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

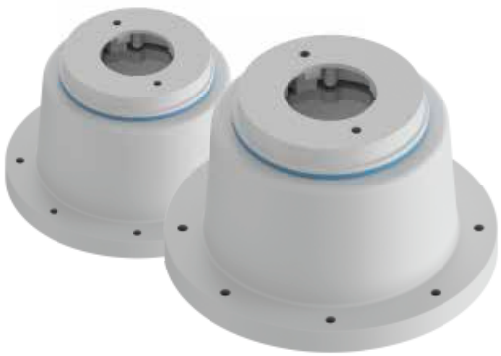
Materials
- Motor base bell-housing: Pressure die-cast aluminium alloy
- Pump flange: Pressure die-cast aluminium alloy
- Internal ring: Pressure die-cast aluminium alloy
- Damping ring: Vulcanized aluminium + NBR 75 Shore A

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

Temperature
From -30 °C to +80 °C

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



Range

Bell-Housing size	Flange ISO 3019-2 50 B2-B4	63 B2-B4	80 B2-B4	100 B2-B4	125 B2-B4	160 B2-B4	200 B2-B4	IEC Motors size
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 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)	IEC Motors size
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

Configuration example: LMS250AFSA | 070 | DI

Bell-Housing series and size

LMS250AFSA	**LMS400AFSL**
LMS250AFSB	**LMS400AFSM**
LMS300AFSC	**LMS400AFSN**
LMS300AFSD	**LMS450AFSO**
LMS300AFSE	**LMS550AFSP**
LMS350AFSF	**LMS550AFSR**
LMS350AFSG	**LMS550AFSS**
LMS350AFSH	**LMS660AFST**

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

Configuration example: LDS250AFRA | 070 | DI

Bell-Housing series and size

LDS250AFRA	**LDS450AF6A**
LDS250AFBB	**LDS550AF6A**
LDS250AFRE	**LDS660AF6A**
LDS300AFRB	
LDS300AFRC	
LDS300AF5G	
LDS350AF5A	
LDS400AF6A	

Pump interface codes

070	See page 48

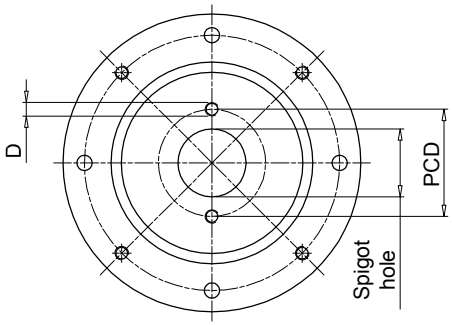
Options

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

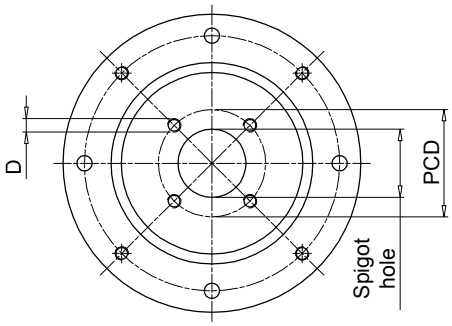
Note:

- 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.

Valid configuration for bell-housing up to ø400

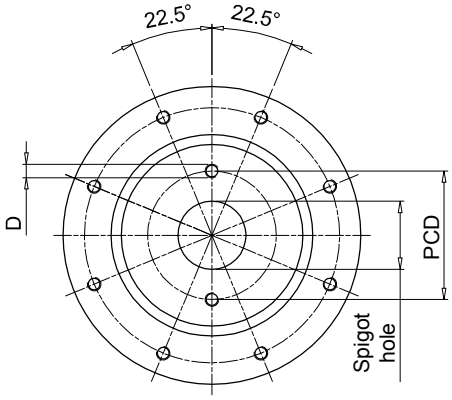


Bell-housing with nr. 2 holes at pump interface, aligned with through holes at motor interface.

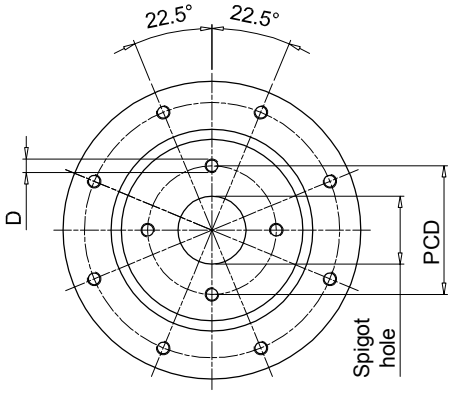


Bell-housing with nr. 4 holes at pump interface, aligned with thread holes at motor interface.

