

LS

totally enclosed three-phase asynchronous motors

General information



Totally enclosed three-phase asynchronous motors, LS series, according to IEC 60034, 60038, 60072 powers of 0.09 to 200 kW, frame sizes 56 to 315 mm.

- Single speed : 2, 4, 6 and 8 poles ; 230/400V or 400V Δ , 50Hz.
- Two speed : 2/4, 4/6, 4/8, 6/8, 6/12 poles; centrifugal or general use ; PAM, Dahlander or separate coils ; 400V Y or Δ , 50Hz.

The selection tables for motors in this catalogue allow for :

- Direct on line starting on the mains supplies 230V or 400V operating in :
 - delta connection (Δ) at 230V,
 - star connection (Y) at 400V.
- The star/delta start (Y/ Δ) on mains supply 400V with :
 - star connection (Y) during initial starting,
 - delta connection (Δ) on 400V duty.

Finish

Assembled with protected screws.
RAL 6000 finishing paint (green).
Protection of the flange and shaft end against

atmospheric corrosion.
Individual anti-shock packaging.
Multiposition conception in B5/V1-B14/V18 version.

Mains supply

- Standard according to the IEC 60038 :
 - 230/400 V +10% -10% at 50Hz.
 - Standard construction suitable for the following power supplies :
 - 220/380V +5% -5% at 50Hz,
 - 230/400V +10% -10% at 50Hz,
 - 240/415V +5% -5% at 50Hz,
 - 265/460V +5% -5% at 60Hz.
 - Voltagess for the powers equal or greater than 3kW :
 - 380V Δ +5% -5% at 50Hz,
 - 400V Δ +10% -10% at 50Hz,
 - 415V Δ +5% -5% at 50Hz,
 - 460V Δ +5% -5% at 60Hz.
- Construction suitable for Y/ Δ starting.



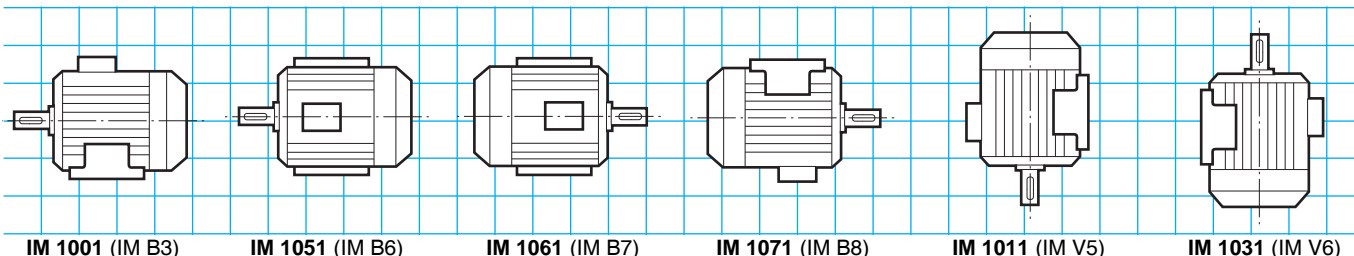
Description of the LS aluminium three-phase motors

Component	Materials	Remarks
Finned housing	Aluminium alloy	- with bolt-on or cast foot, or without foot - pressure die-cast for frame size \leq 180 - gravity cast for frame size \geq 200 <ul style="list-style-type: none"> • 4 or 6 mounting holes for the foot housings • lifting rings for frame size \geq 132 M, option in 132 S and 112 - optional earth terminal
Stator	Insulated low carbon magnetic steel laminations Electrolytic copper	- the low carbon content guarantees long term stability of the characteristics - assembled laminated pack - semi-enclosed slots - insulation system class F
Rotor	Insulated low carbon magnetic steel laminations Aluminium	- inclined slots - squirrel cage pressure die cast in aluminium (or alloy for special applications) - mounted on the shaft by heat shrinking - dynamically balanced rotor class N - 1/2 key
Shaft	Steel	- for frame size $<$ 132 : <ul style="list-style-type: none"> • shaft end fitted with screw and washer • closed keyway - for frame size \geq 132 : <ul style="list-style-type: none"> • tapped centre hole • open keyway
End shields	Aluminium alloy	- LS 56 - 63 - 71 front and rear - LS 80 - 90 rear
	Cast iron	- LS 80 - 90 front(optional for LS 80 and 90 rear) - LS 100 to 315 front and rear
Bearings and lubrication		- ball bearings - 2RS type lubricated for life from LS 56 to LS 71 included - ZZ types lubricated for life from LS 80 to LS 180 included - semi-protected or open types for frame size 200 - regreasable open types from 225 upwards - rear preloaded bearings
Labyrinth seals Lipseals	Technopolymer or steel Synthetic rubber	- lipseal or front jet deflector for all flange motors - lipseal , jet deflector or labyrinth seals for foot motor
Fan	Composite material or aluminium alloy	- 2 directions of rotation : straight blades
Fan cover	Composite material or steel sheet metal	- on request, fitted with a drip cover for operation in vertical position, shaft facing down
Terminal box	Composite material or aluminium alloy	- IP 55 - rotatable, mounted opposite position to the feet - fitted with a 6 steel stud standard terminal board (brass as an optional extra) - terminal box delivered fitted with cable glands (optionally without cable glands) - 1 earth terminal in all terminal boxes

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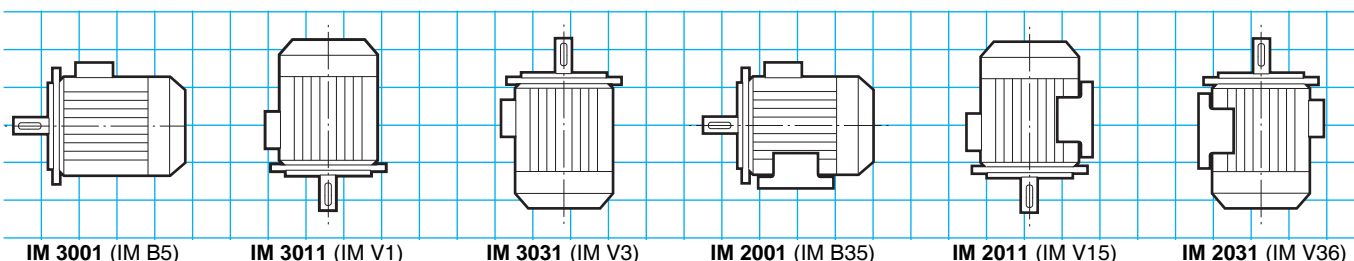
Mounting positions

Foot mounted motors



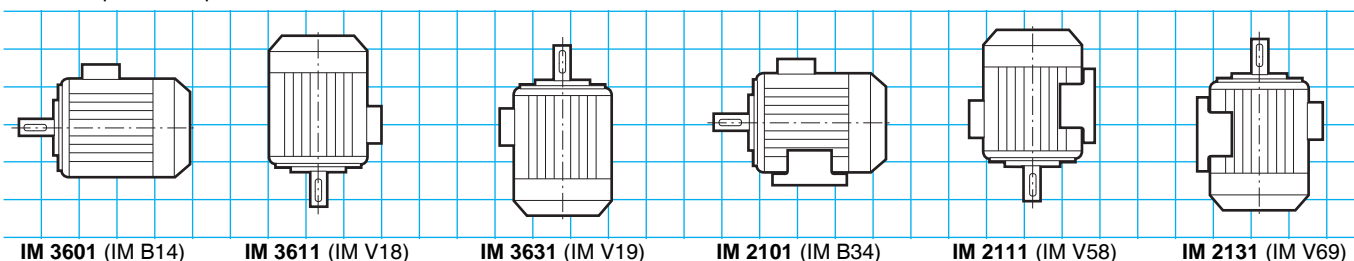
(FF) flange with plain holes mounted motors

- Possible position IM 3001 (IM B5) up to 225 frame size inclusive

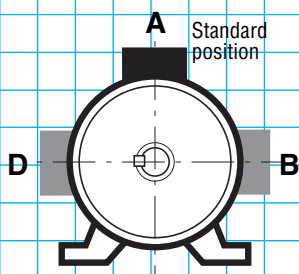


(FT) flange with tapped holes mounted motors

- Possible positions up to 132 frame size inclusive

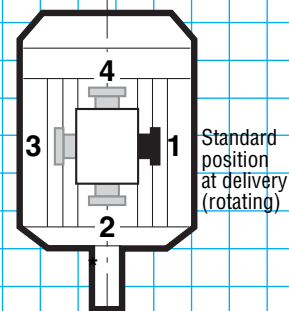


Terminal box positions in relation to the motor shaft end



A : standard

Cable gland positions in relation to the motor shaft end



1 : standard

* Position 2 not recommended and not feasible on standard motor fitted with plain hole flange (FF)

LS totally enclosed three-phase asynchronous motors

Adaptation possibilities

Leroy-Somer offers, for use with the LS totally enclosed three-phase asynchronous motors, many options which meet the needs of highly diverse applications. They are described below and in the chapters relating to gearboxes and to speed variation. For other variants or any specific adaptation, consult the technical specialists at Leroy-Somer.



