

LMS/LDS series

IEC electric motor range from size 100 up to size 315



BELL-HOUSING & COUPLING SIZING

A GUIDE TO SELECT THE CORRECT BELL-HOUSING AND DRIVE COUPLING

DATA REQUIRED

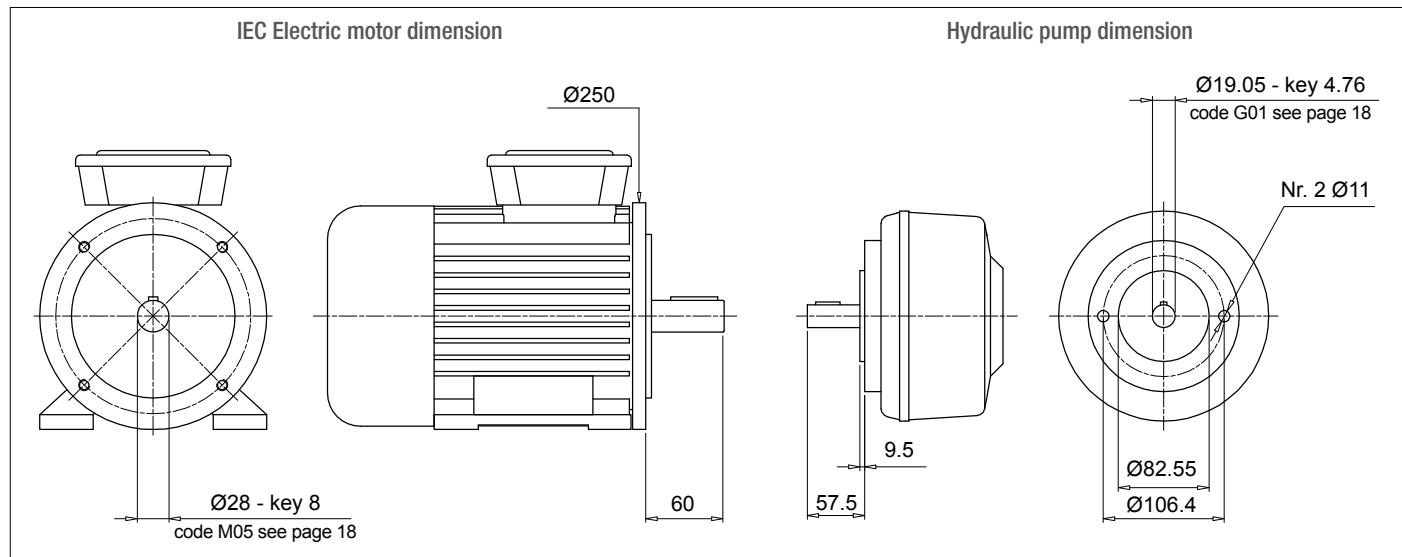
- Electric motor power/motor size
- Manufacturer and pump type

TO VERIFY:

- 1 - Pump and motor shaft dimensions (see electric motor data sheet)
- 2 - Shaft and flange pump (see pump data sheet)

Example:

- Electric motor 2.2 kW - size 100-112
- Atos pump code PFE31 - Shaft 1



Bell-Housing's length calculation

- $H = 60 + 18 + 57.5 = 135.5 \text{ mm}$ ($18 = \text{Sp spider}$ - see page 31)
- Choose type of bell-housing (LMC - LMS):
For monobloc bell-housing LMC/LDC series see pages 71 ÷ 77
For Low noise bell-housing LMS/LDS series see pages 79 ÷ 85
For Multi-components 2-3 bell housing series see pages 87 ÷ 107

Note:

The length of bell-housing must be \geq than the length calculated (135.5 mm)

Case A

Solution with monobloc bell-housing series **LMC/LDC**

Pages 71 ÷ 77 for IEC Electric motor size 100-112 - LMC250

LMC 250 bell-housing with height ≥ 135.5 - LMC250AFSQ

The bell-housing code must be completed with pump drilling code (see pages 56-57).
For the specific case:

Spigot hole 82.55 - PCD 106.4 - Nr.2 holes M10 : Drilling code 060

Definitive bell-housing code **LMC250AFSQ060**

Case B

Solution with low noise bell-housing series **LMS/LDS**

Pages 79 ÷ 85 for IEC Electric motor size 100-112 - LMS250

LMS 250 bell-housing with height ≥ 135.5 - LMS250AFSA

The bell-housing code must be completed with pump drilling code (see pages 56-57).
For the specific case:

Spigot hole 82.55 - PCD 106.4 - Nr.2 holes M10 : Drilling code 060

Definitive bell-housing code **LMS250AFSA060**

BELL-HOUSING & COUPLING SIZING

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Coupling selection

Motor half-coupling (see page 26)

For IEC Electric motor size 100/112, the half-coupling is **SGEA21M05060FG**

Spider (see page 31)

For SGEA21, EGE2 - EGE2RR

(choose spider material on the base of the application, oil, temperature and cycle machine, etc.)

Pump half-coupling

Choose the drilling code - see pages 18-19 for shaft 19.05 - key 4.76 - code: **G01**

Pump half-coupling length = BH length - THK Spider - THK Spigot

$$LMC = 138 \text{ mm} - 60 - 18 - 9.5 = 50.5 \text{ mm}$$

$$LMS = 148 \text{ mm} - 60 - 18 - 9.5 = 60.5 \text{ mm}$$

LMC - Choose the half-coupling's length at page 26 \leq 50.5 mm.

LMS - Choose the half-coupling's length at page 26 \leq 60.5 mm.

