

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

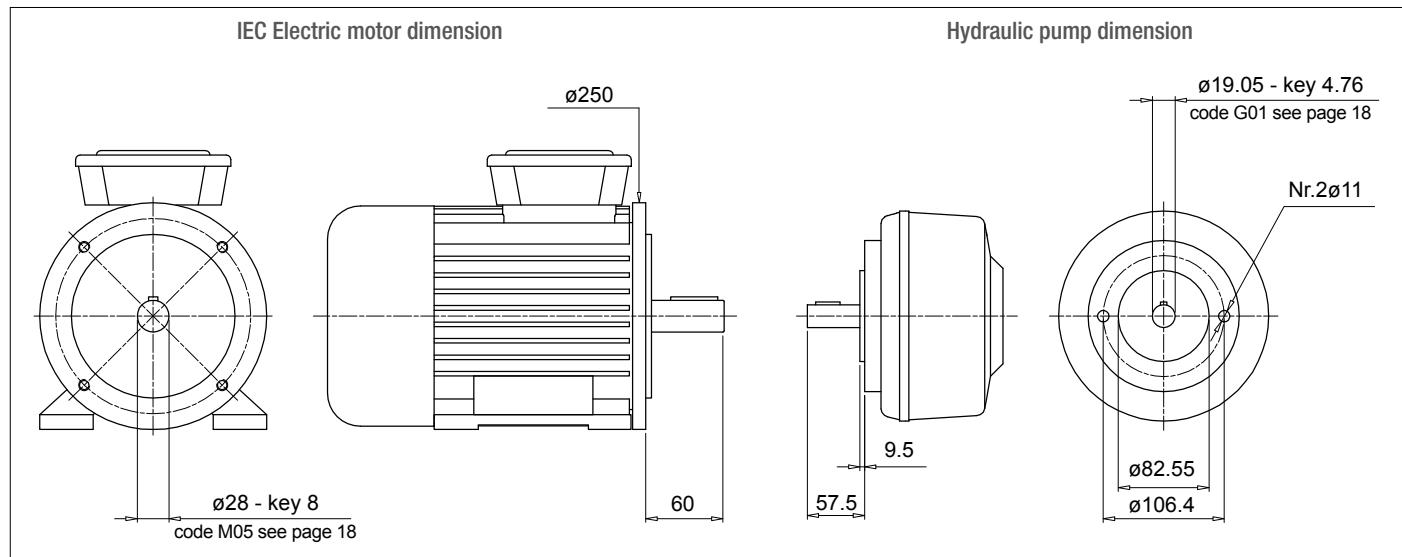
- Electric motor power/motor size
- Manufacturer and pump type

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 63 ÷ 69
For Low noise bell-housing LMS/LDS series see pages 71 ÷ 77
For Multi-components 2-3 bell housing series see pages 79 ÷ 99

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 63 ÷ 69 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 48-49).
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 71 ÷ 77 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 48-49).
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.mpfiltrri.com

Vane / Piston / Screw pumps

AKA AKMM03Z0066	HYDRAULIC PUMP - Technical Data
Pump	L1: 57.5 d1: 19.05 Ch: 4.76 S: 9.5 PD: 82.55 Int: 106 Nr: 2 F: M10
Electric Motor	ELECTRIC MOTOR - Technical Data
N. Poles: 2P Type: 83-85 Size: 100-112 Kw: 3-4 Hp: 4-5,44	L: 60 d1: 28 Flg.: 250 Ch: 8
Coupling material: <input checked="" type="radio"/> Aluminum <input type="radio"/> Cast Iron <input checked="" type="checkbox"/> Allow alternative material	
Result	Monobloc Bellhousing: Modular Bellhousing: Silenced Bellhousing:
Coupling: M03 - Z0066 Drilling Pump: S060 Pump Shaft: G01 Motor Shaft: M05	Monobloc Bellhousing: Pump half-coupling with grub screw For other solution please contact technical department
CLICK HERE TO PROCEED	Modular Bellhousing: OK Silenced Bellhousing: OK