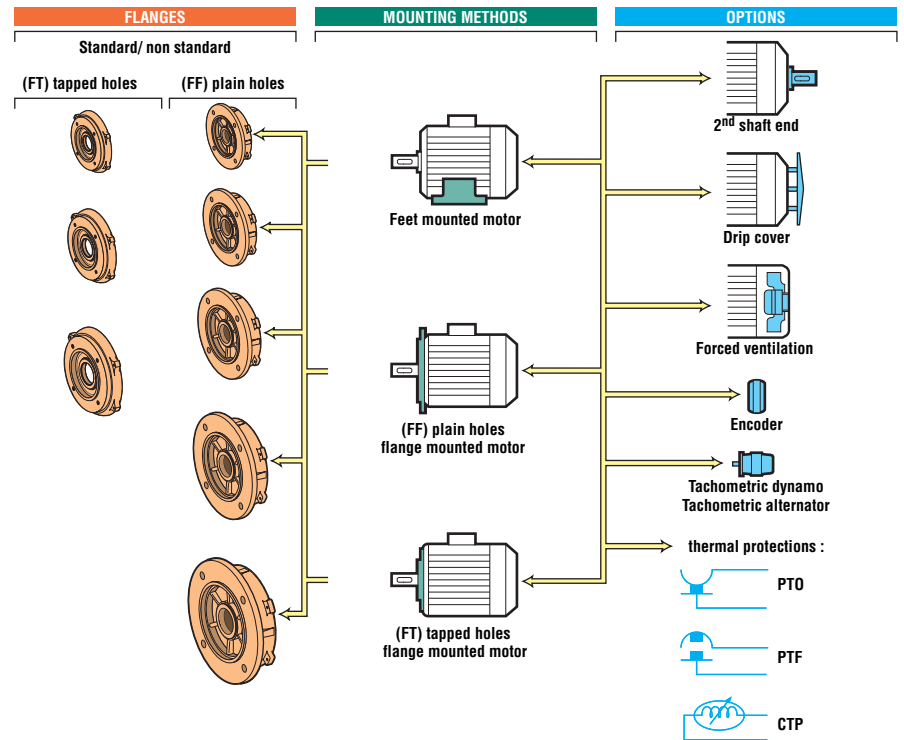
The LS three-motors may be associated to:

- gearboxes
- electronic variable speed drive¹

The options :

- drip cover
- anti-blocking cover
- forced ventilation
- thermal protection
- aluminium terminal box
- brass cable glands
- cable glands of different dimensions
- switch
- cables output
- stainless steel plate
- second shaft end
- non standard flanges
- reinforced sealing
- plug-in connector

1. Conforming to regulations for use as indicated by the standard IEC 34-17.



Designation / Codification

4P 1500 min ⁻¹	LS	180	MT	18.5 kW	IM 1001 (IM B3)	400 VΔ	50 Hz	IP 55
Speed polarity	Motor type	IEC 60072-1 frame size	Housing designation and builder index	Rated power	IEC 60034-7 mounting position	Power supply voltage	Power supply frequency	IEC 60034-5 protection

Codification example :

LS three-phase asynchronous motor, 1500 min⁻¹, 18.5 kW IM 1001 (IM B3), 400 V Δ

Designation	Code
4P LS 180 MT 18.5 kW IM 1001 (IM B3) 400 V Δ	EA4 18 302

Codification example :

Addition of a drip cover

Designation	Code
• drip cover	MATP 1024

The table above is an example.

It enables the creation of the designation for the required product.

This designation corresponds to a product code.

The product codes that are present in the selection grids can be used directly. They simplify the ordering process.

The codification table is incorporated in the price list with the designations list.

LS

totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - Δ T 80 K - 230 V Δ / 400 V Y - S1

2
poles
3000 min⁻¹

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	$I_N(400V)$ A	$\cos \varphi$ 100%	η 100%	I_0 / I_N	IM B3 kg
LS 56 M	0.09	2860	0.3	0.44	0.55	54	4.9	3.8
LS 56 M	0.12	2820	0.4	0.5	0.6	58	4.6	3.8
LS 63 M	0.18	2790	0.6	0.52	0.75	67	5	4.8
LS 63 M ¹	0.18	2790	0.6	0.52	0.75	67	5	4.8
LS 63 M	0.25	2800	0.8	0.71	0.75	68	5.4	6
LS 63 M ¹	0.25	2800	0.8	0.71	0.75	68	5.4	6
LS 71 L	0.37	2800	1.3	0.98	0.8	68	5.2	6.4
LS 71 L	0.55	2800	1.9	1.32	0.8	75	6	7.3
LS 71 L	0.75	2780	2.5	1.7	0.85	75	6	8.3
LS 80 L	0.75	2840	2.5	1.64	0.87	76	5.9	8.2
LS 80 L	1.1	2837	3.7	2.4	0.84	78	5.8	9.7
LS 80 L	1.5	2859	5	3.2	0.83	80.3	7	11.3
LS 90 S	1.5	2870	5	3.4	0.81	79.6	8	12
LS 90 L	1.8	2865	6	3.6	0.86	83.1	8	14
LS 90 L	2.2	2862	7.4	4.3	0.88	83.6	7.7	16
LS 100 L	3	2868	10	6.3	0.81	83.9	7.5	20
LS 100 L	3.7	2850	12.5	8	0.85	81	8.6	21
LS 112 M	4	2877	13.5	7.8	0.85	86	7.8	24.4
LS 112 MG	5.5	2916	18.1	10.5	0.88	86.6	9	33
LS 132 S	5.5	2916	18.1	10.5	0.88	86.6	9	34.4
LS 132 S	7.5	2905	24.5	14.7	0.85	86.5	8.7	39
LS 132 M	9	2910	29.6	17.3	0.85	88.1	8.6	49
LS 132 M	11	2944	36	20.7	0.86	89.4	7.5	54
LS 160 MP	11	2944	36	20.7	0.86	89.4	7.5	62
LS 160 MP	15	2935	48.8	28.4	0.85	90	8.1	72
LS 160 L	18.5	2934	60.2	33.7	0.87	91	8	88
LS 180 MT	22	2938	71.5	39.9	0.87	91.5	8.1	99
LS 200 LT	30	2946	97.2	52.1	0.9	92.4	8.6	154
LS 200 L	37	2950	120	64.6	0.89	92.9	7.4	180
LS 225 MT	45	2950	146	77.4	0.9	93.3	7.5	200
LS 250 MZ	55	2956	178	95.2	0.89	93.7	8.3	235
LS 280 SC	75	2968	241	127	0.9	94.4	8.5	330
LS 280 MC	90	2968	290	152	0.9	94.7	8.4	375
LS 315 SP	110	2976	353	190	0.88	94.8	7.8	645
LS 315 MP	132	2976	424	225	0.89	95	7.6	715
LS 315 MR	160	2976	513	270	0.9	95.1	7.6	820
LS 315 MR ²	200	2982	640	349	0.87	95	9.3	845

1. Flange or foot motor (or foot and flange) with shaft end different from the standard (D : 14 j6 - E : 30 mm).
2. Temperature rise class F.

LS totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - Δ T 80 K - 230 V Δ / 400 V Y - S1

2
poles
3000 min⁻¹

A

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 56 M	0.09	MA2 09 107	10	MA2 09 109	10	MA2 09 1C9	5	MA2 09 111	10	MA2 09 1D1	5
LS 56 M	0.12	MA2 12 107	10	MA2 12 109	5	MA2 12 1C9	5	MA2 12 111	5	MA2 21 1D1	5
LS 63 M	0.18	MA2 18 113	10	MA2 18 115	10	MA2 18 1C5	5	MA2 18 117	5	MA2 18 1D7	5
LS 63 M ¹	0.18	MA2 18 BA1	10	MA2 18 BA2	5	MA2 18 BA4	5	MA2 18 BA3	5	MA2 18 BA5	5
LS 63 M	0.25	MA2 25 125	10	MA2 25 127	10	MA2 25 1C7	5	MA2 25 129	10	MA2 25 1D9	5
LS 63 M ¹	0.25	MA2 25 BA1	10	MA2 25 BA2	5	MA2 25 BA4	5	MA2 25 BA3	10	MA2 25 BA5	5
LS 71 L	0.37	MA2 37 119	10	MA2 37 121	10	MA2 37 1C1	5	MA2 37 123	10	MA2 37 1D3	5
LS 71 L	0.55	MA2 55 119	10	MA2 55 121	10	MA2 55 1C1	5	MA2 55 123	10	MA2 55 1D3	5
LS 71 L	0.75	MA2 75 138	10	MA2 75 139	5	MA2 75 1C9	5	MA2 75 140	10	MA2 75 1D0	5
LS 80 L	0.75	MA2 75 133	25	MA2 75 135 ³	20	MA2 75 1C5	5	MA2 75 137 ⁴	10	MA2 75 1D7	5
LS 80 L	1.1	EA2 11 233	25	EA2 11 235 ³	20	EA2 11 2C5	5	EA2 11 237 ⁴	5	EA2 11 2D7	5
LS 80 L	1.5	EA0 00 001	5	EA0 00 002	5	EA0 00 003	5	EA0 00 004	5	EA0 00 005	5
LS 90 S	1.5	EA2 15 233	25	EA2 15 235 ³	20	EA2 15 2C5	5	EA2 15 237 ⁴	5	EA2 15 2D7	5
LS 90 L	1.8	EA2 18 213	10	EA2 18 215 ³	5	EA2 18 2C5	5	EA2 18 217 ⁴	5	EA2 18 2D7	5
LS 90 L	2.2	EA2 22 219	25	EA2 22 221 ³	20	EA2 22 2C1	5	EA2 22 223 ⁴	5	EA2 22 2D3	5
LS 100 L	3	EA2 30 201	25	EA2 30 203 ³	20	EA2 30 2C3	5	EA2 30 205 ⁴	5	EA2 30 2D5	5
LS 100 L	3.7	MA2 37 201	10	MA2 37 203 ³	5		-	MA2 37 205	5		-
LS 112 M	4	EA2 40 201	25	EA2 40 203 ³	10	EA2 40 2C3	5	EA2 40 205	5	EA2 40 2D5	5
LS 112 MG	5.5	EA2 55 201	25	EA2 55 203 ³	10	EA2 55 2C3	5	EA2 55 205	5	EA2 55 2D5	5
LS 132 S	5.5	EA2 55 207	10	EA2 55 209 ³	5	EA2 55 2C9	5	EA2 55 211	5	EA2 55 2D1	5
LS 132 S	7.5	EA2 75 201	10	EA2 75 203 ³	10	EA2 75 2C3	5	EA2 75 205	5	EA2 75 2D5	5
LS 132 M	9	EA2 90 201	10	EA2 90 203 ³	5	EA2 90 2C3	5	EA2 90 205	5	EA2 90 2D5	5
LS 132 M	11	EA2 11 340	5	EA2 11 342 ³	5	EA2 11 3C2	5		-	EA2 11 3D3	5
LS 160 MP	11	EA2 11 301	5	EA2 11 303 ³	2	EA2 11 3C3	5				
LS 160 MP	15	EA2 15 301	5	EA2 15 303 ³	2	EA2 15 3C3	5				
LS 160 L	18.5	EA2 18 301	3	EA2 18 303	1	EA2 18 3C3	3				
LS 180 MT	22	EA2 22 301	3	EA2 22 303	1	EA2 22 3C3	3				
LS 200 LT	30	EA2 30 301	1	EA2 30 303	1	EA2 30 3C3	1				
LS 200 L	37	EA2 37 301	3	EA2 37 303	2	EA2 37 3C3	3				
LS 225 MT	45	EA2 45 301	1	EA2 45 303	1	EA2 45 3C3	1				
LS 250 MZ	55	EA2 55 301	2			EA2 55 3C3	2				
LS 280 SC	75	EA2 75 301	1			EA2 75 3C3	1				
LS 280 MC	90		-				-				
LS 315 SP	110		-				-				
LS 315 MP	132		-				-				
LS 315 MR	160		-				-				
LS 315 MR ²	200		-				-				

