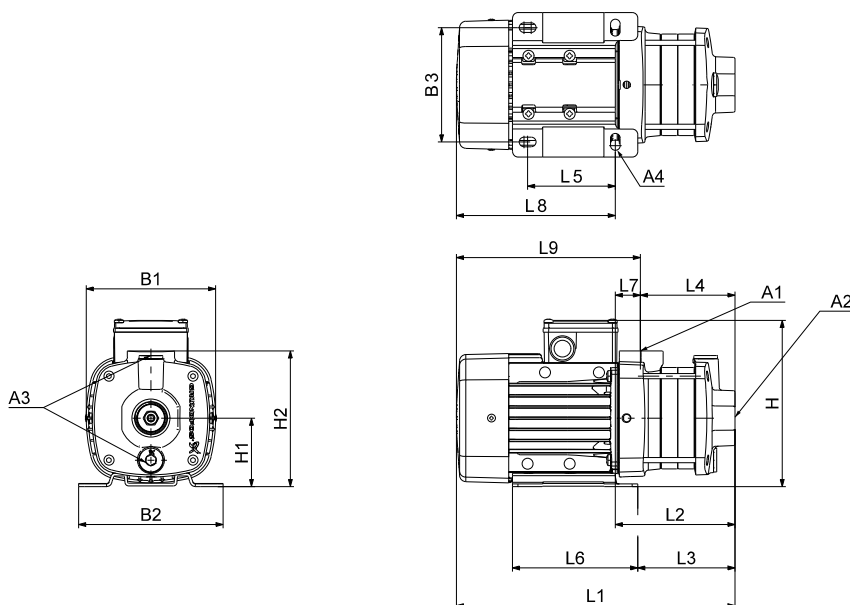
1 x 220-240 V, 50 Hz (supply voltage C)

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.30	1"	1"	3/8"	10.5	141	158	125	208	75	165	306	132	108	72	96	137	60	174	234
CM 3-3	71	0.50	1"	1"	3/8"	10.5	141	158	125	208	75	165	306	132	108	72	96	137	60	174	234
CM 3-4	71	0.50	1"	1"	3/8"	10.5	141	158	125	208	75	165	324	150	126	90	96	137	60	174	234
CM 3-5	71	0.50	1"	1"	3/8"	10.5	141	158	125	208	75	165	342	168	144	108	96	137	60	174	234
CM 3-6	80	0.67	1"	1"	3/8"	10.5	141	158	125	208	75	165	418	204	180	144	96	137	60	214	274
CM 3-7	80	0.90	1"	1"	3/8"	10.5	141	158	125	208	75	165	418	204	180	144	96	137	60	214	274
CM 3-8	80	0.90	1"	1"	3/8"	10.5	141	158	125	208	75	165	454	240	216	180	96	137	60	214	274
CM 3-9	90	1.30	1"	1"	3/8"	10.0	178	178	140	229	90	180	505	281	266	180	125	155	101	224	325
CM 3-10	90	1.30	1"	1"	3/8"	10.0	178	178	140	229	90	180	541	317	302	216	125	155	101	224	325
CM 3-11	90	1.30	1"	1"	3/8"	10.0	178	178	140	229	90	180	541	317	302	216	125	155	101	224	325
CM 3-12	90	1.30	1"	1"	3/8"	10.0	178	178	140	229	90	180	595	371	356	270	125	155	101	224	325
CM 3-13	90	1.30	1"	1"	3/8"	10.0	178	178	140	229	90	180	595	371	356	270	125	155	101	224	325
CM 3-14	90	1.90	1"	1"	3/8"	10.0	178	178	140	229	90	180	595	371	356	270	125	155	101	224	325

All dimensions are in mm unless otherwise stated.

CM 3-A

(A = cast iron EN-GJL-200)



TM06 7509 3616

Dimensions**3 x 208-230/440-480 V, 60 Hz (supply voltage E)****3 x 380-415 V, 50 Hz; 3 x 440-480 V, 60 Hz (supply voltage J)****3 x 220-240/380-415 V, 50 Hz; 3 x 220-255/380-440 V, 60 Hz (supply voltage O)**

Pump type	Frame size	P ₂ [kW]		Dimensions [mm]																		
		50 Hz	60 Hz	A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.25 / 0.43*	0.43 / 0.74*	1"	1"	3/8"	10.5	141	158	125	192	75	151	286	112	88	85	96	137	27	174	201
CM 3-3	71	0.43	0.74	1"	1"	3/8"	10.5	141	158	125	192	75	151	304	130	106	103	96	137	27	174	201
CM 3-4	71	0.43	0.74	1"	1"	3/8"	10.5	141	158	125	192	75	151	322	148	124	121	96	137	27	174	201
CM 3-5	80	0.64	1.10	1"	1"	3/8"	10.5	141	158	125	192	75	149	380	166	142	139	96	137	27	214	241

* Applies to supply voltage O.