LMC - Available length for SGEA21 = 50 mm

LMS - Available length for SGEA21 = 60 mm

Half coupling for LMC: **SGEA21G01050FG**

Half coupling for LMS: **SGEA21G01050FG**

SOFTWARE FOR AUTOMATIC CALCULATION

available on the web site www.mpfiltrli.com

The screenshot shows a software interface for selecting pump components. At the top, there are three tabs: 'PRODUCT SELECTION' (highlighted in blue), 'POWER TRANSMISSION SOFTWARE' (highlighted in orange), and 'FILTER SIZING SOFTWARE'. Below these tabs are four buttons: 'SELECTION FROM PUMP MANUFACTURER' (blue), 'SELECTION FROM SHAFT / FLANGE DATA'S (light blue), 'SELECTION WITH PUMP DATA ENTRY' (light blue), and 'SELECTION FROM KIT CODE' (orange). The main area contains several input fields and dropdown menus. On the left, there is a 'ELECTRIC MOTOR DATA' section with fields for 'N. Poles' (dropdown menu), 'L:' (input field), 'D:' (input field), 'Fig.: (input field), 'Ch:' (input field), 'Motor frame' (dropdown menu), 'Size' (input field), 'Power Kw' (input field), and 'Power Hp' (input field). To the right of the 'ELECTRIC MOTOR DATA' section, there is a large input field labeled 'Pump type :'. Below the 'Pump type' field, there is a 'Pump code:' field with a dropdown menu. The entire interface has a clean, modern design with a white background and blue/gray accents.

Note: for multi pumps we recommend to use a specific support on the base of the pump's dimensions and weight.

Step 1 Select “POWER TRANSMISSION SOFTWARE” after login



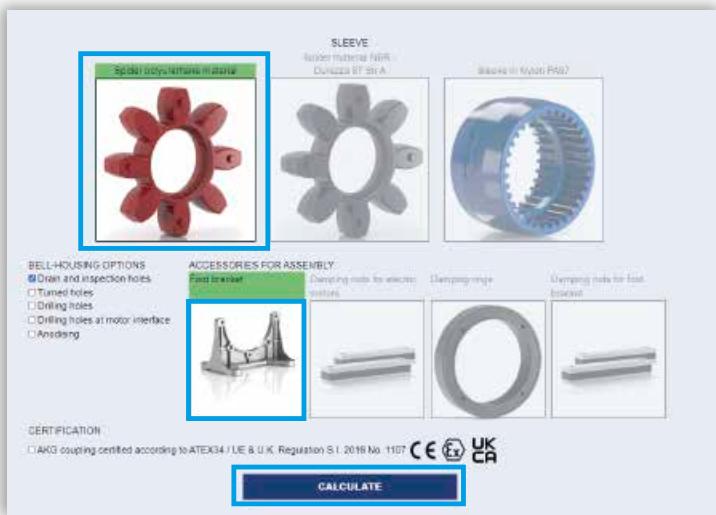
Step 2 Choose Manufacturer: select “Pump type” and “Pump code”

The screenshot shows the "POWER TRANSMISSION SOFTWARE" interface. At the top, there are tabs for PRODUCT SELECTION, POWER TRANSMISSION SOFTWARE, and FILTER SIZING SOFTWARE. The "POWER TRANSMISSION SOFTWARE" tab is active. The interface is divided into four main sections: "SELECTION FROM PUMP MANUFACTURER", "SELECTION FROM SHAFT / FLANGE DATA", "SELECTION WITH PUMP DATA ENTRY", and "SELECTION FROM KIT CODE". The "SELECTION FROM PUMP MANUFACTURER" section is highlighted with a blue border. It contains dropdown menus for "Manufacturer" (set to ATOS), "Pump type" (set to FFE), and "Pump code" (set to FFE 11 - 31 mm joint / 1). Below these fields is a technical drawing of a bell housing assembly. To the right, there is a "ELECTRIC MOTOR DATA" section with fields for "N. Poles", "Motor frame", "Size", "Power Kw", and "Power Hp".

Step 3 Choose N Poles of “Electric motors”: select “Motor frame” and “Size”

The screenshot shows the "POWER TRANSMISSION SOFTWARE" interface. The "POWER TRANSMISSION SOFTWARE" tab is active. The "ELECTRIC MOTOR DATA" section is highlighted with a blue border. It contains dropdown menus for "N. Poles" (set to 4P), "Motor frame" (set to B3-B5), and "Size" (set to 100L). Below these fields are input fields for "Power Kw" and "Power Hp". To the right, there is a technical drawing of a motor assembly.

Step ④ Choose the insert and eventual Bell-Housings option and accessories for assembly: click on "CALCULATE"



Step ⑤ Select the option requested and download the report.



Step ⑥ Download PDF



You can't find the pump on the system?

NEW FEATURE!!

Insert pump's dimension on the section

"SELECTION WITH PUMP DATA ENTRY"

and follow the instructions to achieve

the couplings components code

The screenshot shows the 'SELECTION WITH PUMP DATA ENTRY' section of the software. It includes fields for 'Shaft Type' (Cylindrical shafts table, Splined shafts table, Drillings chart), 'L1', 'D', 'Ch.', 'Thickness', 'Spigot', 'Int.', 'Nr.', 'Fig.', 'On', and 'ELECTRIC MOTOR DATA' (N. Polos, Motor frame, Size, Power Kw, Power Hp). A blue arrow points from the text above to the 'SELECTION WITH PUMP DATA ENTRY' section.

Noise is a particularly pervasive problem so much so that there have been statutory regulations in place now for some years, designed to limit harmful occupational exposure.

Many of the machines used in industry today are equipped with oil-hydraulic systems, which happen to be a major source of noise.

① THEORY AND DEFINITION OF NOISE

From a health and hygiene standpoint, noise can be defined as an unpleasant and undesirable sound, or an unpleasant and annoying or intolerable auditory sensation (noise being any sound phenomena that may be accompanied by sensations of disturbance and pain). By definition, acoustic phenomena are oscillatory in character, propagated in a flexible medium and causing pressure variations at the points, and the areas adjacent to those points, through which they pass.