1. Flange or foot motor (or foot and flange) with shaft end different from the standard (D : 14 j6 - E : 30 mm).

2. Temperature rise class F.

3. Motors IM B5 / IM V1.

4. Motors IM B14 / IM V18.

Selection example :

Speed :	3000 min ⁻¹ - 2 poles
Power :	2.2 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	230/400 V

Designation :

2P LS 90 L 2.2 kW IM 1001 (IM B3)
230/400 V

Code : EA2 22 219

LS

totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - $\Delta T 80 K$ - 230 V Δ / 400 V Y - S1

4
poles
1500 min⁻¹

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	$I_N(400V)$ A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 56 M	0.06	1360	0.42	0.3	0.6	55	3	4
LS 56 M	0.09	1400	0.6	0.39	0.6	55	3.2	4
LS 63 M	0.12	1380	0.8	0.44	0.7	56	3.2	4.8
LS 63 M ¹	0.12	1380	0.8	0.44	0.7	56	3.2	4.8
LS 63 M	0.18	1390	1.2	0.64	0.65	62	3.7	5
LS 63 M ¹	0.18	1390	1.2	0.64	0.65	62	3.7	5
LS 71 M	0.18	1425	1.2	0.8	0.65	69	4.6	6.4
LS 71 M	0.25	1425	1.7	0.8	0.65	69	4.6	6.4
LS 71 M	0.37	1420	2.5	1.06	0.7	72	4.9	7.3
LS 71 L	0.55	1400	3.8	1.62	0.7	70	4.8	8.3
LS 80 L	0.55	1410	3.8	1.42	0.76	73.4	4.5	8.2
LS 80 L	0.75	1400	5.1	2.01	0.77	70	4.5	9.3
LS 80 L	0.9	1425	6	2.44	0.73	73	5.8	10.9
LS 90 S	1.1	1429	7.4	2.5	0.84	76.8	4.8	11.5
LS 90 L	1.5	1428	10	3.4	0.82	78.5	5.3	13.5
LS 90 L	1.8	1438	12	4	0.82	80.1	6	15.2
LS 100 L	2.2	1436	14.7	4.8	0.81	81	5.9	20
LS 100 L	3	1437	20.1	6.5	0.81	82.6	6	22.5
LS 112 M	4	1438	26.8	8.3	0.83	84.2	7.1	24.9
LS 132 S	5.5	1447	36.7	11.1	0.83	85.7	6.3	36.5
LS 132 M	7.5	1451	49.4	15.2	0.82	87	7	54.7
LS 132 M	9	1455	59.3	18.1	0.82	87.7	6.9	59.9
LS 160 MP	11	1454	72.2	21	0.86	88.4	7.7	70
LS 160 LR	15	1453	98	28.8	0.84	89.4	7.5	86
LS 180 MT	18.5	1456	121	35.2	0.84	90.3	7.6	100
LS 180 LR	22	1456	144	41.7	0.84	90.7	7.9	112
LS 200 LT	30	1460	196	56.3	0.84	91.5	6.6	165
LS 225 ST	37	1468	241	68.7	0.84	92.5	6.3	205
LS 225 MR	45	1468	293	83.3	0.84	92.8	6.3	235
LS 250 ME	55	1478	355	101	0.84	93.6	7	320
LS 280 SC	75	1478	485	137	0.84	94.2	7.2	380
LS 280 MD	90	1478	581	164	0.84	94.4	7.6	450
LS 315 SP	110	1484	708	197	0.85	94.8	7	670
LS 315 MP	132	1484	849	236	0.85	95	7.6	750
LS 315 MR	160	1484	1030	286	0.85	95	7.7	845
LS 315 MR ²	200	1486	1285	359	0.84	95.8	8.1	860

1. Flange or foot motor (or foot and flange) with shaft end different from the standard (D : 14 j6 - E : 30 mm).
2. Temperature rise class F.

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Selection

IP 55 - 50 Hz - Class F - Δ T 80 K - 230 V Δ / 400 V Y - S1

4
poles
1500 min⁻¹

A

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 56 M	0.06		-		-		-		-		-
LS 56 M	0.09	MA4 09 113	10	MA4 09 115	10	MA4 09 1A5	5	MA4 09 117	10	MA4 09 1B7	5
LS 63 M	0.12	MA4 12 119	10	MA4 12 121	10	MA4 12 1B1	5	MA4 12 123	5	MA4 12 1B3	5
LS 63 M ¹	0.12	MA4 12 BA1	10	MA4 12 BA2	5	MA4 12 BA4	5	MA4 12 BA3	5	MA4 12 BA5	5
LS 63 M	0.18	MA4 18 107	15	MA4 18 109	10	MA4 18 1A9	5	MA4 18 111	10	MA4 18 1B1	5
LS 63 M ¹	0.18	MA4 18 BA1	15	MA4 18 BA2	5	MA4 18 BA4	5	MA4 18 BA3	5	MA4 18 BA5	5
LS 71 M	0.18										
LS 71 M	0.25	MA4 25 119	15	MA4 25 121	10		-	MA4 25 123	10		-
LS 71 M	0.37	MA4 37 119	20	MA4 37 121	10	MA4 37 1A1	5	MA4 37 123	10	MA4 37 1B3	5
LS 71 L	0.55	MA4 55 132	10	MA4 55 133	10		-	MA4 55 134	10		-
LS 80 L	0.55	MA4 55 113	25	MA4 55 115 ³	25	MA4 55 1A5	5	MA4 55 117 ⁴	10	MA4 55 1B7	5
LS 80 L	0.75	MA4 75 119	25	MA4 75 121 ³	25	MA4 75 1A1	5	MA4 75 123 ⁴	10	MA4 75 1B3	5
LS 80 L	0.9	MA4 90 107	25	MA4 90 109 ³	10	MA4 90 1A9	2	MA4 90 111 ⁴	10	MA4 90 1B1	5
LS 90 S	1.1	EA4 11 219	25	EA4 11 221 ³	25	EA4 11 2A1	5	EA4 11 223 ⁴	10	EA4 11 2B3	5
LS 90 L	1.5	EA4 15 207	25	EA4 15 209 ³	25	EA4 15 2A9	5	EA4 15 211 ⁴	10	EA4 15 2B1	5
LS 90 L	1.8	EA4 18 207	10	EA4 18 209 ³	10	EA4 18 2A9	5	EA4 18 211 ⁴	10	EA4 18 2B1	5
LS 100 L	2.2	EA4 22 207	25	EA4 22 209 ³	25	EA4 22 2A9	5	EA4 22 211 ⁴	10	EA4 22 0B1	5
LS 100 L	3	EA4 30 207	25	EA4 30 209 ³	10	EA4 30 2A9	5	EA4 30 211 ⁴	5	EA4 30 2B1	5
LS 112 M	4	EA4 40 201	10	EA4 40 203 ³	10	EA4 40 2A3	5	EA4 40 205 ⁴	5	EA4 40 2B5	5
LS 132 S	5.5	EA4 55 207	10	EA4 55 209 ³	10	EA4 55 2A9	5	EA4 55 211 ⁴	2	EA4 55 2B1	5
LS 132 M	7.5	EA4 75 207	10	EA4 75 209 ³	10	EA4 75 2A9	5	EA4 75 211 ⁴	2	EA4 75 2B1	5
LS 132 M	9	EA4 90 201	10	EA4 90 203 ³	10	EA4 90 2A3	5	EA4 90 205 ⁴	2	EA4 90 2B6	5
LS 160 MP	11	EA4 11 301	5	EA4 11 303 ³	2	EA4 11 3A3	2				
LS 160 LR	15	EA4 15 301	5	EA4 15 303 ³	2	EA4 15 3A3	2				
LS 180 MT	18.5	EA4 18 301	3	EA4 18 303 ³	2	EA4 18 3A3	3				
LS 180 LR	22	EA4 22 301	3	EA4 22 303 ³	2	EA4 22 3A3	3				
LS 200 LT	30	EA4 30 301	3	EA4 30 303	2	EA4 30 3A3	3				
LS 225 ST	37	EA4 37 301	3	EA4 37 303	1	EA4 37 3A3	3				
LS 225 MR	45	EA4 45 301	3	EA4 45 303	1	EA4 45 3A3	3				
LS 250 ME	55	EA4 55 301	3			EA4 55 3A3	3				
LS 280 SC	75	EA4 75 301	1			EA4 75 3A3	1				
LS 280 MD	90		-				-				-
LS 315 SP	110		-				-				-
LS 315 MP	132		-				-				-
LS 315 MR	160		-				-				-
LS 315 MR ²	200		-				-				-

1. Flange or foot motor (or foot and flange) with shaft end different from the standard (D : 14 j6 - E : 30 mm).
2. Temperature rise class F.
3. Motors IM B5 / IM V1.
4. Motors IM B14 / IM V18.