1 x 115/230 V, 60 Hz (supply voltage B)**1 x 220 V, 60 Hz (supply voltage A)**

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.60	1"	1"	3/8"	10.5	141	158	125	208	75	149	286	112	88	85	96	137	27	174	201
CM 3-3	71	0.60	1"	1"	3/8"	10.5	141	158	125	208	75	149	304	130	106	103	96	137	27	174	201
CM 3-4	80	0.84* / 0.78	1"	1"	3/8"	10.5	141	158	125	208	75	149	362	148	124	121	96	137	27	214	241
CM 3-5	80	1.14* / 1.10	1"	1"	3/8"	10.5	206	158	125	208	75	149	380	166	142	139	96	137	27	214	241

* Applies to supply voltage A.

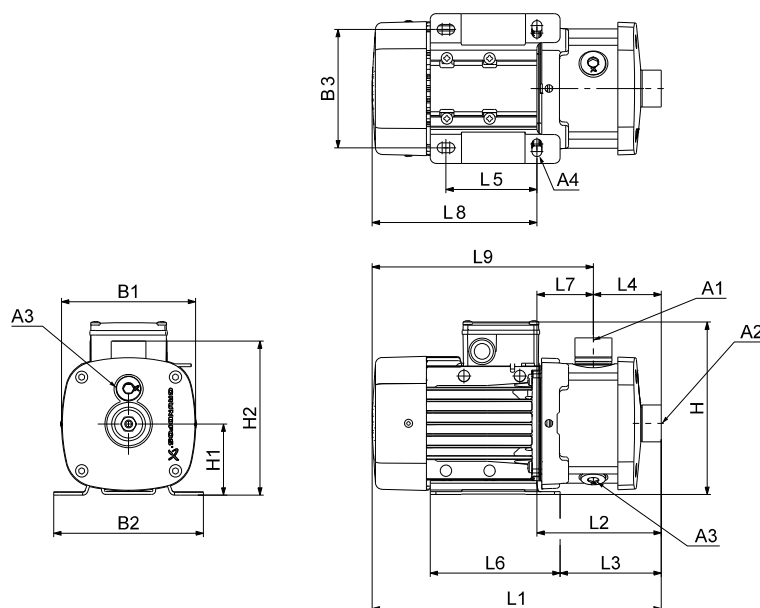
3 x 200/346 V, 50 Hz; 3 x 200-220/346-380 V, 60 Hz (supply voltage G)

Pump type	Frame size	P ₂ [kW]		Dimensions [mm]																		
		50 Hz	60 Hz	A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.25	0.43	1"	1"	3/8"	10.5	141	158	125	184	75	149	286	112	88	85	96	137	27	174	201
CM 3-3	71	0.43	0.74	1"	1"	3/8"	10.5	141	158	125	184	75	149	304	130	106	103	96	137	27	174	201
CM 3-4	71	0.43	0.74	1"	1"	3/8"	10.5	141	158	125	184	75	149	322	148	124	121	96	137	27	174	201
CM 3-5	80	0.74	1.28	1"	1"	3/8"	10.5	141	158	125	184	75	149	400	166	142	139	96	137	27	234	261

All dimensions are in mm unless otherwise stated.

CM 3-I and CM 3-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316)



TM06 7507 3616

Dimensions

3 x 208-230/440-480 V, 60 Hz (supply voltage E)

3 x 380-415 V, 50 Hz; 3 x 440-480 V, 60 Hz (supply voltage J)

3 x 220-240/380-415 V, 50 Hz; 3 x 220-255/380-440 V, 60 Hz (supply voltage O)

Pump type	Frame size	P ₂ [kW]		Dimensions [mm]																		
		50 Hz	60 Hz	A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.25 / 0.43*	0.43 / 0.74*	1"	1"	3/8"	10.5	141	158	125	192	75	165	306	132	108	72	96	137	60	174	234
CM 3-3	71	0.43	0.74	1"	1"	3/8"	10.5	141	158	125	192	75	165	306	132	108	72	96	137	60	174	234
CM 3-4	71	0.43	0.74	1"	1"	3/8"	10.5	141	158	125	192	75	165	324	150	126	90	96	137	60	174	234
CM 3-5	80	0.64	1.10	1"	1"	3/8"	10.5	141	158	125	192	75	165	382	168	144	108	96	137	60	214	274
CM 3-6	80	1.27	2.20	1"	1"	3/8"	10.5	141	158	125	192	75	165	438	204	180	144	96	137	60	234	294
CM 3-7	90	1.27	2.20	1"	1"	3/8"	10.0	178	178	140	200	90	180	469	245	230	144	125	155	101	224	325
CM 3-8	90	1.27	2.20	1"	1"	3/8"	10.0	178	178	140	200	90	180	546	282	267	180	125	155	102	264	366
CM 3-9	90	1.27	2.20	1"	1"	3/8"	10.0	178	178	140	200	90	180	546	282	267	180	125	155	102	264	366

* Applies to supply voltage O.