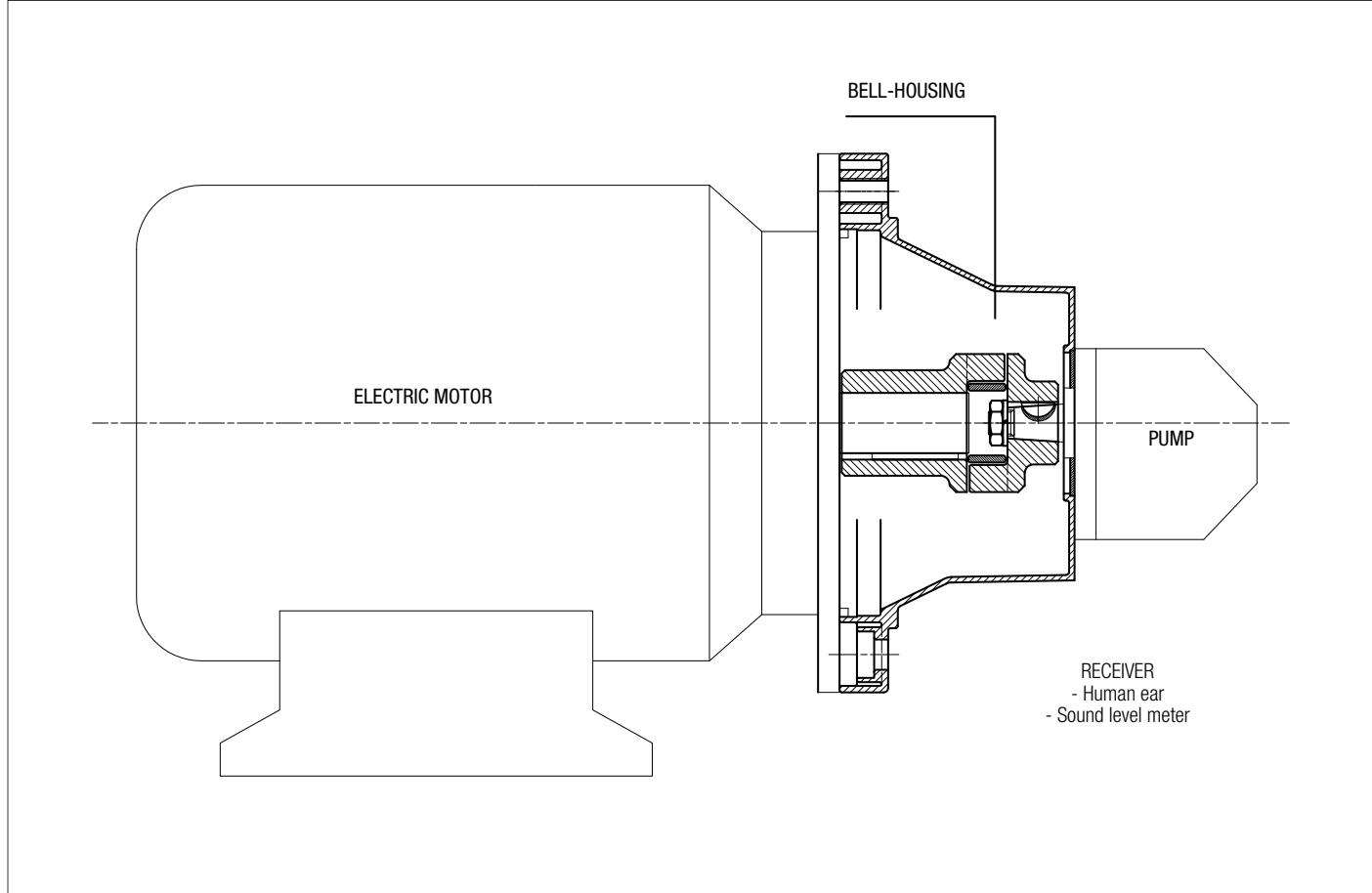
② SOUND

Technically considered, certain elements must be present simultaneously for acoustic phenomena to occur:

- Sound source
- Transmission medium
- Receive

The electric motor and the pump, together with the drive coupling, are the SOURCE OF THE NOISE. The Bell-housing is the noise transmission MEDIUM. Depending on whether the monobloc bell-housing is a rigid or low noise type, there will be variations in the flexible properties of the transmission medium. The acoustic phenomena are dissimilar in the two cases, given the differences in pressure variation and particle displacement.

MOTOR AND PUMP UNIT



Low noise bell-housing will help to attenuate the transmission of vibrations and the emission of noise generated by the system. Self-evidently, however, the mere adoption of a low noise bell-housing will achieve little unless the motor and pump are correctly installed on the machine or on the tank of the hydraulic power unit.

Should be followed in order to achieve best possible results and correct installation:

① MOTOR AND PUMP UNIT MOUNTED HORIZONTALLY ON OIL TANK LID

- The suction pipe attached to the pump must be rigid and fitted using a resilient bulkhead flange of the FTA series, which helps to cushion the vibrations propagated between the pipe and the tank lid. If pipes need to be bent, the radius of curvature must be at least 3 times the pipe diameter. Do not use elbow fittings, as these will significantly increase pressure losses.
- The pressure pipeline of the pump must be flexible and long enough to include bends with the minimum radius of curvature recommended by the manufacturer for the specified operating pressure.
- The return pipeline running from the service to the filter must be flexible. Where oil is returned directly to the tank of the hydraulic power unit through a rigid pipe, it is advisable to use a resilient bulkhead flange of the FTR series, which helps to cushion the vibrations propagated between the pipe and the tank lid.
- Anti-vibration devices (resilient mounts or damping rods) must be located under the feet of the electric motor or the PDM foot brackets, depending on the mounting position of the motor.
- The lids of hydraulic oil tanks must be sturdy enough to support the load they carry.