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

Step 1 Select "BELL-HOUSING & COUPLING"

This screenshot shows the software's main interface. On the left, a sidebar lists categories like 'Bell Housing & Coupling', 'Gear boxes', 'Vane / Piston / Screw pumps', 'Description', and 'MP FILTRI POWER TRANSMISSION'. The central area displays 'HYDRAULIC PUMP - Technical Data' with dimensions L1=12, D1=25, D2=18, H1=140, M=2, and P=H12. Below it is 'ELECTRIC MOTOR - Technical Data' with dimensions L=130, D1=120, D2=100, H=1175, and G=12. A 'Result' section shows 'Coupling material: Aluminio', 'Driving Pump: Modular Bellhousing', and 'Pump shaft: Stamped Bellhousing'. A red box highlights the 'Bell Housing & Coupling' category in the sidebar. A red button at the bottom right says 'CLICK HERE TO PROCEED'.

Step 2 Choose Manufacturer:
select "Pump type" and "Pump model"

This screenshot shows the software after selecting 'BELL-HOUSING & COUPLING'. The 'Manufacturer' dropdown is set to 'BOSCH RIDGOTH', 'Pump type' to 'A39/SD', and 'Pump model' to 'A39/SD04S'. The 'Result' section now includes 'Driving Pump: 3072', 'Pump shaft: 002', and 'Motor shaft:'. A red box highlights the 'Manufacturer' dropdown. A red button at the bottom right says 'CLICK HERE TO PROCEED'.

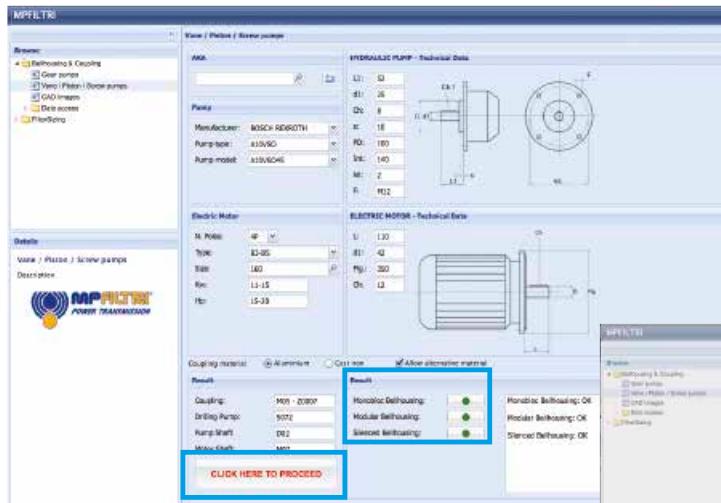
Step 3 Choose nr° of poles of "Electric motors":
select "Electric motors type" and "Electric motors size"

This screenshot shows the software after selecting 'BELL-HOUSING & COUPLING' and 'BOSCH RIDGOTH'. The 'Electric Motor' section shows 'S. Poles: 4P', 'Type: 60-65', 'Size: 180', 'Kw: 11.75', and 'Hp: 15.20'. The 'Result' section includes 'Coupling material: HDS - 2000T', 'Driving Pump: 3072', 'Pump shaft: 002', and 'Motor shaft: 407'. A red box highlights the 'S. Poles' dropdown. A red button at the bottom right says 'CLICK HERE TO PROCEED'.