1 x 115/230 V, 60 Hz (supply voltage B); 1 x 220 V, 60 Hz (supply voltage A)

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.60	1"	1"	3/8"	10.5	141	158	125	208	75	165	306	132	108	72	96	137	60	174	234
CM 3-3	71	0.60	1"	1"	3/8"	10.5	141	158	125	208	75	165	306	132	108	72	96	137	60	174	234
CM 3-4	80	0.84* / 0.78	1"	1"	3/8"	10.5	141	158	125	208	75	165	364	150	126	90	96	137	60	214	274
CM 3-5	80	1.14* / 1.10	1"	1"	3/8"	10.5	206	158	125	208	75	165	382	168	144	108	96	137	60	214	274
CM 3-6	90	1.54* / 1.50	1"	1"	3/8"	10.0	178	178	140	229	90	180	469	245	230	144	125	155	101	224	325
CM 3-7	90	1.54* / 1.50	1"	1"	3/8"	10.0	178	178	140	229	90	180	469	245	230	144	125	155	101	224	325
CM 3-8	90	1.54* / 1.50	1"	1"	3/8"	10.0	178	178	140	229	90	180	505	281	266	180	125	155	101	224	325

* Applies to supply voltage A.

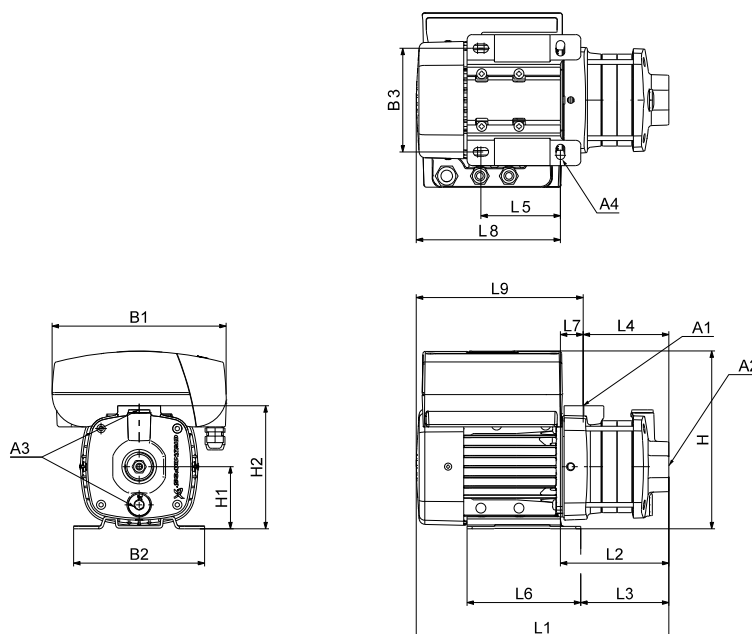
3 x 200/346 V, 50 Hz; 3 x 200-220/346-380 V, 60 Hz (supply voltage G)

Pump type	Frame size	P ₂ [kW]		Dimensions [mm]																		
		50 Hz	60 Hz	A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	71	0.25	0.43	1"	1"	3/8"	10.5	141	158	125	184	75	165	306	132	108	72	96	137	60	174	234
CM 3-3	71	0.43	0.74	1"	1"	3/8"	10.5	141	158	125	184	75	165	306	132	108	72	96	137	60	174	234
CM 3-4	71	0.43	0.74	1"	1"	3/8"	10.5	141	158	125	184	75	165	324	150	126	90	96	137	60	174	234
CM 3-5	80	0.74	1.28	1"	1"	3/8"	10.5	141	158	125	184	75	165	402	168	144	108	96	137	60	234	294
CM 3-6	80	0.74	1.28	1"	1"	3/8"	10.5	141	158	125	184	75	165	438	204	180	144	96	137	60	234	294
CM 3-7	90	1.27	2.20	1"	1"	3/8"	10.0	178	178	140	200	90	180	510	246	231	144	125	155	102	264	366
CM 3-8	90	1.27	2.20	1"	1"	3/8"	10.0	178	178	140	200	90	180	546	282	267	180	125	155	102	264	366
CM 3-9	90	1.27	2.20	1"	1"	3/8"	10.0	178	178	140	200	90	180	546	282	267	180	125	155	102	264	366

All dimensions are in mm unless otherwise stated.