Valid configuration for bell-housing from ø450 to ø660



Bell-housing with nr. 2 holes at pump interface + 22.5° compared to through holes at motor interface.



Bell-housing with nr. 4 holes at pump interface + 22.5° compared to thread holes at motor interface.

Spigot hole [mm]	PCD	D	Nr. holes	Code	Type
40	72.00	M8	2	**191**	-
45.2	88.90	M8	4	**096**	-
	71.80	M8	4	**120**	-
50	80.00	M8	2	**052**	ISO3019-2-50-B2
	93.00	M10	2	**053**	-
	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**	-
60	74.00	M10	4	**098**	-
	98.50	M6	4	**147**	-
	75.00	M6	4	**227**	-
62.7	157.20	M12	4	**231**	-
63	100.00	M8	2	**042**	ISO3019-2-63-B2
	125.00	M6	4	**043**	-
	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**	-
80	100.00	M8	4	**024**	ISO3019-2-80-B4
	103.20	M8	2	**045**	ISO3019-2-80-B2
	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**	-
90	112.00	M8	2	**134**	-
	105.00	M8	4	**156**	-
	118.00	ø9	2	**163**	-
	112.00	ø9	2	**164**	-
92	140.00	M8	4	**088**	-
	145.00	M10	4	**089**	-

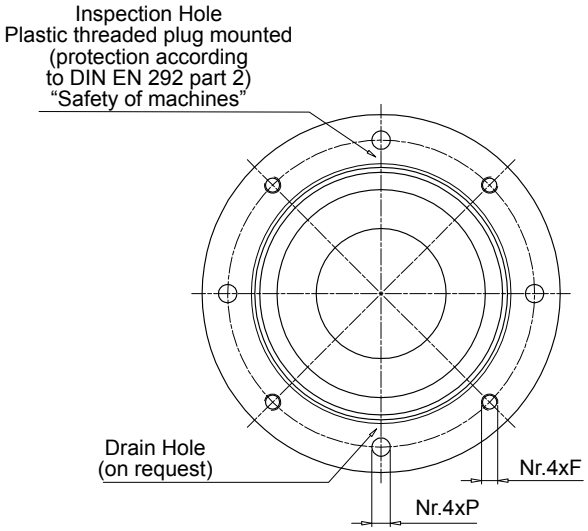
"-": configuration out of ISO & SAE Standard

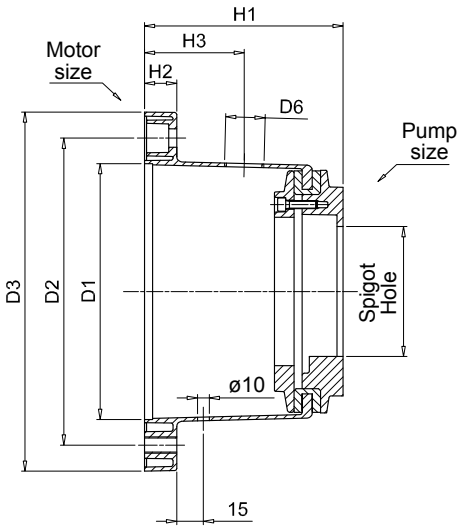
Spigot hole [mm]	PCD	D	Nr. holes	Code	Type
95	115.00	M8	4	137	-
	127.00	M10	4	131	-
98.4	125.00	ø11	4	128	-
100	125.00	M10	2	023	ISO3019-2-100-B4
	125.00	M10	4	025	ISO3019-2-100-B2
	125.00	ø11	4	031	-
	125.00	M5	4	032	-
	190.00	ø15	4	038	-
	125.00	ø13	4	041	-
	125.00	M12	2	071	-
	140.00	M12	2	072	-
	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	-
	135.00	M10	4	219	-
	145.00	M12	4	273	-
112	140.00	M12	2	074	-
	140.00	M10	2	138	-
	130.00	M10	4	264	-
115	180.00	M12	4	198	-
116	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	-
	170.00	ø18	4	237	-
127	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	-