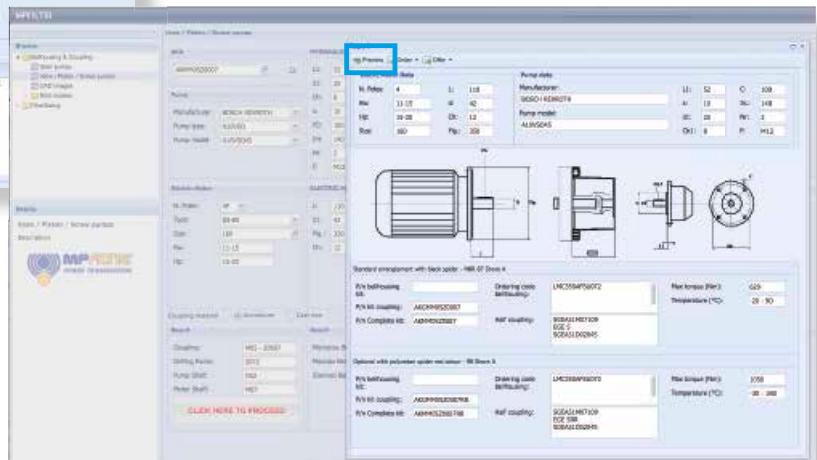
Step 4 Choose Coupling material

This screenshot shows the software after selecting all previous steps. The 'Result' section now includes 'Driving Pump: 3072', 'Pump shaft: 002', and 'Motor shaft: H07'. A red box highlights the 'Driving Pump' dropdown. A red button at the bottom right says 'CLICK HERE TO PROCEED'.

Step 5 Push “**CLICK HERE TO PROCEED**”, then choose best solution for your application.



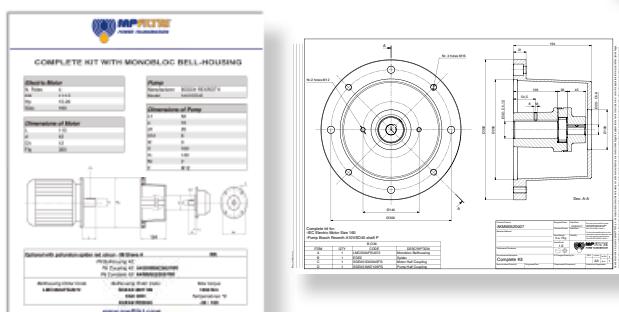
Step 6 Push “**PREVIEW**” to download the reports.



Step 7



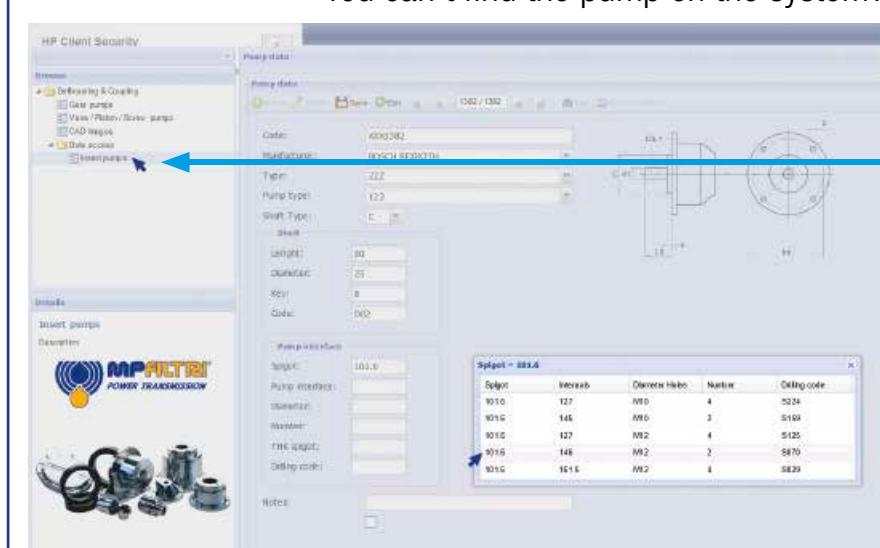
Download PDF
Datasheet and “DXF Drawing” of your selection



You can't find the pump on the system?

NEW FEATURE!!

Insert pump's dimension on the section
“**INSERT PUMP**” and follow the instructions
to achieve the couplings components code



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.