② MOTOR AND PUMP UNIT MOUNTED HORIZONTALLY ON MACHINE

- As a matter of good practice, the oil tank and motor-pump unit should be mounted on a single supporting frame of strength sufficient to support the load.
- If the hydraulic system is fitted with a side-mounted filter, the suction pipeline to the pump must be flexible and long enough to include bends with the minimum radius of curvature recommended by the manufacturer.
- If the suction filter is not side mounted, the pipeline should be rigid and installed in conjunction with a compensating coupling.
- The pressure pipeline of the pump must be flexible, and long enough to include bends with the minimum radius of curvature recommended by the manufacturer for the specified operating pressure.
- The return pipeline running from the service to the filter must be flexible. Where oil is returned directly to the tank of the hydraulic power unit through a rigid pipe, it is advisable to use a resilient bulkhead flange of the FTR series, which helps to cushion the vibrations propagated between the pipe and the tank lid.
- Anti-vibration devices (resilient mounts or damping rods) must be located under the feet of the electric motor or the PDM foot brackets, depending on the mounting position of the motor.

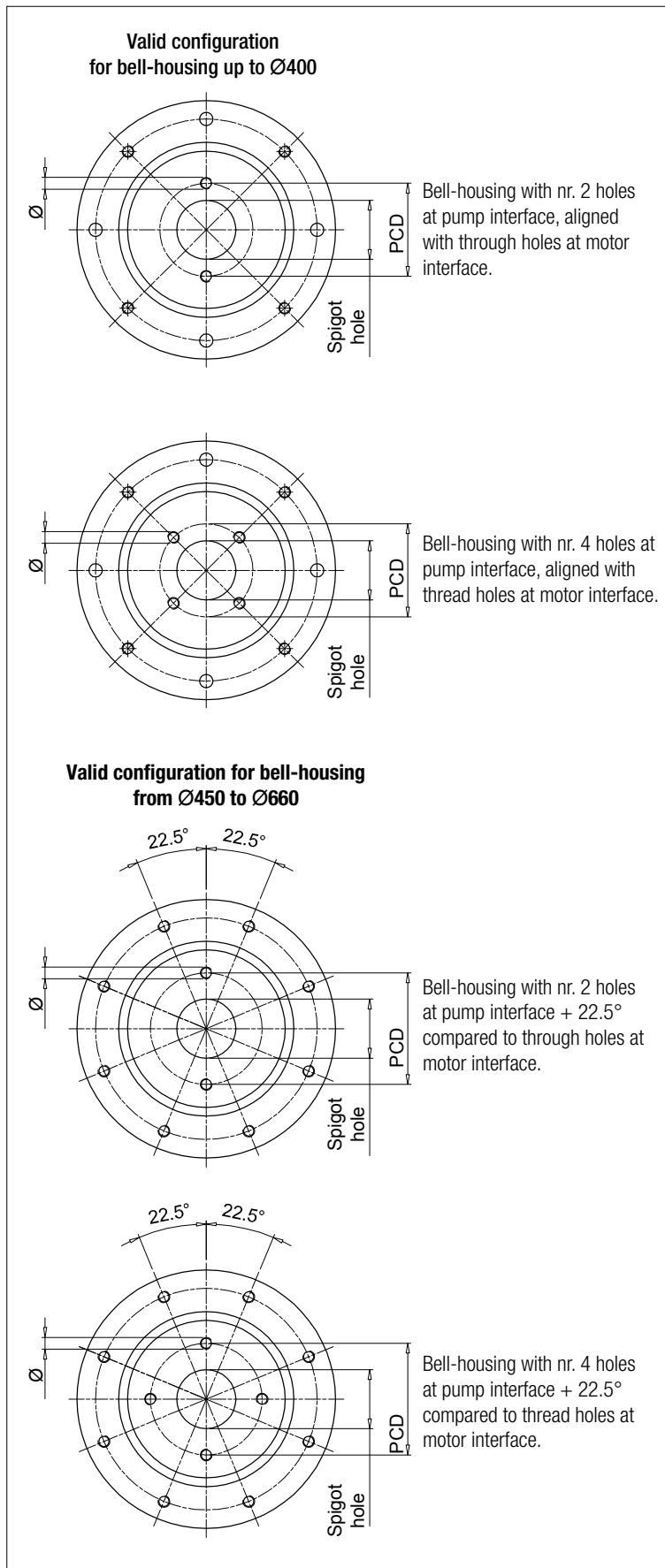
FINAL CONSIDERATION

For best results, in any event, the motor-and-pump unit should be incorporated into the hydraulic system in such a way that no one component is rigidly associated with another, resulting in the propagation of vibration, and consequently noise.

RECOMMENDED TIGHTENING TORQUES FOR MOTOR/PUMP FIXING ON THE BELL-HOUSING

M6	10 N·m	M16	205 N·m
M8	15 N·m	M18	280 N·m
M10	50 N·m	M20	400 N·m
M12	84 N·m	M22	530 N·m
M14	135 N·m	M24	690 N·m

Note: The above guidelines are indicative only and subordinate to the solutions adopted ultimately by design engineers.