CME 3-A

(A = cast iron EN-GJL-200)



TM06 7510 3616

Dimensions**3 x 380-500 V, 50/60 Hz (supply voltage S)****3 x 440-480 V, 50/60 Hz (supply voltage T)**

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CME 3-2	71	0.55	1"	1"	3/8"	10.5	267	158	125	233	75	149	348	112	87	85	96	137	27	236	263
CME 3-3	80	1.10	1"	1"	3/8"	10.5	267	158	125	233	75	149	366	130	105	103	96	137	27	236	263
CME 3-4	80	1.10	1"	1"	3/8"	10.5	267	158	125	233	75	149	384	148	123	121	96	137	27	236	263
CME 3-5	80	1.10	1"	1"	3/8"	10.5	267	158	125	233	75	149	402	166	141	139	96	137	27	236	263

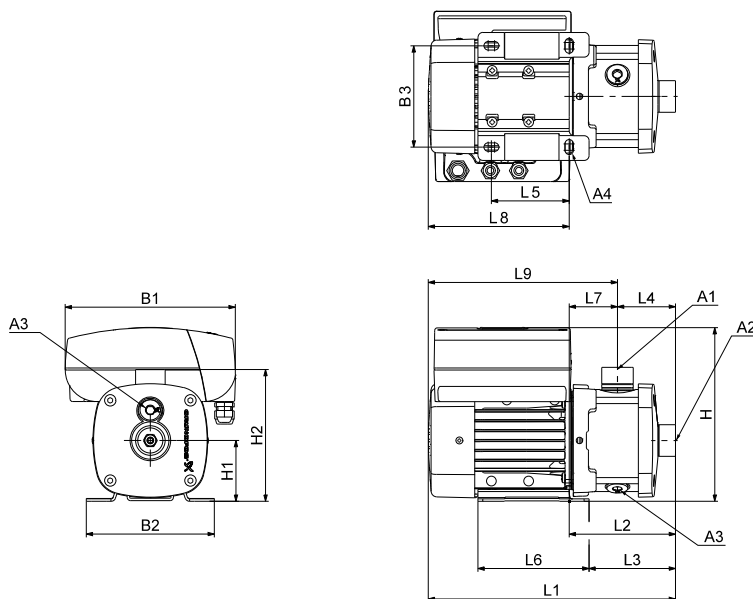
1 x 200-240 V, 50/60 Hz (supply voltage U)

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CME 3-2	71	0.55	1"	1"	3/8"	10.5	212	158	125	233	75	149	308	112	87	85	96	137	27	196	223
CME 3-3	80	1.10	1"	1"	3/8"	10.5	212	158	125	233	75	149	326	130	105	103	96	137	27	196	223
CME 3-4	80	1.10	1"	1"	3/8"	10.5	212	158	125	233	75	149	344	148	123	121	96	137	27	196	223
CME 3-5	80	1.10	1"	1"	3/8"	10.5	212	158	125	233	75	149	362	166	141	139	96	137	27	196	223

All dimensions are in mm unless otherwise stated.

CME 3-I and CME 3-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316)



TM06 7508 3616

Dimensions**3 x 380-500 V, 50/60 Hz (supply voltage S)****3 x 440-480 V, 50/60 Hz (supply voltage T)**

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CME 3-2	71	0.55	1"	1"	3/8"	10.5	267	158	125	233	75	165	368	132	107	72	96	137	60	236	296
CME 3-3	80	1.10	1"	1"	3/8"	10.5	267	158	125	233	75	165	368	132	107	72	96	137	60	236	296
CME 3-4	80	1.10	1"	1"	3/8"	10.5	267	158	125	233	75	165	386	150	125	90	96	137	60	236	296
CME 3-5	80	1.10	1"	1"	3/8"	10.5	267	158	125	233	75	165	404	168	143	108	96	137	60	236	296
CME 3-6	90	1.50	1"	1"	3/8"	10.5	267	178	140	248	90	181	446	249	234	144	125	155	105	198	303
CME 3-7	90	1.50	1"	1"	3/8"	10.5	267	178	140	248	90	181	446	249	234	144	125	155	105	198	303
CME 3-8	90	2.20	1"	1"	3/8"	10.5	267	178	140	248	90	181	482	285	270	180	125	155	105	198	303
CME 3-9	90	2.20	1"	1"	3/8"	10.5	267	178	140	248	90	181	482	285	270	180	125	155	105	198	303