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	55 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	230/400 V

Designation :

4P LS 250 ME 55 kW IM 1001 (IM B3)
230/400 V

Code : EA4 55 301

LS

totally enclosed three-phase asynchronous motors

Selection

A

4
poles
1500 min⁻¹

PTO thermal protection -n/c
IP 55 - 50 Hz - Classe F - ΔT 80 K - 230 V Δ / 400 V Y - S1

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 56 M	0.09	1400	0.6	0.39	0.6	55	3.2	4
LS 63 M	0.12	1380	0.8	0.44	0.7	56	3.2	4.8
LS 63 M'	0.12	1375	0.8	0.44	0.77	56	3	4.8
LS 63 M	0.18	1390	1.2	0.64	0.65	62	3.7	5
LS 63 M'	0.18	1410	1.2	0.62	0.75	63	3.7	5
LS 63 M	0.25	1390	1.7	0.85	0.65	65	4	5.5
LS 63 M'	0.25	1390	1.7	0.85	0.65	65	4	5.5
LS 71 M	0.25	1425	1.7	0.8	0.65	69	4.6	6.4
LS 71 M	0.37	1420	2.5	1.06	0.7	72	4.9	7.3
LS 71 L	0.55	1400	3.8	1.62	0.7	70	4.8	8.3
LS 80 L	0.55	1410	3.8	1.42	0.76	73.4	4.5	8.2
LS 80 L	0.75	1400	5.1	2.01	0.77	70	4.5	9.3
LS 80 L	0.9	1425	6	2.44	0.73	73	5.8	10.9
LS 90 S	1.1	1429	7.4	2.5	0.84	76.8	4.8	11.5
LS 90 L	1.5	1428	10	3.4	0.82	78.5	5.3	13.5
LS 90 L	1.8	1438	12	4	0.82	80.1	6	15.2
LS 100 L	2.2	1436	14.7	4.8	0.81	81	5.9	20
LS 100 L	3	1437	20.1	6.5	0.81	82.6	6	22.5
LS 112 M	4	1438	26.8	8.3	0.83	84.2	7.1	24.9
LS 132 S	5.5	1447	36.7	11.1	0.83	85.7	6.3	36.5
LS 132 M	7.5	1451	49.4	15.2	0.82	87	7	54.7
LS 132 M	9	1455	59.3	18.1	0.82	87.7	6.9	59.9
LS 160 MP	11	1454	72.2	21	0.86	88.4	7.7	70
LS 160 LR	15	1453	98	28.8	0.84	89.4	7.5	86
LS 180 MT	18.5	1456	121	35.2	0.84	90.3	7.6	100
LS 180 LR	22	1456	144	41.7	0.84	90.7	7.9	112
LS 200 LT	30	1460	196	56.3	0.84	91.5	6.6	165
LS 225 ST	37	1468	241	68.7	0.84	92.5	6.3	205
LS 225 MR	45	1468	293	83.3	0.84	92.8	6.3	235
LS 250 ME	55	1478	355	101	0.84	93.6	7	320
LS 280 SC	75	1478	485	137	0.84	94.2	7.2	380
LS 280 MD	90	1478	581	164	0.84	94.4	7.6	450
LS 315 SP	110	1484	708	197	0.85	94.8	7	670
LS 315 MP	132	1484	849	236	0.85	95	7.6	750
LS 315 MR	160	1484	1030	286	0.85	95	7.7	845

1. Flange or foot motor (or foot and flange) with shaft end different from the standard (D : 14 j6 - E : 30 mm).

LS totally enclosed three-phase asynchronous motors

Selection

4
poles
1500 min⁻¹

PTO thermal protection -n/c
IP 55 - 50 Hz - Class F - ΔT 80 K - 230 V Δ / 400 V Y - S1

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3) Code	Qty
LS 56 M	0.09	MA0 00 142	10
LS 63 M	0.12	MA0 00 143	10
LS 63 M ¹	0.12	MA0 00 144	5
LS 63 M	0.18	MA0 00 145	10
LS 63 M ¹	0.18	MA0 00 146	5
LS 63 M	0.25	MA0 00 208	5
LS 63 M ¹	0.25	MA0 00 147	5
LS 71 M	0.25	MA0 00 148	10
LS 71 M	0.37	MA0 00 149	10
LS 71 L	0.55	MA0 00 150	10
LS 80 L	0.55	MA0 00 151	15
LS 80 L	0.75	MA0 00 152	15
LS 80 L	0.9	MA0 00 153	15
LS 90 S	1.1	EA0 00 154	15
LS 90 L	1.5	EA0 00 155	15
LS 90 L	1.8	EA0 00 156	10
LS 100 L	2.2	EA0 00 157	15
LS 100 L	3	EA0 00 158	15
LS 112 M	4	EA0 00 159	10
LS 132 S	5.5	EA0 00 160	10
LS 132 M	7.5	EA0 00 161	10
LS 132 M	9	EA0 00 162	10
LS 160 MP	11	EA0 00 163	2
LS 160 LR	15	EA0 00 164	2
LS 180 MT	18.5	EA0 00 165	2
LS 180 LR	22	EA0 00 166	2
LS 200 LT	30	EA0 00 167	2
LS 225 ST	37	EA0 00 168	1
LS 225 MR	45	EA0 00 169	1
LS 250 ME	55	EA0 00 170	1
LS 280 SC	75	EA0 00 171	1
LS 280 MD	90		-
LS 315 SP	110		-
LS 315 MP	132		-
LS 315 MR	160		-

1. Flange or foot motor (or foot and flange) with shaft end different from the standard (D : 14 j6 - E : 30 mm).

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	4 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	230/400 V
Thermal protection :	PTO

Designation :

**4P LS 112 M 4 kW IM 1001 (IM B3)
PTO 230/400 V**

Code : EA0 00 159

LS

totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - Δ T 80 K - 230 V Δ / 400 V Y - S1

6
poles
1000 min⁻¹

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 63 M	0.09	860	0.9	0.46	0.8	35	2.1	5.5
LS 63 M'	0.09	905	0.9	0.45	0.66	48	2.6	5.5
LS 71 M	0.12	920	1.3	0.64	0.55	49	2.9	6.5
LS 71 M	0.18	895	1.8	0.81	0.62	52	2.7	7.6
LS 71 L	0.25	840	2.6	1	0.7	50	2.5	7.9
LS 80 L	0.25	955	2.5	0.85	0.67	63.1	3.9	8.4
LS 80 L	0.37	950	3.7	1.1	0.72	66	4.3	9.7
LS 80 L	0.55	950	5.5	1.8	0.64	68	4.9	11
LS 90 S	0.75	930	7.7	2.1	0.77	68.5	4.2	13.5
LS 90 L	1.1	915	11.5	3	0.76	70	4.7	15.2
LS 100 L	1.5	905	15.8	4.2	0.74	69	4.5	20
LS 100 L	1.8	925	18	4.4	0.76	75	5.4	21
LS 112 M	2.2	905	23.2	5.8	0.76	72	5.6	24.2
LS 132 S	3	957	30.3	6.8	0.78	81.1	6	38.3
LS 132 M	4	961	39.6	9.3	0.75	83.6	5.9	53.3
LS 132 M	5.5	960	54.2	13.3	0.71	84.1	5.5	59.4
LS 160 M	7.5	967	74.1	16.1	0.79	85.2	4.7	81
LS 160 L	11	967	108	23.3	0.79	86.3	4.6	105
LS 180 LR	15	968	147.9	31.9	0.78	87.1	5.4	110
LS 200 LT	18.5	970	182	37	0.81	89	6.4	160
LS 200 L	22	972	216	43.6	0.81	89.9	6	190
LS 225 MR	30	968	296	59.5	0.81	89.9	6	235
LS 250 ME	37	978	361	71.1	0.81	92.7	6.2	305
LS 280 SC	45	978	439	86.5	0.81	92.7	6.2	340
LS 280 MC	55	978	537	106	0.81	92.6	6	385
LS 315 SP	75	980	731	140	0.83	93.3	7.2	690
LS 315 MP	90	980	877	164	0.85	93.1	7.2	760
LS 315 MR	110	980	1072	200	0.85	93.5	7.2	850
LS 315 MR	132	986	1278	242	0.83	94.8	6.6	830

1. Flange or foot motor (or foot and flange) with shaft end different from the standard (D : 14 j6 - E : 30 mm).

LS totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - ΔT 80 K - 230 V Δ / 400 V Y - S1