Spigot hole [mm]	PCD	Ø	Nr. holes	Code	Type
40	72.00	M8	2	191	-
	88.90	M8	4	096	-
45.2	71.80	M8	4	120	-
	80.00	M8	2	052	ISO 3019-2-50-B2
	93.00	M10	2	053	-
50	60.00	M5	4	280	-
	63.00	Ø7	4	057	-
	93.00	M8	2	287	-
50.8	82.50	M8	2	050	SAE A-A 50-2
56	76.00	M6	4	234	-
57.15	106.40	Ø11	2	212	-
	74.00	M10	4	098	-
60	98.50	M6	4	147	-
	75.00	M6	4	227	-
62.7	157.20	M12	4	231	-
	100.00	M8	2	042	ISO 3019-2-63-B2
	125.00	M6	4	043	-
	85.00	M8	4	044	-
63	80.00	M8	2	051	-
	80.00	Ø8.5	4	058	-
	100.00	M10	2	062	-
	85.00	M8	4	168	ISO 3019-2-63-B4
	90.00	M8	4	271	-
65	90.00	M8	4	073	-
70	84.00	Ø7	4	289	-
71.8	88.90	M10	4	047	-
75	102.00	M10	4	139	-
	100.00	M8	4	024	ISO 3019-2-80-B4
	103.20	M8	2	045	ISO 3019-2-80-B2
	100.00	Ø11	4	059	-
	100.00	M10	2	061	-
	110.00	M10	2	063	-
80	140.00	M10	2	064	-
	115.00	M10	2	065	-
	100.00	M10	4	067	-
	106.40	M10	2	083	-
	130.00	M8	4	087	-
	100.00	Ø8.5	4	093	-
	113.00	M12	4	104	-
	95.00	M8	4	169	-
	103.00	M8	4	242	-
	110.00	M10	4	272	-
	106.40	M10	2	060	SAE A 82-2
	105.00	M10	4	097	-
82.55	106.40	M8	2	254	-
	146.00	M12	2	260	-
	110.00	M10	2	284	-
85	106.40	M10	2	066	-
	112.00	M8	2	134	-
90	105.00	M8	4	156	-
	118.00	Ø9	2	163	-
	112.00	Ø9	2	164	-
	140.00	M8	4	088	-
92	145.00	M10	4	089	-

"-": configuration out of ISO & SAE Standard

Spigot hole [mm]	PCD	Ø	Nr. holes	Code	Type
95	115.00	M8	4	137	-
	127.00	M10	4	131	-
98.4	125.00	Ø11	4	128	-
	125.00	M10	2	023	ISO3019-2-100-B4
100	125.00	M10	4	025	ISO3019-2-100-B2
	125.00	Ø11	4	031	-
	125.00	M5	4	032	-
	190.00	Ø15	4	038	-
	125.00	Ø13	4	041	-
	125.00	M12	2	071	-
	140.00	M12	2	072	-
	146.00	M12	2	075	-
	126.00	M10	2	106	-
	120.00	M8	4	122	-
101.6	160.00	M10	4	141	-
	150.00	M10	4	150	-
	161.50	M12	4	029	-
	146.00	M12	2	070	SAE B 101-2
105	127.00	M12	4	125	-
	146.00	M10	2	159	-
	127.00	M10	4	224	-
	146.00	M12	2	076	-
110	175.00	M10	4	110	-
	130.00	M8	4	154	-
	200.00	M10	4	202	-
112	135.00	M10	4	219	-
	145.00	M12	4	273	-
	140.00	M12	2	074	-
115	140.00	M10	2	138	-
	130.00	M10	4	264	-
116	180.00	M12	4	198	-
120	160.00	M14	2	084	-
	210.00	M16	2	094	-
	145.00	M10	4	155	-
125	150.00	Ø13	4	267	-
	160.00	M12	4	026	ISO3019-2-125-B4
	160.00	Ø13	4	033	-
	160.00	M12	2	079	-
	180.00	M16	2	082	ISO3019-2-125-B2
	155.00	M10	4	102	-
	160.00	Ø17	4	113	-
	200.00	M12	4	114	-
	181.20	M16	2	136	-
	200.00	M16	4	200	-
127	180.00	Ø20	4	215	-
	170.00	Ø18	4	237	-
	161.50	M12	4	021	-
130	181.20	M16	2	080	SAE C 127-2
	161.50	M14	4	140	-
	165.00	Ø11	4	054	-
130	150.00	M12	4	068	-
	181.20	M16	2	085	-
	165.00	M12	4	124	-
	165.00	M14	4	135	-

"-": configuration out of ISO & SAE Standard

Spigot hole [mm]	PCD	Ø	Nr. holes	Code	Type
130	165.00	M10	4	253	-
	127.00	M10	4	151	-
135	175.40	M12	4	220	-
	180.00	M14	4	077	ISO3019-2-140-B4
140	180.00	M12	2	081	-
	165.00	M10	4	157	-
150	200.00	M16	4	176	ISO3019-2-140-B2
	165.00	Ø11	4	223	-
152.4	180.00	M16	2	232	-
	185.00	M16	4	069	-
152.4	228.60	M16	4	022	-
	228.60	M18	2	090	-
160	228.60	M18	4	108	-
	217.50	Ø17	4	118	-
160	228.60	M20	2	166	SAE D 152-2
	228.60	M20	4	192	SAE D 152 -4
	190.50	M8	4	207	-
	200.00	M16	4	027	ISO3019 - 2-160 B4
160	200.00	Ø17	4	035	-
	200.00	M16	2	091	-
	224.00	M20	2	092	ISO3019 - 2-160 B2
	200.00	M12	2	107	-
162	230.00	M22	4	111	-
	185.00	M12	4	152	-
	224.00	M16	4	184	-
	230.00	Ø22	4	228	-
165.1	188.00	M12	4	263	-
	317.35	M20	4	143	SAE E 165 - 4
	317.35	M24	2	145	SAE E 165 - 2
	229.00	M20	4	201	-
175	317.35	M18	4	204	-
	200.00	M12	4	153	-
	230.00	M18	2	185	-
	350.00	M24	4	146	SAE F 177 - 4
177.8	216.00	M12	4	222	-
	350.00	M24	2	203	SAE F 177 - 2
	216.00	Ø13	4	055	-
	216.00	M16	4	078	-
180	224.00	M16	4	112	ISO3019 - 2-180 B4
	216.00	M12	4	132	-
	215.00	M22	4	148	-
	230.00	M22	4	226	-
200	250.00	M20	4	028	ISO3019 - 2-200 B4
	250.00	Ø22	4	095	-
	280.00	M24	2	117	-
	230.50	M12	4	214	-
203.2	254.00	M14	4	210	-
	240.00	M16	4	133	-
	280.00	M20	4	144	ISO3019 - 2-224 B4
	280.00	Ø22	4	205	-
250	310.00	M24	4	238	-
	315.00	M20	4	282	ISO3019 - 2-250 B4
	355.00	M16	4	233	-
	355.00	Ø18	4	281	-