1 x 200-240 V, 50/60 Hz (supply voltage U)

Pump type	Frame size	P ₂ [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CME 3-2	71	0.55	1"	1"	3/8"	10.5	212	158	125	233	75	165	328	132	107	72	96	137	60	196	256
CME 3-3	80	1.10	1"	1"	3/8"	10.5	212	158	125	233	75	165	328	132	107	72	96	137	60	196	256
CME 3-4	80	1.10	1"	1"	3/8"	10.5	212	158	125	233	75	165	346	150	125	90	96	137	60	196	256
CME 3-5	80	1.10	1"	1"	3/8"	10.5	212	158	125	233	75	165	364	168	143	108	96	137	60	196	256
CME 3-6	90	1.50	1"	1"	3/8"	10.5	212	178	140	248	90	181	407	249	234	144	125	155	105	158	263
CME 3-7	90	1.50	1"	1"	3/8"	10.5	212	178	140	248	90	181	407	249	234	144	125	155	105	158	263

All dimensions are in mm unless otherwise stated.

26. Motor data

Mains-operated motors, 50 Hz

1 x 220-240 V, 50 Hz (supply voltage C)

Frame size	P ₂ [kW]	I _{1/1} [A]	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
71A	0.3	1.8 - 2.4	0.95 - 0.86	67.4 - 61.4	6.1 - 8.2	2.800 - 2.830
71B	0.5	3.1 - 2.8	0.97 - 0.99	74-70	16.4 - 14.8	2.730 - 2.740
80A	0.67	4.4 - 4.0	0.99 - 0.99	71.8 - 73	17.2 - 15.6	2.720 - 2.800
80B	0.9	5.4 - 5.0	0.98 - 0.98	76-74	23.2 - 21.5	2.750 - 2.790
90SA	1.3	8.4 - 8.0	0.98 - 0.98	71-71	28.6 - 27.2	2.710 - 2.710
90SB	1.9	11.0 - 10.0	0.99 - 0.98	75-76	40.7 - 37.0	2.755 - 2.770

3 x 220-240/380-415 V, 50 Hz (supply voltage F)

Frame size	P ₂ [kW]	I _{1/1} [A]	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
71A	0.46	2.0 - 2.2 / 1.0 - 1.2	0.83 - 0.75	73.4 - 73.6	9.8 - 11.7 / 4.9 - 6.4	2.770 - 2.820
71B	0.65	2.8 - 3.1 / 1.6 - 1.8	0.82 - 0.72	73.9 - 72.9	16.2 - 19.2 / 9.3 - 11.2	2.770 - 2.820
80C	1.10	4.4 - 4.5 / 2.55 - 2.6	0.82 - 0.74	83.1 - 83.4	31.7 - 35.1 / 18.4 - 20.3	2.830 - 2.860
90SB	1.50	5.45 - 5.45 / 3.15 - 3.15	0.87 - 0.82	84.2 - 84.9	46.3 - 50.7 / 26.8 - 29.3	2.890 - 2.910
90LC	2.20	7.70 - 7.70 / 4.45 - 4.45	0.89 - 0.87	85.9 - 85.9	65.5 - 73.2 / 37.8 - 42.3	2.890 - 2.910
100LC	3.00	11.0 - 11.0 / 6.30 - 6.30	0.87 - 0.82	87.2 - 87.1	92.4 - 101.2 / 52.9 - 58.0	2.900 - 2.920
112MC	4.00	13.8 - 13.2 / 8.00 - 7.65	0.89 - 0.86	89.2 - 89.2	154.6 - 162.4 / 89.6 - 94.1	2.920 - 2.940
132SC	5.50	19.0 - 19.0 / 11.0 - 11.0	0.87 - 0.82	89.9 - 90.2	212.8 - 243.2 / 123.2 - 140.8	2.920 - 2.940
132SD	6.40	22.8 - 22.6 / 13.2 - 13.0	0.86 - 0.80	89.9 - 90.0	273.6 - NA / 158.4 - NA	2.920 - 2.930

Mains-operated motors, 60 Hz

1 x 220 V, 60 Hz (supply voltage A)

Frame size	P ₂		Service factor	I _{1/1} [A]	Service factor current	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
	[kW]	[hp]							
71B	0.60	0.80	1	4.1	4.1	0.98	71	16.8	3.300
80A	0.84	1.1	1	5.8	5.8	0.98	69.8	18.6	3.150
80B	1.14	1.5	1	7.35	7.35	0.99	73.5	19.8	3.270
90SB	1.54	2.0	1	9.8	9.8	0.98	74.8	37.2	3.330

1 x 115/230 V, 60 Hz (supply voltage B)

