CME

New MGE/MLE motor with IE4 efficiency

TM05 6830 0113

Fig. 1 CME with the new MGE/MLE motor

Improved overall energy efficiency

The new MGE/MLE motor represents the state-of-the-art of speed-controlled motors and efficiency.

Total efficiency of the new motor, including the frequency converter, exceeds the IE4 level defined by IEC 60034-31. This makes the CME unique for its class when it comes to efficiency.

Lower $I_{1/1}$

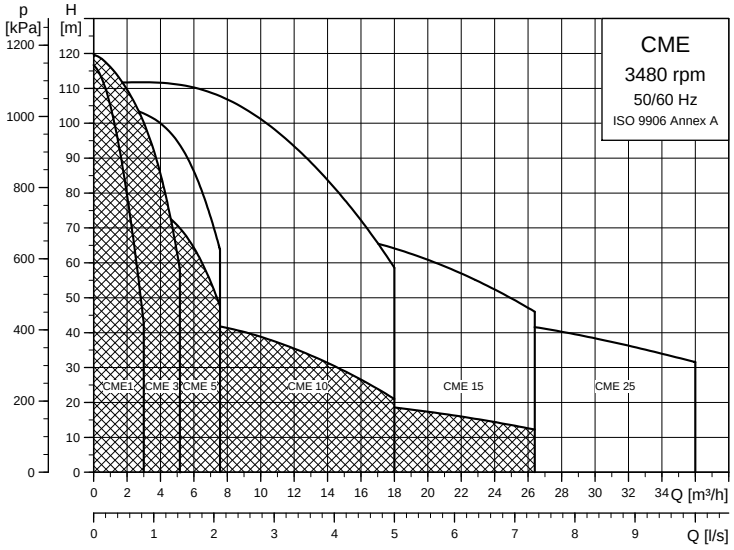
The improved energy efficiency results in a 15 % average reduction of full-load current.

Improved performance

- Permissible ambient temperature increased to 50 °C.
- IP rating, now IP55 (optionally IP66).
- sound pressure level lower than competitor pumps.
- four different functional modules available.

Performance curves

The grey area represents the performance range covered by the new MGE/MLE motor. For single-phase motors, the performance range is up to 1.5 kW and for three-phase motors up to 2.2 kW.
The white area represents the performance range still covered by the previous MGE/MLE motor type.



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The CME comes with the "Standard" functional module. Other types are available on request.

Supply voltages

The new MGE/MLE motors will be available for supply voltages of:

1 x 200-240 V, 0.25 to 1.5 kW (P2)

3 x 380-500 V, 0.25 to 2.2 kW (P2).

These supply voltages will be available with the existing MGE/MLE motors:

3 x 200-230 V

3 x 208-230 V.

Wireless communication

The new MGE/MLE motors can communicate via infrared light and radio signals. As a result, they can be controlled and monitored by both the existing R100 remote control and the new Grundfos Go Remote. The radio transmitter of the new MGE/MLE is globally approved, except for use in China and Korea, due to local legislation.

The "Standard" user control panel has been chosen as default for CM/CME pumps. Other variants are available on request.

Approvals

cURus will be applied in Q3.

Technical specifications

Old MGE		New MGE									
Single-phase (1 x 200-240 V)		Single phase (1 x 200-240 V)		Change in dimensions [mm]						New current values	
P2 [kW]	Frame size	P2 [kW]	Frame size	B1	L1	L9	H CME (1, 3, 5)	H CME (10, 15, 25)	Change in weight [kg]	Imin [A]	Imax [A]
0.55	71B / 71BA	0.55	71	2	25	25	18	0	1	3.3	2.8
1.1	80B / 80BA	1.1	80	2	-15	-15	18	18	-2	6.5	5.4

3-phase (3 x 380-480 V) Without service factor		3-phase (3 x 380-500 V) Without service factor		Change in dimensions [mm]						New current values	
P2 [kW]	Frame size	P2 [kW]	Frame size	B1	L1	L9	H CME (1, 3, 5)	H CME (10, 15, 25)	Change in weight [kg]	Imin [A]	Imax [A]
1.5	90SB	1.5	90	4	-21	-21	-24	0	-7	2.8	2.3
2.2	90LC	2.2	90	4	-61	-61	-24	-9	-11	4	3.3

3-phase (3 x 460-480 V) With service factor 1.15		3-phase (3 x 440-480 V) With service factor 1.15		Change in dimensions [mm]						New current values
P2 [kW] / [hp]	Frame size	P2 [kW] / [hp]	Frame size	B1	L1	L9	H CME (1, 3, 5)	H CME (10, 15, 25)	Change in weight [kg]	Imax [A]
1.5 / 2.0	90CC	1.5 / 2.0	90	4	-21	-21	-24	0	-7	2.5
2.2 / 3.0	90FA	2.2 / 3.0	90	4	-61	-61	-24	-9	-11	3.8

3-phase (3 x 200-230 V) 3-phase (3 x 208-230 V)		Change in dimensions [mm]					New current values	
P2 [kW]	Frame size	B1	L1	L9	H CME (1, 3, 5)	H CME (10, 15, 25)	Imin [A]	Imax [A]
1.1	90	No change, existing motor will continue.						
1.5	90							
2.2	90							

The change in dimensions/weight should be added to or subtracted from the current values to get the new dimensions/weight.

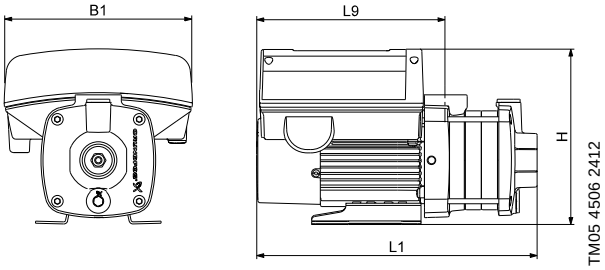

Fig. 2 CME cast iron

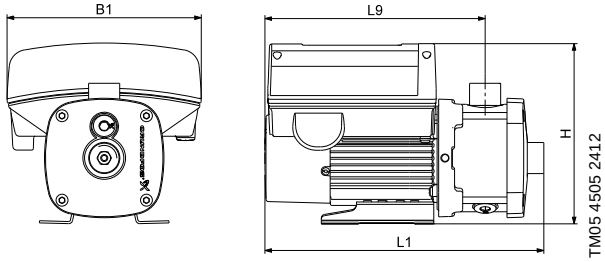

Fig. 3 CME stainless steel

98347568 0413
ECM: 1110776

Subject to alterations.

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