"-": configuration out of ISO & SAE Standard

LMS/LDS series

IEC electric motor range from size 100 up to size 315



Technical data

Bell-Housing - IEC electric motor range from size 100 up to size 315

Materials

- Motor base bell-housing: Pressure die-cast aluminium alloy
- Pump flange: Pressure die-cast aluminium alloy
- Internal ring: Pressure die-cast aluminium alloy
- Damping ring: Vulcanized aluminium + NBR 75 Shore A

Temperature

From -30 °C to +80 °C

Note

For temperatures outside this range, contact
MP Filtri Technical and Sales Department

Compatibility with fluids

Modular bell-housing components compatible for use with:

- Mineral oils types HH-HL-HM-HR-HV, to ISO 6743/4 standard
- Water based emulsions types HFAE-HFAS, to ISO 6743/4 standard
- Water glycol type HFC, to ISO 6743/4 standard: ask for anodized version

Special Applications

Any applications not covered by the normal indications contained in this catalogue must be evaluated and approved by MP Filtri Technical and Sales Department



Bell-Housing size	Flange ISO 3019-2							IEC Motors size	Range
	50 B2-B4	63 B2-B4	80 B2-B4	100 B2-B4	125 B2-B4	160 B2-B4	200 B2-B4		
LMS250	●	●	●	●	●			IEC 100 Ø250 - Ø28x60	
LMS250	●	●	●	●	●			IEC 112 Ø250 - Ø28x60	
LMS300		●	●	●	●	●		IEC 132 Ø300 - Ø38x80	
LMS350		●	●	●	●	●		IEC 160 Ø350 - Ø42x110	
LMS350		●	●	●	●	●	●	IEC 180 Ø350 - Ø48x110	
LMS400		●	●	●	●	●	●	IEC 200 Ø400 - Ø55x110	
LMS450		●	●	●	●	●	●	IEC 225 Ø450 - Ø60x140	
LMS550				●	●	●	●	IEC 250 Ø550 - Ø65x140	
LMS550				●	●	●	●	IEC 280 Ø550 - Ø75x140	
LMS660				●	●	●	●	IEC 315 Ø660 - Ø80x170	

Bell-Housing size	Flange SAE J 744										IEC Motors size
	50-2 (A-A)	82-2 (A)	101-2 (B)	127-2 (C)	152-2 (D)	165-2 (E)	101-4 (B)	127-4 (D)	152-4 (D)	165-4 (E)	
LMS250	●	●	●				●				IEC 100 Ø250 - Ø28x60
LMS250	●	●	●	●			●				IEC 112 Ø250 - Ø28x60
LMS300	●	●	●	●			●	●			IEC 132 Ø300 - Ø38x80
LMS350	●	●	●	●			●	●			IEC 160 Ø350 - Ø42x110
LMS350	●	●	●	●	●		●	●	●	●	IEC 180 Ø350 - Ø48x110
LMS400	●	●	●	●	●	●	●	●	●	●	IEC 200 Ø400 - Ø55x110
LMS450		●	●	●	●	●	●	●	●	●	IEC 225 Ø450 - Ø60x140
LMS550		●	●	●	●	●	●	●	●	●	IEC 250 Ø550 - Ø65x140
LMS550		●	●	●			●	●	●	●	IEC 280 Ø550 - Ø75x140
LMS660		●	●	●			●	●	●	●	IEC 315 Ø660 - Ø80x170

LMS/LDS

Designation & Ordering code

LMS

Bell-Housing series and size	
LMS250AFSA	LMS400AFSL
LMS250AFSB	LMS400AFSM
LMS300AFSC	LMS400AFSN
LMS300AFSD	LMS450AFSO
LMS300AFSE	LMS550AFSP
LMS350AFSF	LMS550AFSR
LMS350AFSG	LMS660AFST
LMS350AFSH	

Configuration example: **LMS250AFSA** **070** **DI**

Pump interface codes

070 See page 56

Options

DI	Drain hole + inspection hole
FR	Holes rotated through 45° in relation to standard position
DP	Double set of hole
AN	Black anodized finish
SA	Clearance holes at motor interface
Pxx	Customer specification

LDS

Bell-Housing series and size	
LDS250AFRA	LDS450AF6A
LDS250AFBB	LDS550AF6A
LDS250AFRE	LDS660AF6A
LDS300AFRB	
LDS300AFRC	
LDS300AF5G	
LDS350AF5A	
LDS400AF6A	