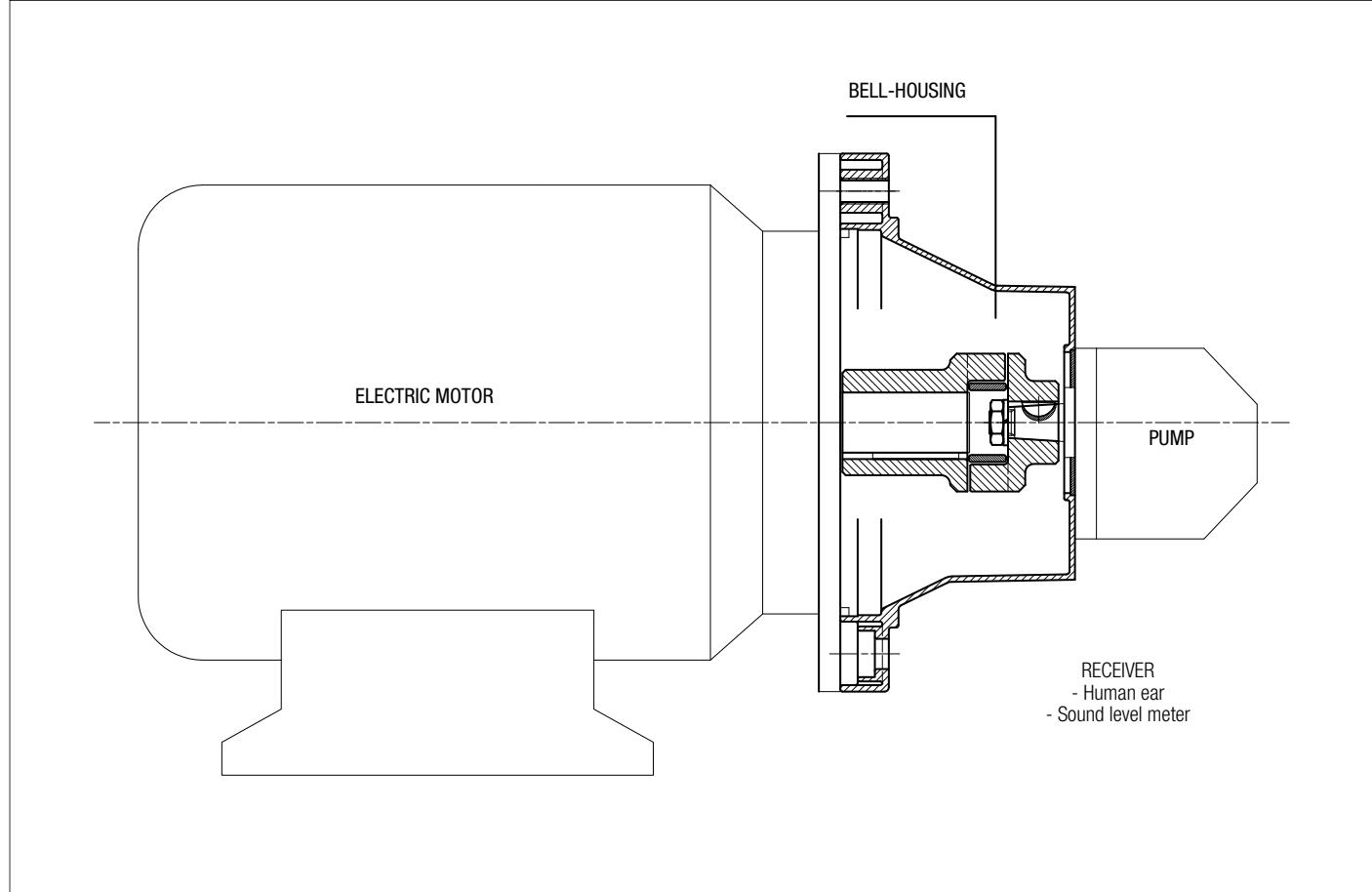
② SOUND

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.

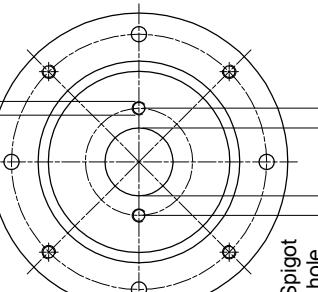
FINAL CONSIDERATION

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.