Frame size	P ₂		Service factor	I _{1/1} [A]	Service factor current	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
	[kW]	[hp]							
71BA	0.60	0.8	1	7.6 / 3.9	7.6 / 3.9	0.76	69-66	19.8 / 10.1	3.240
80AA	0.78	1.06	1	10.6 / 5.4	10.6 / 5.4	0.65	69-68	31.8 / 16.2	3.240
80BA	1.10	1.50	1	14.0 / 7.0	14.0 / 7.0	0.94	71-69	44.8 / 22.4	3.320
90CC	1.50	2.03	1	19.5 / 9.8	19.5 / 9.8	0.97	72.9 - 69	78.0 / 39.2	3.360

3 x 208-230/440-480 V, 60 Hz (supply voltage E)

Frame size	P ₂		Service factor	I _{1/1} [A]	Service factor current	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
	[kW]	[hp]							
71AA	0.43	0.58	1	1.9 - 1.7 / 1.0 - 0.8	1.9 - 1.7 / 1.0 - 0.8	0.85 - 0.81 / 0.85 - 0.81	76.0 - 78.6	11.2 - 11.1 / 5.9 - 5.2	3.360 - 3.420
71BA	0.74	1.0	1	3.4 - 3.6 / 1.7 - 1.8	3.4 - 3.6 / 1.7 - 1.8	0.89 - 0.83 / 0.89 - 0.83	76.0 - 78.4	20.1 - 23.4 / 10.0 - 11.7	3.220 - 3.370
80CB	1.1	1.47	1	5.2 - 5.1 / 2.55 - 2.65	5.2 - 5.1 / 2.55 - 2.65	0.81 - 0.73 / 0.81 - 0.73	84.8 - 84.7	35.4 - 39.3 / 17.3 - 20.4	3.430 - 3.470
90FA	2.2	2.95	1	8.20 - 7.7 / 4.0 - 3.7	8.20 - 7.7 / 4.0 - 3.7	0.9 - 0.86 / 0.9 - 0.86	86.5 - 87.0	74.6 - 80.9 / 36.4 - 38.9	3.510 - 3.530
100DA	2.9	3.9	1	10.8 - 10.5 / 5.25 - 5.3	10.8 - 10.5 / 5.25 - 5.3	0.85 - 0.78 / 0.85 - 0.78	88.0 - 88.2	129.6 - 91.4 / 63.0 - 46.1	3.520 - 3.530
112CA	4.0	5.36	1	14.6 - 13.6 / 6.95 - 6.65	14.6 - 13.6 / 6.95 - 6.65	0.9 - 0.86 / 0.9 - 0.86	88.6 - 88.5	131.4 - 156.4 / 62.6 - 76.5	3.530 - 3.540
132DA	5.5	7.37	1	20.4 - 19.8 / 9.95 - 9.85	20.4 - 19.8 / 9.95 - 9.85	0.84 - 0.78 / 0.84 - 0.78	90.1 - 90.0	259.1 - 277.2 / 126.4 - 137.9	3.540 - 3.550
132EB	6.4	8.57	1	23.6 - 22.8 / 11.6 - 11.6	23.6 - 22.8 / 11.6 - 11.6	0.84 - 0.78 / 0.84 - 0.78	90.1 - 89.9	144.0 - 143.6 / 70.8 - 73.1	3.530 - 3.550

3 x 575 V, 60 Hz (supply voltage H)*

Frame size	P ₂		Service factor	I _{1/1} [A]	Service factor current	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
	[kW]	[hp]							
71AA	0.43	0.58	1	0.7	0.7	0.84	76.0	4.6	3.340
71BA	0.74	1.0	1	1.3	1.3	0.84	76	8.5	3.340
80BA	1.04	1.4	1	1.55	1.55	0.8	85.2	11.8	3.450
80CB	1.28	1.7	1	1.84	1.84	0.82	85.7	15.3	3.440
90CC	1.7	2.3	1	2.89	2.89	0.83	85.9	27.7	3.440
90FA	2.5	3.4	1	3.5	3.5	0.9	85.9	20.7	3.490
100BB	4.0	5.4	1	5.7	5.7	0.88	88.5	49.6	3.500
132CA	6	8	1	8.2	8.2	0.86	89.2	106.6	3.520

* Only available with IE2 efficiency motors.