Configuration example: **LDS250AFRA** **070** **DI**

Pump interface codes

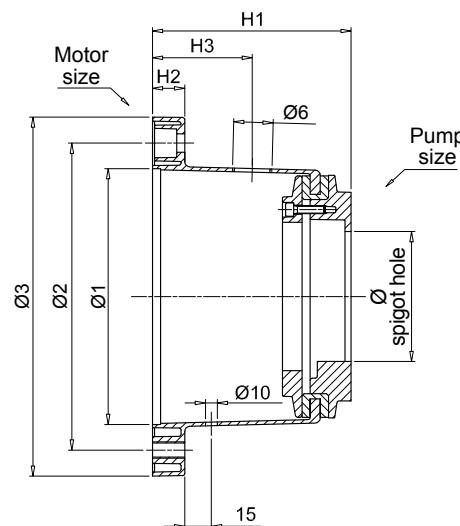
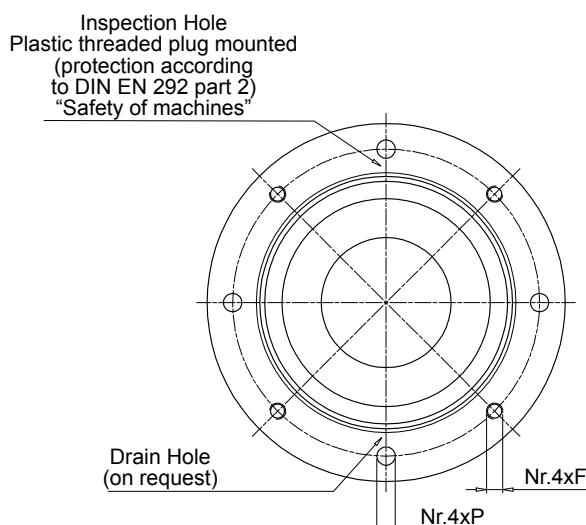
070 See page 56

Options

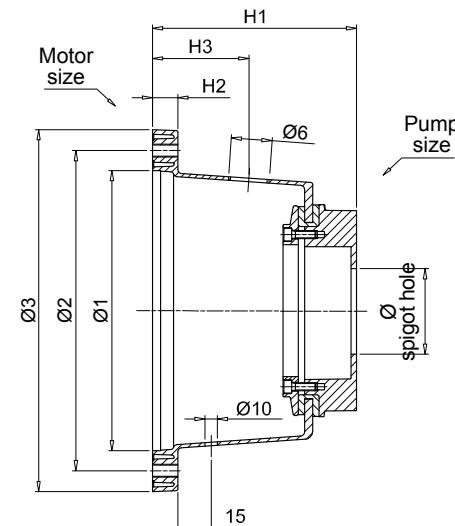
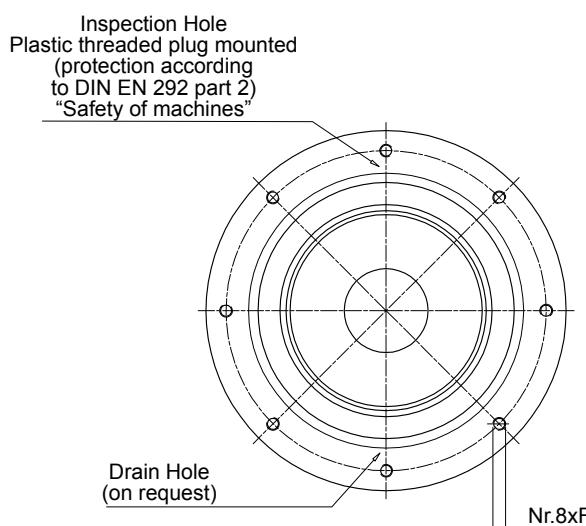
DI	Drain hole + inspection hole
FR	Holes rotated through 45° in relation to standard position
DP	Double set of hole
AN	Black anodized finish
SA	Clearance holes at motor interface
Pxx	Customer specification

Note:

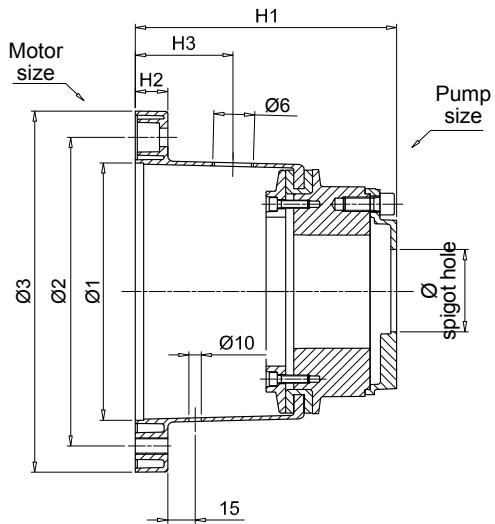
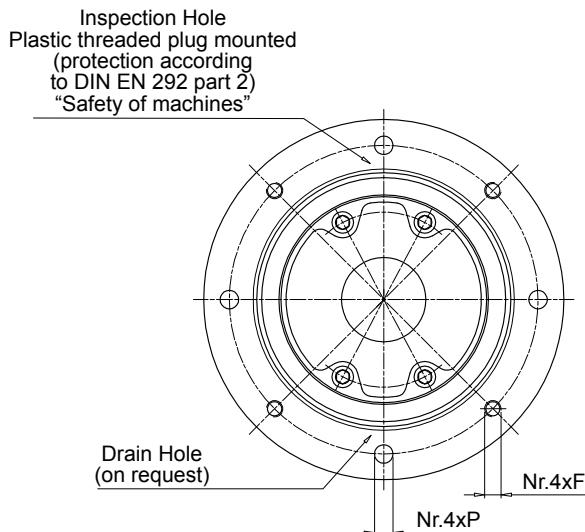
- Bell-housings with DI options are supplied complete with threaded closure plug.
- For customization features other than those indicated on this page, contact MP Filtri Technical and Sales Department.