Valid configuration for bell-housing up to ø400					
 <p>Bell-housing with nr. 2 holes at pump interface, aligned with through holes at motor interface.</p>					
40	72.00	M8	2	191	-
	88.90	M8	4	096	-
45.2	71.80	M8	4	120	-
	80.00	M8	2	052	ISO3019-2-50-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	ISO3019-2-63-B2
	125.00	M6	4	043	-
63	85.00	M8	4	044	-
	80.00	M8	2	051	-
	80.00	ø8,5	4	058	-
	100.00	M10	2	062	-
	85.00	M8	4	168	ISO3019-2-63-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	ISO3019-2-80-B4
	103.20	M8	2	045	ISO3019-2-80-B2
80	100.00	ø11	4	059	-
	100.00	M10	2	061	-
	110.00	M10	2	063	-
	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	-
82.55	106.40	M10	2	060	SAE A 82-2
	105.00	M10	4	097	-
	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	D	Nr. holes	Code	Type
95	115.00	M8	4	137	-
	127.00	M10	4	131	-
98.4	125.00	ø11	4	128	-
100	125.00	M10	2	023	ISO3019-2-100-B4
	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	-
	160.00	M10	4	141	-
	150.00	M10	4	150	-
101.6	161.50	M12	4	029	-
	146.00	M12	2	070	SAE B 101-2
	127.00	M12	4	125	-
	146.00	M10	2	159	-
	127.00	M10	4	224	-
105	146.00	M12	2	076	-
110	175.00	M10	4	110	-
	130.00	M8	4	154	-
	200.00	M10	4	202	-
115	135.00	M10	4	219	-
	145.00	M12	4	273	-
	140.00	M12	2	074	-
112	140.00	M10	2	138	-
116	130.00	M10	4	264	-
	180.00	M12	4	198	-
	160.00	M14	2	084	-
120	210.00	M16	2	094	-
	145.00	M10	4	155	-
	150.00	ø13	4	267	-
125	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	-
	180.00	ø20	4	215	-
127	170.00	ø18	4	237	-
	161.50	M12	4	021	-
	181.20	M16	2	080	SAE C 127-2
	161.50	M14	4	140	-
130	165.00	ø11	4	054	-
	150.00	M12	4	068	-
	181.20	M16	2	085	-
	165.00	M12	4	124	-
	165.00	M14	4	135	-

Spigot hole [mm]	PCD	D	Nr. holes	Code	Type
130	165.00	M10	4	253	-
	160.00	M10	4	151	-
135	175.40	M12	4	220	-
140	180.00	M14	4	077	ISO3019-2-140-B4
	180.00	M12	2	081	-
	165.00	M10	4	157	-
	200.00	M16	4	176	ISO3019-2-140-B2
	165.00	ø11	4	223	-
	180.00	M16	2	232	-
150	185.00	M16	4	069	-
152.4	228.60	M16	4	022	-
	228.60	M18	2	090	-
	228.60	M18	4	108	-
	217.50	ø17	4	118	-
	228.60	M20	2	166	SAE D 152-2
	228.60	M20	4	192	SAE D 152 -4
160	190.50	M8	4	207	-
	200.00	M16	4	027	ISO3019-2-160 B4
	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	-
	188.00	M12	4	263	-
	317.35	M20	4	143	SAE E 165 - 4
165.1	317.35	M24	2	145	SAE E 165 - 2
175	229.00	M20	4	201	-
	317.35	M18	4	204	-
	200.00	M12	4	153	-
	230.00	M18	2	185	-
	350.00	M24	4	146	SAE F 177 - 4
	216.00	M12	4	222	-
177.8	350.00	M24	2	203	SAE F 177 - 2
180	216.00	ø13	4	055	-
	216.00	M16	4	078	-
	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
203.2	250.00	ø22	4	095	-
	280.00	M24	2	117	-
	230.50	M12	4	214	-
	254.00	M14	4	210	-
205	240.00	M16	4	133	-
224	280.00	M20	4	144	ISO3019-2-224 B4
250	280.00	ø22	4	205	-
	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