Mains-operated motors, 50/60 Hz

3 x 220-240/380-415 V, 50 Hz; 3 x 220-255/380-440 V, 60 Hz (supply voltage O)

Frame size	P ₂ [kW]	Frequency [Hz]	I _{1/1} [A]	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
71B	0.43	50	2.3 - 2.6 / 1.3 - 1.5	0.72 - 0.60	78-76	11.5 - 15.6 / 6.5 - 9.0	2.870 - 2.890
	0.74	60	3.1 - 2.75 / 1.78 - 1.58	0.87 - 0.84	75-77	15.5 - 16.5 / 8.9 - 9.5	3.280 - 3.350
80C	0.64	50	3.75 - 4.75 / 2.16 - 2.75	0.56 - 0.43	83.1 - 78.6	36.0 - 42.8 / 20.7 - 24.8	2.920 - 2.930
	1.1	60	4.30 - 4.25 / 2.48 - 2.44	0.83 - 0.72	84.6 - 85.4	28.4 - 33.2 / 16.4 - 19.0	3.420 - 3.470
90LC	1.27	50	5.9 - 6.95 / 3.40 - 4.0	0.70 - 0.55	85.4 - 83.4	85.6 - 95.9 / 49.3 - 55.2	2.960 - 2.970
	2.2	60	7.95 - 7.55 / 4.60 - 4.35	0.88 - 0.84	86.8 - 87.0	71.6 - 90.6 / 41.4 - 52.2	3.520 - 3.530
100LC	1.68	50	7.0 - 7.90 / 4.05 - 4.55	0.73 - 0.62	88.1 - 86.2	98.0 - 110.6 / 56.7 - 63.7	2.950 - 2.960
	2.90	60	10.2 - 9.10 / 5.85 - 5.25	0.90 - 0.85	86.9 - 88.5	88.7 - 88.3 / 50.9 - 50.9	3.490 - 3.520
112MC	2.3	50	9.95 - 10.6 / 5.75 - 6.1	0.73 - 0.63	88.4 - 86.7	159.2 - 173.8 / 92.0 - 100.0	2.970 - 2.970
	4	60	14.0 - 12.8 / 8.05 - 7.35	0.89 - 0.84	89.1 - 89.7	147.0 - 169.0 / 84.5 - 97.0	3.520 - 3.540
132SC	3.18	50	12.4 - 13.0 / 7.20 - 7.45	0.78 - 0.69	90.0 - 89.2	213.3 - 236.6 / 123.8 - 135.6	2.960 - 2.960
	5.5	60	19.0 - 16.8 / 11.0 - 9.75	0.91 - 0.86	89.5 - 90.4	201.4 - 231.0 / 116.6 - 134.1	3.510 - 3.530
132SD	3.7	50	16.4 - 18.4 / 9.45 - 10.6	0.69 - 0.57	89.6 - 87.8	272.2 - 311.0 / 156.9 - 179.1	2.960 - 2.970
	6.4	60	22.2 - 20.4 / 12.8 - 11.8	0.89 - 0.82	90.0 - 90.2	217.6 - 265.2 / 125.4 - 153.4	3.510 - 3.540

3 x 380-415 V, 50 Hz; 3 x 440-480 V, 60 Hz (supply voltage J)

Frame size	P ₂ [kW]	Frequency [Hz]	I _{1/1} [A]	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
71AA	0.25	50	0.55 - 0.65	0.77 - 0.71	77-76	4.0 - 5.1	2.870 - 2.890
	0.43	60	0.95 - 0.80	0.85 - 0.82	76.0 - 78.6	5.6 - 5.2	3.360 - 3.420
71BA	0.43	50	1.4 - 1.5	0.76 - 0.66	77-76	7.7 - 9.0	2.860 - 2.890
	0.74	60	1.7 - 1.8	0.89 - 0.83	76.0 - 78.4	10.0 - 11.7	3.220 - 3.380
80CB	0.64	50	1.82 - 1.98	0.67 - 0.56	84.2 - 83.1	16.9 - 19.2	2.910 - 2.920
	1.10	60	2.22 - 2.22	0.8 - 0.72	84.9 - 85.4	16.7 - 19.3	3.440 - 3.470
90FA	1.27	50	2.85 - 2.9	0.81 - 0.74	86.7 - 86	34.2 - 37.7	2.950 - 2.960
	2.2	60	4.0 - 3.7	0.88 - 0.84	86.8 - 87.0	36.0 - 40.7	3.520 - 3.530
100DA	1.68	50	4.05 - 4.60	0.73 - 0.62	88.1 - 86.2	48.6 - 62.1	2.950 - 2.960
	2.9	60	5.25 - 5.3	0.85 - 0.79	88.5 - 88.2	63.0 - 46.1	3.520 - 3.540
112CA	2.3	50	5.2 - 5.1	0.8 - 0.74	86.4 - 88.8	80.6 - 78.3	2.960 - 2.970
	4.0	60	6.95 - 6.65	0.88 - 0.84	88.7 - 88.5	84.1 - 89.1	3.540 - 3.550
132DA	3.18	50	7.2 - 7.45	0.78 - 0.69	90.0 - 89.2	123.8 - 135.6	2.960 - 2.960
	5.5	60	9.7 - 9.45	0.86 - 0.82	90.4 - 90.4	133.4 - 145.5	3.530 - 3.550
132EB	3.7	50	9.45 - 10.6	0.69 - 0.57	89.6 - 87.8	156.9 - 179.1	2.960 - 2.970
	6.4	60	11.8 - 12.0	0.82 - 0.74	90.6 - 90.2	153.4 - 174.0	3.540 - 3.550