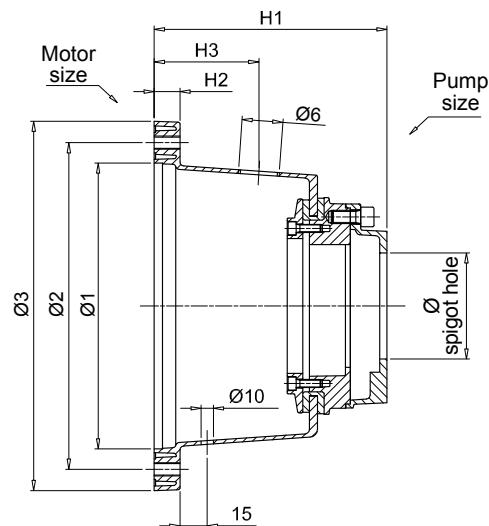
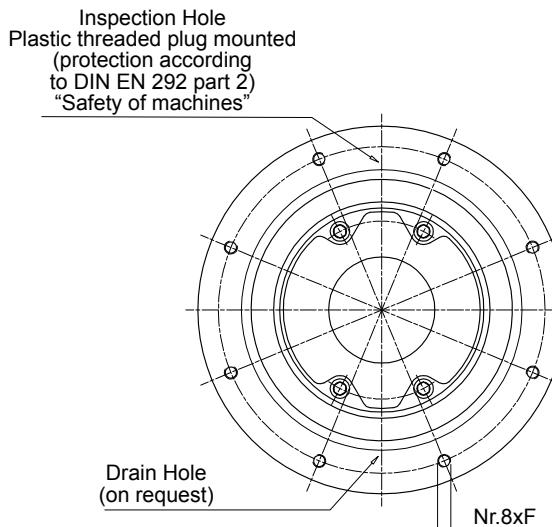
IEC - Electric motors Motor size	Shaft end [$\varnothing \times L$]	Bell-housing code	$\varnothing 1$	$\varnothing 2$	Dimensions [mm]			F	P	On request H3	$\varnothing 6$	\varnothing spigot hole Minimum [mm]	Weight [kg]
			$\varnothing 3$	H1	H2								
100 - 112	28x60	LMS250AFSA***	180	215	250	128	19	M12	14	75	3/4"	50	3.72
		LMS250AFSB***	180	215	250	148	19	M12	14	75	3/4"	50	4.10
132	38x80	LMS300AFSC***	230	265	300	155	23	M12	14	80	3/4"	50	4.20
		LMS300AFSD***	230	265	300	168	23	M12	14	80	3/4"	80	4.45
160	42x110	LMS300AFSE***	230	265	300	194	23	M12	14	80	3/4"	80	6.51
		LMS350AFSF***	250	300	350	204	31	M16	18	95	1"	80	6.80
180	48x110	LMS350AFSG***	250	300	350	228	31	M16	18	95	1"	80	7.10
		LMS350AFSH***	250	300	350	204	31	M16	18	95	1"	80	8.51
200	55x110	LMS400AFS***	300	350	400	228	31	M16	18	125	1 1/2"	80	8.80
		LMS400AFSM***	300	350	400	256	31	M16	18	125	1 1/2"	80	9.10
		LMS400AFSN***	300	350	400	240	31	M16	18	125	1 1/2"	80	11.61



IEC - Electric motors Motor size	Shaft end [$\varnothing \times L$]	Bell-housing code	$\varnothing 1$	$\varnothing 2$	Dimensions [mm]			F	P	On request H3	$\varnothing 6$	\varnothing spigot hole Minimum [mm]	Weight [kg]
			$\varnothing 3$	H1	H2								
225	60x140	LMS450AFS0***	350	400	450	255	31	M16	-	175	1 1/2"	80	12.1
250	65x140	LMS550AFSP***	450	500	550	255	31	M16	-	176	1 1/2"	80	15.2
280	75x140	LMS550AFSR***	450	500	550	270	31	M16	-	177	1 1/2"	80	15.9
315	80x170	LMS660AFST***	550	600	660	305	42	M20	-	179	1 1/2"	80	20.2



IEC - Electric motors Motor size	Shaft end [Ø x L]	Bell-housing code	Dimensions [mm]							On request H3	Ø spigot hole Minimum [mm]	Weight [kg]	
			Ø1	Ø2	Ø3	H1	H2	F	P				
100 - 112	28x60	LDS250AFRA***	180	215	250	158	19	M12	14	75	3/4"	50	3.97
		LDS250AFRB***	180	215	250	165	19	M12	14	75	3/4"	50	4.10
		LDS250AFRE***	180	215	250	173	19	M12	14	75	3/4"	50	4.70
132	38x80	LDS300AFRB***	230	265	300	185	23	M12	14	80	3/4"	50	4.75
		LDS300AFRC***	230	265	300	188	23	M12	14	80	3/4"	80	4.85
		LDS300AF5G***	230	265	300	232	23	M12	14	80	3/4"	80	6.70
160	42x110	LDS350AF5A***	250 300 350 254 31 M16 18							95	1"	80	8.10
180	48x110												
200	55x110	LDS400AF6A***	300	350	400	288	31	M16	18	125	1 1/2"	80	10.00



IEC - Electric motors Motor size	Shaft end [$\varnothing \times L$]	Bell-housing code	Dimensions							On request H3	\varnothing spigot hole Minimum [mm]	Weight [kg]	
			$\varnothing 1$	$\varnothing 2$	$\varnothing 3$	H1	H2	F	P				
225	60x140	LDS450AF6A***	350	400	450	287	31	M16	-	175	1 1/2"	80	14.10
250	65x140												
280	75x140	LDS550AF6A***	450	500	550	300	31	M16	-	176	1 1/2"	80	17.20
315	80x170	LDS660AF6A***	550	600	660	335	42	M20	-	179	1 1/2"	80	23.00

Comparative table

MP Filtri code	KTR code	OMT code	Raja code
LMS250A***	PK+D150/190	BS251***	R250***DF
LMS300A***	PK+D150/190	BS300***	R300***DF
LMS350A***	PK+D150/D190/D230/260	BS350***	R350***DF
LMS400A***	PK+/D190/D230/260	BS400***	R400***DF
LMS450A***	PK+/D190/D230/260D/D330	BS451***	R450***DF
LMS550A***	PK+/D190/D230/260D/D330	BS551***	R550***DF
LMS660A***	PK+/D190/D230/260D/D330	BS661***	R660***DF

Note:

The above table is guideline only.

Not all bell-housings are fully interchangeable.