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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-LL-HM-HR-HV-HC, 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 ø 250 - ø 28x60	
LMS250	●	●	●	●	●			IEC 112 ø 250 - ø 28x60	
LMS300		●	●	●	●	●		IEC 132 ø 300 - ø 38x80	
LMS350		●	●	●	●	●		IEC 160 ø 350 - ø 42x110	
LMS350		●	●	●	●	●	●	IEC 180 ø 350 - ø 48x110	
LMS400		●	●	●	●	●	●	IEC 200 ø 400 - ø 55x110	
LMS450		●	●	●	●	●	●	IEC 225 ø 450 - ø 60x140	
LMS550			●	●	●	●	●	IEC 250 ø 550 - ø 65x140	
LMS550			●	●	●	●	●	IEC 280 ø 550 - ø 75x140	
LMS660			●	●	●	●	●	IEC 315 ø 660 - ø 80x170	

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 ø 250 - ø 28x60
LMS250	●	●	●	●			●				IEC 112 ø 250 - ø 28x60
LMS300	●	●	●	●			●	●			IEC 132 ø 300 - ø 38x80
LMS350	●	●	●	●			●	●			IEC 160 ø 350 - ø 42x110
LMS350	●	●	●	●	●		●	●	●	●	IEC 180 ø 350 - ø 48x110
LMS400	●	●	●	●	●	●	●	●	●	●	IEC 200 ø 400 - ø 55x110
LMS450		●	●	●	●	●	●	●	●	●	IEC 225 ø 450 - ø 60x140
LMS550		●	●	●	●	●	●	●	●	●	IEC 250 ø 550 - ø 65x140
LMS550		●	●	●	●	●	●	●	●	●	IEC 280 ø 550 - ø 75x140
LMS660		●	●	●	●	●	●	●	●	●	IEC 315 ø 660 - ø 80x170

LMS/LDS

Designation & Ordering code

LMS

Bell-Housing series and size	
LMS250AFSA	LMS400AFSL
LMS250AFSB	LMS400AFSM
LMS300AFSC	LMS400AFSN
LMS300AFSD	LMS450AFSO
LMS300AFSE	LMS550AFSP
LMS350AFSF	LMS550AFSR
LMS350AFSG	LMS550AFSS
LMS350AFSH	LMS660AFST

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

Pump interface codes

070 See page 48

Options

DI	Drain hole + inspection hole
FG	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

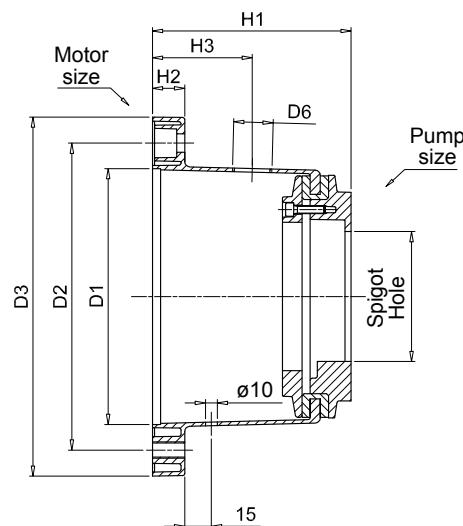
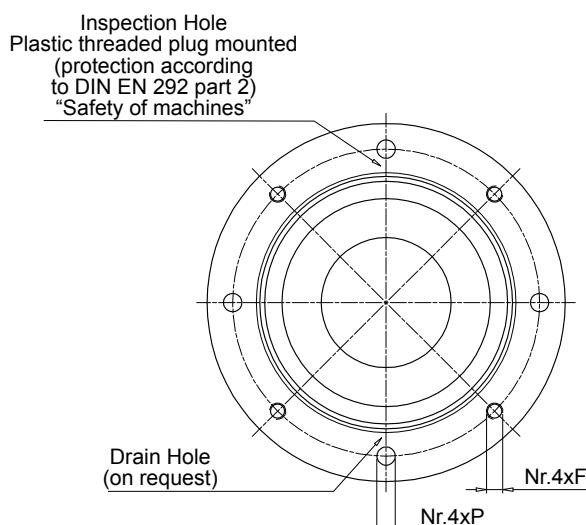
070 See page 48