"-": configuration out of ISO & SAE Standard

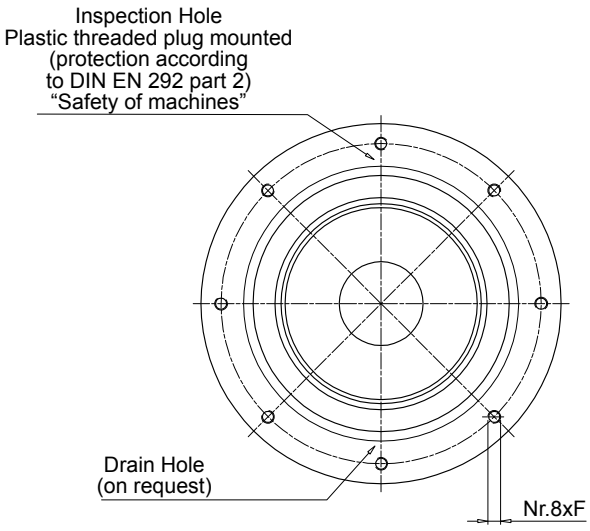
Spigot hole [mm]	PCD	D	Nr. holes	Code	Type
130	165.00	M10	4	253	-
135	160.00	M10	4	151	-
	175.40	M12	4	220	-
140	180.00	M14	4	077	ISO3019-2-140-B4
	180.00	M12	2	081	-
	165.00	M10	4	157	-
	200.00	M16	4	176	ISO3019-2-140-B2
	165.00	ø11	4	223	-
	180.00	M16	2	232	-
150	185.00	M16	4	069	-
152.4	228.60	M16	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
	190.50	M8	4	207	-
160	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	-
	230.00	M22	4	111	-
	185.00	M12	4	152	-
	224.00	M16	4	184	-
	230.00	ø22	4	228	-
162	188.00	M12	4	263	-
165.1	317.35	M20	4	143	SAE E 165 - 4
	317.35	M24	2	145	SAE E 165 - 2
	229.00	M20	4	201	-
	317.35	M18	4	204	-
175	200.00	M12	4	153	-
	230.00	M18	2	185	-
177.8	350.00	M24	4	146	SAE F 177 - 4
	216.00	M12	4	222	-
	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
	250.00	ø22	4	095	-
	280.00	M24	2	117	-
	230.50	M12	4	214	-
203.2	254.00	M14	4	210	-
205	240.00	M16	4	133	-
224	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
275	355.00	M16	4	233	-
	355.00	ø18	4	281	-

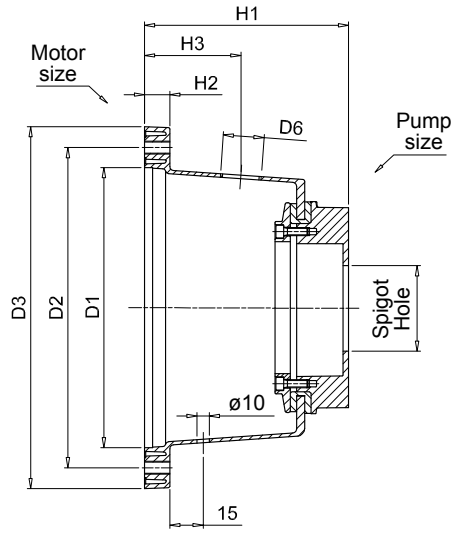
"-": configuration out of ISO & SAE Standard





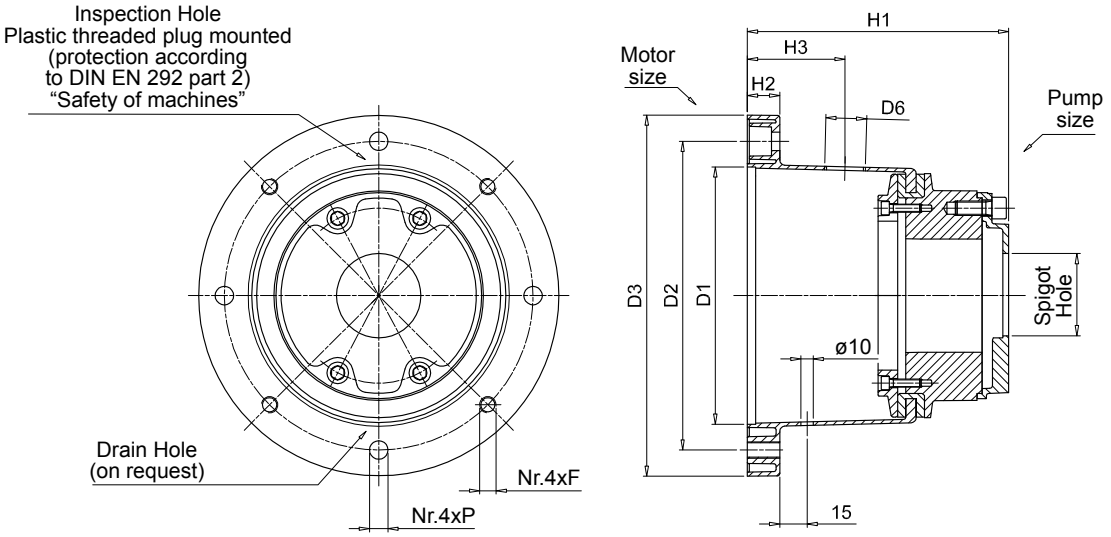
IEC - Electric motors		Bell-housing	Dimensions [mm]							On request		Spigot hole	Weight
Motor size	Shaft end [d x l]	code	D1	D2	D3	H1	H2	F	P	H3	D6	Minimum [mm]	[kg]
100 - 112	28x60	**LMS250AFSA*** **	180	215	250	128	19	M12	14	75	3/4"	50	3.72
		LMS250AFSB* **	180	215	250	148	19	M12	14	75	3/4"	50	4.10
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
		LMS300AFSE* **	230	265	300	194	23	M12	14	80	3/4"	80	6.51
160	42x110	**LMS350AFSF*** **	250	300	350	204	31	M16	18	95	1"	80	6.80
		LMS350AFSG* **	250	300	350	228	31	M16	18	95	1"	80	7.10
180	48x110	**LMS350AFSH*** **	250	300	350	204	31	M16	18	95	1"	80	8.51
200	55x110	**LMS400AFSL*** **	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