6
poles
1000 min⁻¹

A

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 63 M	0.09	MA6 09 113	5		-		-	MA6 09 117	5		-
LS 63 M'	0.09	MA0 00 176	5		-		-	MA0 00 182	5		-
LS 71 M	0.12	MA6 12 113	5	MA6 12 115	5		-	MA6 12 117	5		-
LS 71 M	0.18	MA6 18 107	5	MA6 18 109	5		-	MA6 18 111	5		-
LS 71 L	0.25	MA6 25 119	5	MA6 25 121	5		-	MA6 25 123	5		-
LS 80 L	0.25		-		-		-		-		-
LS 80 L	0.37	MA6 37 119	10	MA6 37 121	5	MA0 00 050	5	MA6 37 123	5	MA6 37 124	5
LS 80 L	0.55	MA6 55 113	10	MA6 55 115	5	MA0 00 053	5	MA6 55 117	5	MA6 55 114	5
LS 90 S	0.75	MA6 75 101	10	MA6 75 103 ²	5	MA6 75 108	5	MA6 75 105	5	MA0 00 103	5
LS 90 L	1.1	MA6 11 201	10	MA6 11 203 ²	5	MA6 11 208	5	MA6 11 205	5	MA0 00 132	5
LS 100 L	1.5	MA6 15 201	10	MA6 15 203 ²	5	MA0 00 057	5	MA6 15 205	5	MA0 00 133	5
LS 100 L	1.8	MA6 18 201	10	MA6 18 203	5	MA0 00 058	5	MA6 18 205	5	MA0 00 134	5
LS 112 M	2.2	MA6 22 201	5	MA6 22 203 ²	5	MA0 00 099	5	MA6 22 205	5	MA0 00 138	5
LS 132 S	3	MA6 30 201	5	MA6 30 203 ²	5	MA0 00 101	5	MA6 30 205	5	MA0 00 139	5
LS 132 M	4	MA6 40 201	5	MA6 40 203 ²	5	MA0 00 102	5	MA6 40 205	5	MA0 00 140	5
LS 132 M	5.5	MA6 55 201	5	MA6 55 203 ²	2	MA6 55 208	5	MA6 55 205	5	MA0 00 141	5
LS 160 M	7.5	MA6 75 201	3		-	MA0 00 186	3				
LS 160 L	11	MA6 11 301	3		-	MA0 00 187	3				
LS 180 LR	15	MA6 15 301	2		-	MA0 00 188	2				
LS 200 LT	18.5		-		-		-				
LS 200 L	22		-		-		-				
LS 225 MR	30		-		-		-				
LS 250 MP	37		-		-		-				
LS 280 SP	45		-		-		-				
LS 280 MP	55		-		-		-				
LS 315 SP	75		-		-		-				
LS 315 MP	90		-		-		-				
LS 315 MR	110		-		-		-				
LS 315 MR	132		-		-		-				

1. Flange or foot motor (or foot and flange) with shaft end different from the standard (D : 14 j6 - E : 30 mm).
2. Motors IM B5 / IM V1.

Selection example :

Speed :	1000 min ⁻¹ - 6 poles
Power :	7.5 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	230/400 V

Designation :

6P LS 160 M 7.5 kW IM 1001 (IM B3)
230/400 V

Code : MA6 75 201

LS

totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - Δ T 80 K - 230 V Δ / 400 V Y - S1

8
poles
750 min⁻¹

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 71 L	0.09	690	1.25	0.5	0.55	44	2.8	8
LS 71 M	0.12	650	1.7	0.72	0.55	44	2.1	8
LS 80 L	0.18	705	2.4	0.79	0.63	52	2.9	9.7
LS 80 L	0.25	700	3.4	0.98	0.68	54	2.8	11.3
LS 90 S	0.37	685	5.2	1.2	0.72	62	3.8	13.5
LS 90 L	0.55	670	7.8	1.7	0.72	63.5	3.5	15.2
LS 100 L	0.75	670	10.7	2.4	0.71	63.5	3.5	18
LS 100 L	1.1	670	15.7	3.7	0.68	63	3.7	21.8
LS 112 MG	1.5	710	20.2	4.7	0.64	72	3.8	24
LS 132 SM	2.2	713	30.2	6.1	0.68	77.1	4	45.6
LS 132 M	3	712	40.7	8	0.65	79.8	4.3	53.9
LS 160 M	4	718	53.2	11	0.63	83.3	3.9	84
LS 160 M	5.5	716	73.4	15.1	0.63	83.3	3.9	89
LS 160 L	7.5	714	100	20.6	0.63	83.4	3.9	101
LS 180 L	11	720	146	25.6	0.72	86	3.8	140
LS 200 L	15	725	198	32.9	0.75	87.7	4.4	185
LS 225 ST	18.5	725	244	42.4	0.72	87.5	4.2	210
LS 225 MR	22	725	289	51.9	0.7	87.4	4.4	240
LS 250 ME	30	730	392	60.3	0.79	90.9	5.8	330
LS 280 SC	37	730	484	74.3	0.79	91	5.6	370
LS 280 MD	45	728	590	91.4	0.78	91.1	5.4	430
LS 315 SP	55	738	712	105	0.81	93.2	5.4	660
LS 315 MR	75	738	970	143	0.81	93.6	5.4	815

LS totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - Δ T 80 K - 230 V Δ / 400 V Y - S1

8
poles
750 min⁻¹

A

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)	
		Code	Qty	Code	Qty
LS 71 L	0.09		-		-
LS 71 M	0.12	MA0 00 189	5	MA0 00 190	5
LS 80 L	0.18	MA8 18 101	5	MA8 18 102 ¹	2
LS 80 L	0.25	MA8 25 101	5	MA8 25 102 ¹	2
LS 90 S	0.37	MA8 37 101	5	MA8 37 102 ¹	2
LS 90 L	0.55	MA8 55 101	5	MA8 55 102 ¹	2
LS 100 L	0.75	MA8 75 101	5	MA8 75 102 ¹	2
LS 100 L	1.1	MA8 11 201	5	MA8 11 202 ¹	2
LS 112 MG	1.5	MA8 15 201	5	MA8 15 202 ¹	2
LS 132 SM	2.2	MA8 22 201	5	MA8 22 203	5
LS 132 M	3	MA8 30 201	5	MA8 30 203	5
LS 160 M	4		-		-
LS 160 M	5.5		-		-
LS 160 L	7.5		-		-
LS 180 L	11		-		-
LS 200 L	15		-		-
LS 225 ST	18.5		-		-
LS 225 MR	22		-		-
LS 250 ME	30		-		-
LS 280 SC	37		-		-
LS 280 MD	45		-		-
LS 315 SP	55		-		-
LS 315 MP	75		-		-

1. Motors IM B5 / IM V1.

Selection example :

Speed :	750 min ⁻¹ - 8 poles
Power :	0.75 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	230/400 V

Designation :

**8P LS 100 L 0.75 kW IM 1001 (IM B3)
230/400 V**

Code : MA8 75 101

LS

totally enclosed three-phase asynchronous motors

Selection

A

2
poles
3000 min⁻¹

IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 100 L	3	2868	10	6.3	0.81	83.9	7.5	20
LS 112 M	4	2877	13.5	7.8	0.85	86	7.8	24.4
LS 112 MG	5.5	2916	18.1	10.5	0.88	86.6	9	33
LS 132 S	5.5	2916	18.1	10.5	0.88	86.6	9	34.4
LS 132 S	7.5	2905	24.5	14.7	0.85	86.5	8.7	39
LS 132 M	9	2910	29.6	17.3	0.85	88.1	8.6	49
LS 132 M	11	2944	36	20.7	0.86	89.4	7.5	54
LS 160 MP	11	2944	36	20.7	0.86	89.4	7.5	62
LS 160 MP	15	2935	48.8	28.4	0.85	90	8.1	72
LS 160 L	18.5	2934	60.2	33.7	0.87	91	8	88
LS 180 MT	22	2938	71.5	39.9	0.87	91.5	8.1	99
LS 200 LT	30	2946	97.2	52.1	0.9	92.4	8.6	154
LS 200 L	37	2950	120	64.6	0.89	92.9	7.4	180
LS 225 MT	45	2950	146	77.4	0.9	93.3	7.5	200
LS 250 MZ	55	2956	178	95.2	0.89	93.7	8.3	235
LS 280 SC	75	2968	241	127	0.9	94.4	8.5	330
LS 280 MC	90	2968	290	152	0.9	94.7	8.4	375
LS 315 SP	110	2976	353	190	0.88	94.8	7.8	645
LS 315 MP	132	2976	424	225	0.89	95	7.6	715
LS 315 MR	160	2976	513	270	0.9	95.1	7.6	820
LS 315 MR ¹	200	2982	640	349	0.87	95	9.3	845

1. Temperature rise class F.

LS totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

2
poles
3000 min⁻¹

A

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 100 L	3	EA2 30 202	10	EA2 30 204 ²	2	EA2 30 2E4	5	EA2 30 206	5	EA2 30 2F6	5
LS 112 M	4	EA2 40 202	10	EA2 40 204 ²	2	EA2 40 2A4	2	EA2 40 206	5	EA2 40 2A6	5
LS 112 MG	5.5	EA2 55 202	10	EA2 55 204 ²	2	EA2 55 2E4	2	EA2 55 206	5	EA2 55 2F6	5
LS 132 S	5.5	EA2 55 208	10	EA2 55 210 ²	2	EA2 55 2B0	2	EA2 55 212	2	EA2 55 3B2	2
LS 132 S	7.5	EA2 75 202	10	EA2 75 204 ²	5	EA2 75 2E4	2	EA2 75 206	2	EA2 75 2F6	2
LS 132 M	9	EA2 90 202	2	EA2 90 204 ²	2	EA2 90 2E4	2	EA2 90 206	2	EA2 90 2F6	2
LS 132 M	11	EA2 11 344	2	EA2 11 345 ²	2	EA2 11 3E5	2	EA2 11 346	2	EA2 11 3E6	2
LS 160 MP	11	EA2 11 302	5	EA2 11 304 ²	1	EA2 11 3E4	2				
LS 160 MP	15	EA2 15 302	5	EA2 15 304 ²	1	EA2 15 3E4	2				
LS 160 L	18.5	EA2 18 302	3	EA2 18 304 ²	2	EA2 18 3E4	2				
LS 180 MT	22	EA2 22 302	3	EA2 22 304 ²	2	EA2 22 3E4	3				
LS 200 LT	30	EA2 30 302	3	EA2 30 304	2	EA2 30 3E4	3				
LS 200 L	37	EA2 37 302	3	EA2 37 304	2	EA2 37 3E4	3				
LS 225 MT	45	EA2 45 302	2	EA2 45 304	2	EA2 45 3E4	2				
LS 250 MZ	55	EA2 55 302	2	EA2 55 304	2	EA2 55 3E4	2				
LS 280 SC	75	EA2 75 302	1			EA2 75 3E4	1				
LS 280 MC	90	EA2 90 302	1			EA0 00 194	1				
LS 315 SP	110	MA2 11 402	1			MA0 00 195	1				
LS 315 MP	132	MA2 13 402	1			MA0 00 196	1				
LS 315 MR	160		-				-				
LS 315 MR ¹	200		-				-				