Options

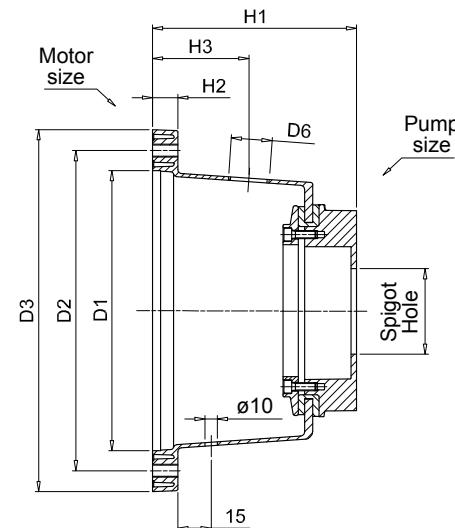
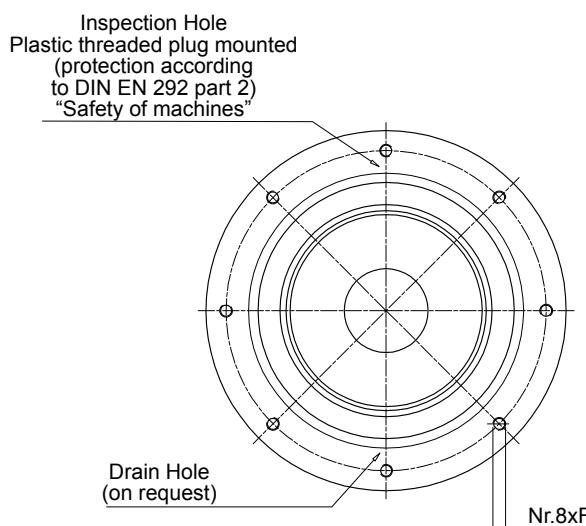
DI	Drain hole + inspection hole
FG	Holes rotated through 45° in relation to standard position
DP	Double set of hole
AN	Black anodized finish
SA	Clearance holes at motor interface
Pxx	Customer specification

Note:

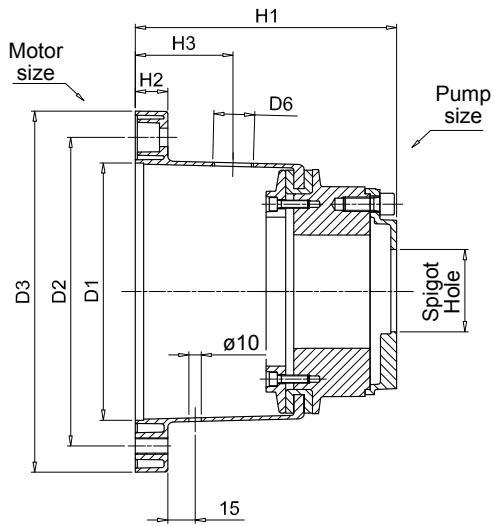
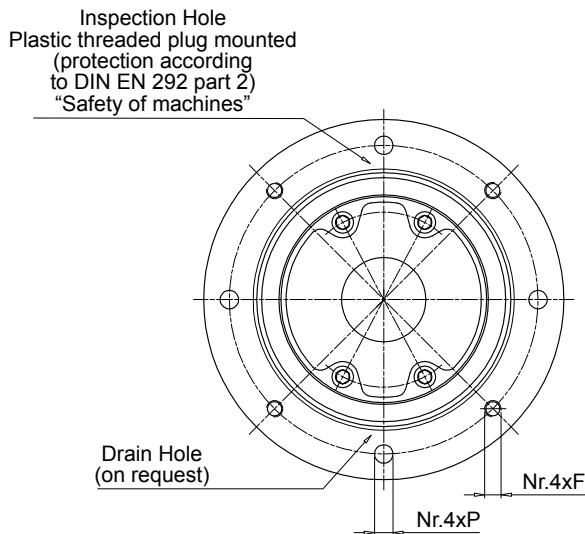
- Bell-housings with DI options are supplied complete with threaded closure plug.
- For customization features other than those indicated on this page, contact MP Filtri Technical and Sales Department.