3 x 200/346 V, 50 Hz; 3 x 200-220/346-380 V, 60 Hz (supply voltage G)

Frame size	P ₂ [kW]	Frequency [Hz]	I _{1/1} [A]	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
71AA	0.25	50	1.6 / 1.0	0.65	77	11.7 / 7.3	2.900
	0.43	60	2.0 - 1.8 / 1.15 - 1.05	0.85 - 0.8	76.0 - 78.6	11.8 - 11.7 / 6.8 - 6.8	3.370 - 3.424
71B	0.43	50	3.6 / 2.0	0.53	77	19.8 / 11.0	2.904
	0.74	60	3.3 - 3.5 / 2.0 - 2.2	0.83 - 0.76	76 - 78.4	19.5 - 22.8 / 11.8 - 14.3	3.380 - 3.429
80C	0.74	50	5.95 / 3.45	0.46	78.1	37.5 / 21.7	2.920
	1.28	60	5.5 - 5.65 / 3.15 - 3.25	0.80 - 0.71	84.4 - 84.3	34.4 - 37.9 / 19.7 - 21.8	3.410 - 3.450
90LC	1.27	50	6.75 / 3.9	0.69	86.0	99.9 / 57.7	2.960
	2.2	60	8.85 - 8.35 / 5.1 - 4.8	0.88 - 0.85	86.8 - 87.0	92.9 - 100.2 / 53.6 - 57.6	3.510 - 3.520
100LC	1.68	50	7.45 / 4.30	0.73	88.1	59.6 / 34.4	2.950
	2.90	60	10.8 - 10.4 / 6.25 - 6.0	0.91 - 0.87	86.9 - 88.1	81.0 - 96.7 / 46.9 - 55.8	3.490 - 3.510
112MC	2.3	50	10.2 / 5.9	0.77	87.3	157.1 / 90.9	2.960
	4	60	14.6 - 13.6 / 8.45 - 7.85	0.90 - 0.87	88.6 - 89.1	135.8 - 148.9 / 78.6 - 86.0	3.520 - 3.540
132SC	3.18	50	13.6 / 7.85	0.78	90.0	152.3 / 87.9	2.960
	5.5	60	21.0 - 20.0 / 12.1 - 11.6	0.91 - 0.88	89.5 - 90.1	214.2 - 296.0 / 123.4 - 171.7	3.510 - 3.520
132SD	3.7	50	20.0 / 11.6	0.63	88.8	240.0 / 139.2	2.970
	6.4	60	24.6 - 23.6 / 14.2 - 13.8	0.87 - 0.82	90.1 - 90.6	270.6 - 290.3 / 156.2 - 169.7	3.520 - 3.520

3 x 400 V, 50/60 Hz (supply voltage I)*

Frame size	P ₂ [kW]	Frequency [Hz]	I _{1/1} [A]	Cos φ _{1/1}	η [%]	I _{start} [A]	Speed [min ⁻¹]
71AA	0.25	50	0.73	0.68	72.6	4.7	2.890
	0.43	60	1.0	0.86	73.5	6.5	3.320
71BA	0.43	50	1.68	0.53	71.1	10.9	2.890
	0.74	60	1.70	0.84	76.0	11.1	3.320
80BA	0.6	50	1.9	0.59	81.6	13.5	2.910
	1.04	60	2.18	0.83	83	13.5	3.400
80CB	0.74	50	2.28	0.57	82.4	13.9	2.920
	1.28	60	2.65	0.84	83.9	13.8	3.400
90CC	1	50	3	0.59	81.3	26.7	2.960
	1.7	60	3.2	0.87	81.3	23.7	3.510
90FA	1.45	50	3.0	0.83	86.8	36.0	2.920
	2.5	60	4.65	0.91	85.4	41.9	3.500
100BB	2.32	50	5.5	0.7	87	63.3	2.960
	4	60	7.35	0.89	87.6	63.2	3.500
132CA	3.5	50	8.8	0.65	88.2	145.2	2.960
	6	60	11.2	0.87	90	172.9	3.520

* Only available with IE2 efficiency motors.