1. Temperature rise class F.

2. Motors IM B5 / IM V1.

Selection example :

Speed :	3000 min ⁻¹ - 2 poles
Power :	30 kW
Mounting and position :	IM 2001 (IM B35)
Mains supply voltage :	400 V

Designation :

2P LS 200 LT 30 kW IM 2001 (IM B35)
400 V

Code : EA2 30 3E4

LS

totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

4
poles
1500 min⁻¹

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 100 L	3	1437	20.1	6.5	0.81	82.6	6	22.5
LS 112 M	4	1438	26.8	8.3	0.83	84.2	7.1	24.9
LS 132 S	5.5	1447	36.7	11.1	0.83	85.7	6.3	36.5
LS 132 M	7.5	1451	49.4	15.2	0.82	87	7	54.7
LS 132 M	9	1455	59.3	18.1	0.82	87.7	6.9	59.9
LS 160 MP	11	1454	72.2	21	0.86	88.4	7.7	70
LS 160 LR	15	1453	98	28.8	0.84	89.4	7.5	86
LS 180 MT	18.5	1456	121	35.2	0.84	90.3	7.6	100
LS 180 LR	22	1456	144	41.7	0.84	90.7	7.9	112
LS 200 LT	30	1460	196	56.3	0.84	91.5	6.6	165
LS 225 ST	37	1468	241	68.7	0.84	92.5	6.3	205
LS 225 MR	45	1468	293	83.3	0.84	92.8	6.3	235
LS 250 ME	55	1478	355	101	0.84	93.6	7	320
LS 280 SC	75	1478	485	137	0.84	94.2	7.2	380
LS 280 MD	90	1478	581	164	0.84	94.4	7.6	450
LS 315 SP	110	1484	708	197	0.85	94.8	7	670
LS 315 MP	132	1484	849	236	0.85	95	7.6	750
LS 315 MR	160	1484	1030	286	0.85	95	7.7	845
LS 315 MR ¹	200	1486	1285	359	0.84	95.8	8.1	860

1. Temperature rise class F.

LS totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - $\Delta T 80 K$ - 400 V Δ - S1

4
poles
1500 min⁻¹

A

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 100 L	3	EA4 30 208	10	EA4 30 210 ²	5	EA4 30 2G0	2	EA4 30 212	2	EA4 30 2H2	2
LS 112 M	4	EA4 40 202	10	EA4 40 204 ²	5	EA4 40 2G4	2	EA4 40 206	2	EA4 40 2H6	2
LS 132 S	5.5	EA4 55 208	10	EA4 55 210 ²	5	EA4 55 2G0	2	EA4 55 212	2	EA4 55 2H2	2
LS 132 M	7.5	EA4 75 208	10	EA4 75 210 ²	5	EA4 75 2G0	2	EA4 75 212	2	EA4 75 2H2	2
LS 132 MR	9	EA4 90 202	10	EA4 90 204 ²	2	EA4 90 2G4	2	EA4 90 206	2	EA4 90 2H6	2
LS 160 MP	11	EA4 11 302	5	EA4 11 304 ²	2	EA4 11 3G4	2				
LS 160 LR	15	EA4 15 302	5	EA4 15 304 ²	2	EA4 15 3G4	2				
LS 180 MT	18.5	EA4 18 302	3	EA4 18 304 ²	2	EA4 18 3G4	3				
LS 180 LR	22	EA4 22 302	3	EA4 22 304 ²	2	EA4 22 3G4	3				
LS 200 LT	30	EA4 30 302	3	EA4 30 304	2	EA4 30 3G4	3				
LS 225 ST	37	EA4 37 302	3	EA4 37 304	2	EA4 37 3G4	3				
LS 225 MR	45	EA4 45 302	2	EA4 45 304	1	EA4 45 3G4	2				
LS 250 ME	55	EA4 55 302	2			EA4 55 3G4	2				
LS 280 SC	75	EA4 75 302	1			EA4 75 3G4	1				
LS 280 MD	90	EA4 90 302	1			EA0 00 201	1				
LS 315 SP	110	MAA 11 402	1			MA0 00 202	1				
LS 315 MP	132	MAA 13 402	1			MA0 00 203	1				
LS 315 MR	160	MA0 00 007	1			MA0 00 204	1				
LS 315 MR ¹	200		-				-				

1. Temperature rise class F.

2. Motors IM B5 / IM V1.

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	4 kW
Mounting and position :	IM 2101 (IM B34)
Mains supply voltage :	400 V

Designation :

**4P LS 112 M 4 kW IM 2101 (IM B34)
400 V**

Code : EA4 40 2H6

LS

totally enclosed three-phase asynchronous motors

Selection

A

6
poles
1000 min⁻¹

IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 132 S	3	957	30,3	6.8	0.78	81.1	6	38.3
LS 132 M	4	961	39.6	9.3	0.75	83.6	5.9	53.3
LS 132 M	5.5	960	54.2	13.3	0.71	84.1	5.5	59.4
LS 160 M	7.5	967	74.1	16.1	0.79	85.2	4.7	81
LS 160 L	11	967	108	23.3	0.79	86.3	4.6	105
LS 180 LR	15	968	147.9	31.9	0.78	87.1	5.4	110
LS 200 LT	18.5	970	182	37	0.81	89	6.4	160
LS 200 L	22	972	216	43.6	0.81	89.9	6	190
LS 225 MR	30	968	296	59.5	0.81	89.9	6	235
LS 250 ME	37	978	361	71.1	0.81	92.7	6.2	305
LS 280 SC	45	978	439	86.5	0.81	92.7	6.2	340
LS 280 MC	55	978	537	106	0.81	92.6	6	385
LS 315 SP	75	980	731	140	0.83	93.3	7.2	690
LS 315 MP	90	980	877	164	0.85	93.1	7.2	760
LS 315 MR	110	980	1072	200	0.85	93.5	7.2	850
LS 315 MR	132	986	1278	242	0.83	94.8	6.6	830

8
poles
750 min⁻¹

IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 132 M	3	712	40.7	8	0.65	79.8	4.3	53.9
LS 160 M	4	718	53.2	11	0.63	83.3	3.9	84
LS 160 M	5.5	716	73.4	15.1	0.63	83.3	3.9	89
LS 160 L	7.5	714	100	20.6	0.63	83.4	3.9	101
LS 180 L	11	720	146	25.6	0.72	86	3.8	140
LS 200 L	15	725	198	32.9	0.75	87.7	4.4	185
LS 225 ST	18.5	725	244	42.4	0.72	87.5	4.2	210
LS 225 MR	22	725	289	51.9	0.7	87.4	4.4	240
LS 250 ME	30	730	392	60.3	0.79	90.9	5.8	330
LS 280 SC	37	730	484	74.3	0.79	91	5.6	370
LS 280 MD	45	728	590	91.4	0.78	91.1	5.4	430
LS 315 SP	55	738	712	105	0.81	93.2	5.4	660
LS 315 MR	75	738	970	143	0.81	93.6	5.4	815

LS totally enclosed three-phase asynchronous motors

Selection

IP 55 - 50 Hz - Class F - Δ T 80 K - 400 V Δ - S1

6
poles
1000 min⁻¹

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 2001 (IM B35)	
		Code	Qty	Code	Qty
LS 132 S	3	MA6 30 202	2		-
LS 132 M	4	MA6 40 202	2		-
LS 132 M	5.5	MA6 55 202	2		-
LS 160 M	7.5	MA6 75 202	3	MA6 75 2A2	1
LS 160 L	11	MA6 11 302	3	MA6 11 3A2	1
LS 180 LR	15	MA6 15 302	2	MA6 15 3A2	1
LS 200 LT	18.5	MA6 18 302	2	MA6 18 3A2	1
LS 200 L	22	MA6 22 302	2	MA6 22 3A2	1
LS 225 MR	30	MA6 30 302	1	MA6 30 3A2	1
LS 250 ME	37		-		-
LS 280 SC	45		-		-
LS 280 MC	55		-		-
LS 315 SP	75		-		-
LS 315 MP	90		-		-
LS 315 MR	110		-		-
LS 315 MR	132		-		-

IP 55 - 50 Hz - Class F - Δ T 80 K - 400 V Δ - S1

8
poles
750 min⁻¹

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 2001 (IM B35)	
		Code	Qty	Code	Qty
LS 132 M	3		-		-
LS 160 M	4		-		-
LS 160 M	5.5		-		-
LS 160 L	7.5		-		-
LS 180 L	11		-		-
LS 200 L	15		-		-
LS 225 ST	18.5		-		-
LS 225 MR	22		-		-
LS 250 ME	30		-		-
LS 280 SC	37		-		-
LS 280 MD	45		-		-
LS 315 SP	55		-		-
LS 315 MR	75		-		-

Selection example :

Speed :	1000 min ⁻¹ - 6 poles
Power :	18.5 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	400 V

Designation :

6P LS 200 LT 18.5 kW IM 1001 (IM B3)
400 V

Code : MA6 18 302

LS

totally enclosed three-phase asynchronous motors

Selection

A

2
poles
3000 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - Δ T 80 K - 230 V Δ / 400 V Y - S1