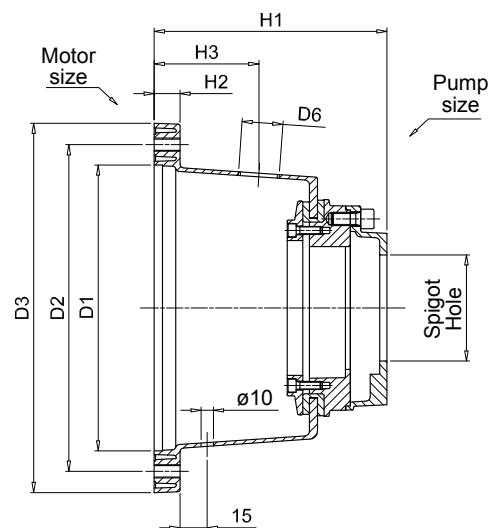
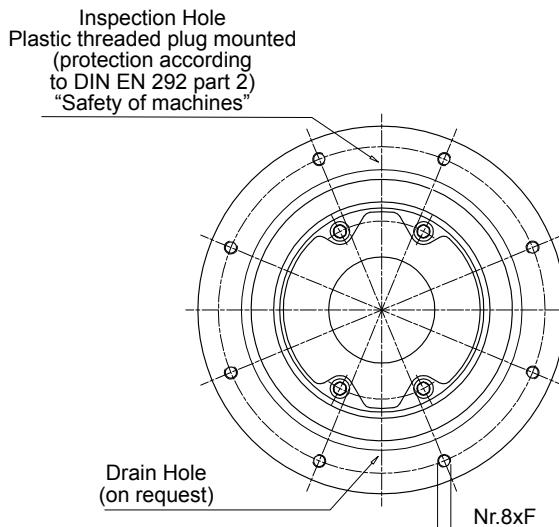
IEC - Electric motors Motor size	Shaft end [d x l]	Bell-housing code	D1	D2	Dimensions [mm]			F	P	On request H3	D6	Spigot hole Minimum [mm]	Weight [kg]
100 - 112	28x60	LMS250AFSA***	180	215	250	128	19	M12	14	75	3/4"	50	3.72
		LMS250AFS***	180	215	250	148	19	M12	14	75	3/4"	50	4.10
132	38x80	LMS300AFSC***	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	LMS350AFSE***	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 [d x l]	Bell-housing code	D1	D2	Dimensions [mm]			F	P	On request H3	D6	Spigot hole Minimum [mm]	Weight [kg]
225	60x140	LMS450AFSO***	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	LMS550AFSS***	450	500	550	290	31	M16	-	178	1 1/2"	80	19.2
		LMS660AFST***	550	600	660	305	42	M20	-	179	1 1/2"	80	20.2



IEC - Electric motors Motor size	Shaft end [d x l]	Bell-housing code	Dimensions [mm]								On request H3	Spigot hole Minimum [mm]	Weight [kg]	
			D1	D2	D3	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 [d x l]	Bell-housing code	Dimensions							On request H3	Spigot hole Minimum [mm]	Weight [kg]
			D1	D2	D3	H1	H2	F	P			
225	60x140	LDS450AF6A***	350	400	450	287	31	M16	-	175	1 1/2"	80
250	65x140											
280	75x140	LDS550AF6A***	450	500	550	300	31	M16	-	176	1 1/2"	80
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.