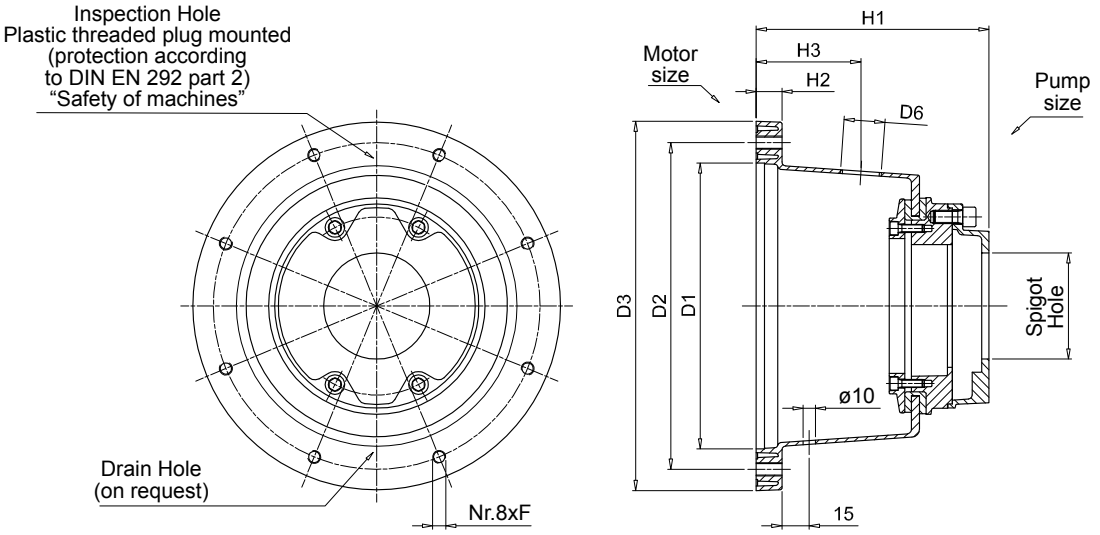


IEC - Electric motors		Bell-housing	Dimensions [mm]							On request		Spigot hole	Weight
Motor size	Shaft end [d x l]	code	D1	D2	D3	H1	H2	F	P	H3	D6	Minimum [mm]	[kg]
225	60x140	**LMS450AFSO*** **	350	400	450	255	31	M16	-	175	1 1/2"	80	12.1
250	65x140	**LMS550AFSP*** **	450	500	550	255	31	M16	-	176	1 1/2"	80	15.2
		LMS550AFSR* **	450	500	550	270	31	M16	-	177	1 1/2"	80	15.9
280	75x140	**LMS550AFSS*** **	450	500	550	290	31	M16	-	178	1 1/2"	80	19.2
315	80x170	**LMS660AFST*** **	550	600	660	305	42	M20	-	179	1 1/2"	80	20.2

Dimensions



IEC - Electric motors		Bell-housing	Dimensions [mm]							On request		Spigot hole	Weight
Motor size	Shaft end [d x l]	code	D1	D2	D3	H1	H2	F	P	H3	D6	Minimum [mm]	[kg]
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
160 180	42x110 48x110	**LDS350AF5A*** **	250	300	350	254	31	M16	18	95	1"	80	8.10
200	55x110	**LDS400AF6A*** **	300	350	400	288	31	M16	18	125	1 1/2"	80	10.00



IEC - Electric motors		Bell-housing	Dimensions							On request		Spigot hole	Weight
Motor size	Shaft end [d x l]	code	D1	D2	D3	H1	H2	F	P	H3	D6	Minimum [mm]	[kg]
225	60x140	**LDS450AF6A*** **	350	400	450	287	31	M16	-	175	1 1/2"	80	14.10
250 280	65x140 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.