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 71 L	0.37	2800	1.3	0.98	0.8	68	5.2	6.4
LS 71 L	0.55	2800	1.9	1.32	0.8	75	6	7.3
LS 80 L	0.75	2840	2.5	1.64	0.87	76	5.9	8.2
LS 80 L	1.1	2837	3.7	2.4	0.84	78	5.8	9.7
LS 90 S	1.5	2870	5	3.4	0.81	79.6	8	12
LS 90 L	2.2	2862	7.4	4.3	0.88	83.6	7.7	16
LS 100 L	3	2868	10	6.3	0.81	83.9	7.5	20
LS 112 M	4	2877	13.5	7.8	0.85	86	7.8	24.4
LS 112 MG	5.5	2916	18.1	10.5	0.88	86.6	9	33
LS 132 S	5.5	2916	18.1	10.5	0.88	86.6	9	34.4
LS 132 S	7.5	2905	24.5	14.7	0.85	86.5	8.7	39
LS 132 M	9	2910	29.6	17.3	0.85	88.1	8.6	49
LS 132 M	11	2944	36	20.7	0.86	89.4	7.5	54
LS 160 MP	11	2944	36	20.7	0.86	89.4	7.5	62
LS 160 MP	15	2935	48.8	28.4	0.85	90	8.1	72

1. See page A2.44 for flange dimensions.

LS totally enclosed three-phase asynchronous motors

Selection

2
poles
3000 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 230 V Δ / 400 V Y - S1

A

Non standard flange motors : as an option, the motors may be fitted with flanges which are smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz P_N kW	IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 71 L	0.37	MA2 37 L21	5		-	MA2 37 T23	5	MA2 37 TC3	5
LS 71 L	0.55	MA2 55 L21	5		-	MA2 55 T23	5	MA2 55 TC3	5
LS 80 L	0.75	MA2 75 13F	5	MA2 75 1DF	5	MA2 75 13H	5	MA2 75 1DH	5
LS 80 L	1.1	EA2 11 23F	5	EA2 11 2DF	5	EA2 11 13H	5	EA2 11 2DH	5
LS 90 S	1.5	EA2 15 23F	5	EA2 15 2DF	5	EA2 15 23H	5	EA2 15 2DH	5
LS 90 L	2.2	EA2 22 22B	5	EA2 22 2CB	5	EA2 22 22D	5	EA2 22 2CD	5
LS 100 L	3	EA2 30 20D	5	EA2 30 2AD	5	EA2 30 20F	5	EA2 30 2AF	5
LS 112 M	4	EA2 40 20D	5	EA2 40 2AD	5	EA2 40 20F	5	EA2 40 2AF	5
LS 112 MG	5.5	EA2 55 20D	5	EA2 55 2AD	5	EA2 55 20F	5	EA2 55 2AF	5
LS 132 S	5.5	EA2 55 20J	2	EA2 55 2AJ	2	EA2 55 21B	2	EA2 55 2BB	2
LS 132 S	7.5	EA2 75 20D	2	EA2 75 2AD	2	EA2 75 20F	2	EA2 75 2AF	2
LS 132 M	9	EA2 90 20D	2	EA2 90 2AD	2	EA2 90 20F	2	EA2 90 2AF	2
LS 132 M	11	EA2 11 34C	2	EA2 11 3EC	2		-		-
LS 160 MP	11	EA2 11 30D	2	EA2 11 3AD	2				
LS 160 MP	15	EA2 15 30D	2	EA2 15 3AD	2				

1. See page A2.44 for flange dimensions.

Selection example :

Speed :	3000 min ⁻¹ - 2 poles
power :	1.5 kW
mounting and position :	IM 2001 (IM B35)
Mains supply voltage :	230/400 V

Designation :

2P LS 90 S 1.5 kW IM 2001 (IM B35)
FF 130 230/400 V

Code : EA2 15 2DF

LS

totally enclosed three-phase asynchronous motors

Selection

4
poles
1500 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 230 V Δ / 400 V Y - S1

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 71 M	0.25	1425	1.7	0.8	0.65	69	4.6	6.4
LS 71 M	0.37	1420	2.5	1.06	0.7	72	4.9	7.3
LS 71 L	0.55	1400	3.8	1.62	0.7	70	4.8	8.3
LS 80 L	0.55	1410	3.8	1.42	0.76	73.4	4.5	8.2
LS 80 L	0.75	1400	5.1	2.01	0.77	70	4.5	9.3
LS 90 S	1.1	1429	7.4	2.5	0.84	76.8	4.8	11.5
LS 90 L	1.5	1428	10	3.4	0.82	78.5	5.3	13.5
LS 100 L	2.2	1436	14.7	4.8	0.81	81	5.9	20
LS 100 L	3	1437	20.1	6.5	0.81	82.6	6	22.5
LS 112 M	4	1438	26.8	8.3	0.83	84.2	7.1	24.9
LS 132 S	5.5	1447	36.7	11.1	0.83	85.7	6.3	36.5
LS 132 M	7.5	1451	49.4	15.2	0.82	87	7	54.7
LS 132 M	9	1455	59.3	18.1	0.82	87.7	6.9	59.9

1. See page A2.44 for flange dimensions.

6
poles
1000 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 230 V Δ / 400 V Y - S1

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 71 M	0.18	895	1.8	0.81	0.62	52	2.7	6.4

1. See page A2.44 for flange dimensions.

LS totally enclosed three-phase asynchronous motors

Selection

4
poles
1500 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 230 V Δ / 400 V Y - S1

A

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz P_N kW	IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 71 M	0.25	MA4 25 12B	5		-	MA4 25 12D	5		-
LS 71 M	0.37	MA4 37 12B	5		-	MA4 37 12D	5		-
LS 71 L	0.55	MA4 55 13D	5		-		-		-
LS 80 L	0.55	MA4 55 11F	5	MA4 55 1BF	5	MA4 55 11H	5	MA4 55 1BH	5
LS 80 L	0.75	MA4 75 12B	5	MA4 75 1CB	5	MA4 75 12D	5	MA4 75 1CD	5
LS 90 S	1.1	EA4 11 22B	5	EA4 11 2CB	5	EA4 11 22D	5	EA4 11 2CD	5
LS 90 L	1.5	EA4 15 20J	5	EA4 15 2AJ	5	EA4 15 21B	5	EA4 15 2BB	5
LS 100 L	2.2	EA4 22 20J	5	EA4 22 2AJ	5	EA4 22 21B	5	EA4 22 2BB	5
LS 100 L	3	EA4 30 20J	5	EA4 30 2AJ	5	EA4 30 21B	5	EA4 30 2BB	5
LS 112 M	4	EA4 40 20D	5	EA4 40 2AD	5	EA4 40 20F	5	EA4 40 2AF	5
LS 132 S	5.5	EA4 55 20J	2	EA4 55 2AJ	2	EA4 55 21B	2	EA4 55 2BB	2
LS 132 M	7.5	EA4 75 20J	2	EA4 75 2AJ	2	EA4 75 21B	2	EA4 75 2BB	2
LS 132 M	9	EA4 90 20D	2	EA4 90 2AD	2	EA4 90 20F	2	EA4 90 2AF	2

1. See page A2.44 for flange dimensions.

6
poles
1000 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 230 V Δ / 400 V Y - S1

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz P_N kW	IM 3001 (IM B5)	
		Code	Qty
LS 71 M	0.18	MA0 00 205	5

1. See page A2.44 for flange dimensions.

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	2.2 kW
Mounting and position :	IM 2101 (IM B34)
Mains supply voltage :	230/400 V

Designation :

4P LS 100 L 2.2 kW IM 2101 (IM B34)
FF 115 230/400 V

Code : EA4 22 2BB

LS

totally enclosed three-phase asynchronous motors

Selection

2
poles
3000 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 100 L	3	2868	10	6.3	0.81	83.9	7.5	20
LS 112 M	4	2877	13.5	7.8	0.85	86	7.8	24.4
LS 112 MG	5.5	2916	18.1	10.5	0.88	86.6	9	33
LS 132 S	5.5	2916	18.1	10.5	0.88	86.6	9	34.4
LS 132 S	7.5	2905	24.5	14.7	0.85	86.5	8.7	39
LS 132 M	9	2910	29.6	17.3	0.85	88.1	8.6	49
LS 132 M	11	2944	36	20.7	0.86	89.4	7.5	54
LS 160 MP	11	2944	36	20.7	0.86	89.4	7.5	62
LS 160 MP	15	2935	48.8	28.4	0.85	90	8.1	72
LS 160 L	18.5	2934	60.2	33.7	0.87	91	8	88

¹. See page A2.44 for flange dimensions.

LS totally enclosed three-phase asynchronous motors

Selection

2
poles
3000 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

A

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz P_N kW	IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 100 L	3	EA2 30 20E	5	EA2 30 2AE	5	EA2 30 20G	5	EA2 30 2AG	5
LS 112 M	4	EA2 40 20E	5	EA2 40 2AE	5	EA2 40 20G	5	EA2 40 2AG	5
LS 112 MG	5.5	EA2 55 20E	5	EA2 55 2AE	5	EA2 55 20G	5	EA2 55 2AG	5
LS 132 S	5.5	EA2 55 21A	2	EA2 55 2BA	2	EA2 55 21C	2	EA2 55 2B2	2
LS 132 S	7.5	EA2 75 20E	2	EA2 75 2AE	2	EA2 75 20G	2	EA2 75 2AG	2
LS 132 M	9	EA2 90 20E	2	EA2 90 2AE	2	EA2 90 20G	2	EA2 90 2AG	2
LS 132 M	11	EA2 11 50A	2	EA2 11 5AD	2		-		-
LS 160 MP	11	EA2 11 30A	2	EA2 11 30B	2				
LS 160 MP	15	EA2 15 30A	2	EA2 15 30B	2				
LS 160 L	18.5	EA2 18 30A	2	EA2 18 30B	2				

1. See page A2.44 for flange dimensions.

Selection example :

Speed :	3000 min ⁻¹ - 2 poles
Power :	7.5 kW
Mounting and position :	IM 3001 (IM B5) FF215
Mains supply voltage :	400 V

Designation :

2P LS 132 S 7.5 kW IM 3001 (IM B5)
FF 215 400 V

Code : EA2 75 20E

LS

totally enclosed three-phase asynchronous motors

Selection

4
poles
1500 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz	Rated speed	Rated moment	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
	P_N kW	N_N min ⁻¹	M_N N.m	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 100 L	3	1437	20.1	6.5	0.81	82.6	6	22.5
LS 112 M	4	1438	26.8	8.3	0.83	84.2	7.1	24.9
LS 132 S	5.5	1447	36.7	11.1	0.83	85.7	6.3	36.5
LS 132 M	7.5	1451	49.4	15.2	0.82	87	7	54.7
LS 132 M	9	1455	59.3	18.1	0.82	87.7	6.9	59.9

1. See page A2.44 for flange dimensions.

LS totally enclosed three-phase asynchronous motors

Selection

4
poles
1500 min⁻¹

Non standard flange
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V Δ - S1

A

Non standard flange motors : as an option, the motors may be fitted with flanges smaller than the standard flanges¹. Consequently, the dimensions of the flanges M, N and P correspond to the dimensions of the standard flange for the next frame size down.

Type	Rated power at 50 Hz P_N kW	IM 3001 (IM B5)		IM 2001 (IM B35)		IM 3601 (IM B14)		IM 2101 (IM B34)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty
LS 100 L	3	EA4 30 21A	5	EA4 30 2GA	5	EA4 30 21C	5	EA4 30 2BC	5
LS 112 M	4	EA4 40 20E	5	EA4 40 2AE	5	EA4 40 20G	5	EA4 40 2AG	5
LS 132 S	5.5	EA4 55 21A	2	EA4 55 2BA	2	EA4 55 21G	2	EA4 55 2BC	2
LS 132 M	7.5	EA4 75 21A	2	EA4 75 2BA	2	EA4 75 21G	2	EA4 75 2BC	2
LS 132 M	9	EA4 90 20E	2	EA4 90 2AE	2	EA4 90 21G	2	EA4 90 2AG	2

1. See page A2.44 for flange dimensions.

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	7.5 kW
Mounting and position :	IM 2001 (IM B35)
Mains supply voltage :	400 V

Designation :

4P LS 132 M 7.5 kW IM 2001 (IM B35)
FF 215 400 V

Code : EA4 75 2BA

LS multi-speed closed three-phase asynchronous motors

Selection

A

**2-4
Poles**
3000-1500 min⁻¹

Use : centrifugal machines
1 winding (Dahlander) - PTO thermal protection -n/c
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1

The motors are for use with quadratic resistive torque machines (centrifugal machines).
The high speed power (GV) is that of the standard motor having the same speed in the same frame size (from 80 to 315 included).
The motors connection is provided only for one power supply voltage (Dahlander connection) and it does not allow star delta starting.

Type		Rated power at 50 Hz	Rated speed	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight IM B3 kg
		P_N kW	N_N min ⁻¹	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	
LS 71 M	GV ¹	0.37						8.3
	PV ²	0.075						
LS 71 M	GV	0.55	2810	1.4	0.9	69	4.7	8.3
	PV	0.11	1420	0.4	0.7	73	4.6	
LS 80 L	GV	1.1	2810	2.5	0.87	72	5.2	10.9
	PV	0.25	1420	0.66	0.78	70	4.6	
LS 90 S	GV	1.5	2850	3.8	0.82	70	5.1	14
	PV	0.35	1440	0.9	0.77	75	5.7	
LS 90 L	GV	2.2	2840	4.8	0.9	74	5.8	15.2
	PV	0.6	1450	1.5	0.82	71	5.2	
LS 100 L	GV	3	2920	6.6	0.84	78	6.8	24.5
	PV	0.8	1450	1.7	0.82	83	5.8	
LS 112 MU	GV	4.5	2910	9.9	0.83	79	6.9	37
	PV	1.3	1460	3.1	0.75	80	6	
LS 132 SM	GV	6	2895	13.2	0.84	78	6.2	50
	PV	1.6	1440	3.7	0.79	79	5.5	
LS 132 M	GV	9	2920	18.6	0.85	82	7.3	60
	PV	2.5	1440	5.6	0.79	81	6.2	
LS 160 M	GV	13.5	2920	26	0.87	86.3	6.4	85
	PV	3.3	1465	6.3	0.85	88.7	6.4	
LS 160 L	GV	19	2925	35.3	0.89	87.4	7.3	100
	PV	4.5	1465	8.4	0.88	87.5	6.7	
LS 180 LU	GV	24	2935	44.5	0.89	87.5	7.5	165
	PV	8	1455	15.2	0.87	87.5	5	
LS 200 L	GV	31	2955	55.9	0.91	88	8	205
	PV	11	1465	20.2	0.89	88.5	5.2	
LS 200 LU	GV	40	2955	71	0.90	90	8	235
	PV	14	1465	25.1	0.88	91.5	5.2	
LS 225 MG	GV	50	2970	87	0.90	92	8.8	320
	PV	17	1476	30.9	0.85	92.2	5.5	
LS 250 ME	GV	59	2970	103	0.90	92	8.8	340
	PV	20	1476	36.4	0.85	92.2	5.5	
LS 250 ME	GV	70	2970	122	0.90	92	8.8	380
	PV	24	1476	43.7	0.85	92.2	5.5	
LS 280 MD	GV	85	2970	148	0.90	92	8.8	450
	PV	30	1476	54.6	0.85	92.2	5.5	
LS 315 MR	GV	100	2975	168	0.92	93.3	8.5	825
	PV	35	1485	60.9	0.88	94.3	5.5	

1. GV : High speed. 2. PV : Low speed.

**4-6
Poles**
1500-1000 min⁻¹

Use : centrifugal machines
1 winding (PAM)¹
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1

The motors are for use with quadratic resistive torque machines (centrifugal machines).
The high speed power (GV) is that of the standard motor having the same speed in the same frame size (from 80 to 315 included).
The motors connection is provided only for one power supply voltage (Dahlander connection) and it does not allow star delta starting.

Type		Rated power at 50 Hz	Rated speed	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight IM B3 kg
		P_N kW	N_N min ⁻¹	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	
LS 80 L	GV ²	0.75	1400	1,8	0,87	67	3,8	10,9
	PV ³	0,25	905	0,9	0,88	46	2,1	
LS 90 SL	GV	1,1	1420	2,6	0,79	77	6	14
	PV	0,37	940	2,2	0,64	57	3,3	
LS 90 L	GV	1,5	1425	3,6	0,8	78	6,1	15,2
	PV	0,55	940	1,5	0,63	57	3,3	
LS 100 L	GV	2,2	1400	4,8	0,86	77	6,8	24,5
	PV	0,75	940	2,3	0,75	63	4,2	
LS 100 L	GV	3	1410	6,7	0,84	77	6,6	24,5
	PV	1,1	940	3,2	0,76	65	4,4	
LS 112 MU	GV	4	1450	9	0,78	82	7	37
	PV	1,5	965	4,7	0,70	67	3,6	
LS 132 SM	GV	5,5	1460	11,7	0,82	84	6,4	55
	PV	1,8	970	7,4	0,70	70	4,4	
LS 132 M	GV	7,5	1445	15,5	0,84	83	7	60
	PV	2,5	975	6,2	0,62	69	4	

1. 2 separate windings, see pages A2.30 and A2.31. 2. GV : High speed. 3. PV : Low speed.

LS multi-speed closed three-phase asynchronous motors

Selection

**2-4
Poles**
3000-1500 min⁻¹

Use : centrifugal machines
1 winding (Dahlander) - PTO thermal protection -n/c
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1



Type		Rated power at 50 Hz	IM 1001 PTO (IM B3)	
		P_N kW	Code	Qty
LS 71 M	GV ¹	0.37		-
	PV ²	0.075		
LS 71 M	GV	0.55		-
	PV	0.11		
LS 80 L	GV	1.1	MA9 112 M2	2
	PV	0.25		
LS 90 S	GV	1.5	MA9 153 M2	2
	PV	0.35		
LS 90 L	GV	2.2	MA9 206 M2	2
	PV	0.6		
LS 100 L	GV	3	MA9 308 M2	2
	PV	0.8		
LS 112 MU	GV	4.5	MA9 451 M2	2
	PV	1.3		
LS 132 SM	GV	6	MA9 601 M2	2
	PV	1.6		
LS 132 M	GV	9	MA9 902 M2	2
	PV	2.5		
LS 160 M	GV	13.5		-
	PV	3.3		
LS 160 L	GV	19		-
	PV	4.5		
LS 180 LU	GV	24		-
	PV	8		
LS 200 L	GV	31		-
	PV	11		
LS 200 LU	GV	40		-
	PV	14		
LS 225 MG	GV	50		-
	PV	17		
LS 250 ME	GV	59		-
	PV	20		
LS 250 ME	GV	70		-
	PV	24		
LS 280 MD	GV	85		-
	PV	30		
LS 315 MR	GV	100		-
	PV	35		

1. GV : High speed. 2. PV : Low speed.

Selection example :

Speed :	3000-1500 min ⁻¹ -2/4 poles
Power :	3/0.8 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	400 V

Designation :

2/4 P LS 100 L 3/0.8 kW IM 1001 (IM B3) 400 V

Code : MA9 308 M2

**4-6
Poles**
1500-1000 min⁻¹

Use : centrifugal machines
1 winding (PAM)¹
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1

Type		Rated power at 50 Hz	IM 1001 (IM B3)	
		P_N kW	Code	Qty
LS 80 L	GV ²	0.75		-
	PV ³	0.25		
LS 90 SL	GV	1.1		-
	PV	0.37		
LS 90 L	GV	1.5		-
	PV	0.55		
LS 100 L	GV	2.2		-
	PV	0.75		
LS 100 L	GV	3		-
	PV	1.1		
LS 112 MU	GV	4		-
	PV	1.5		
LS 132 SM	GV	5.5		-
	PV	1.8		
LS 132 M	GV	7.5		-
	PV	2.5		

1. 2 separate windings, see pages A2.30 and A2.31.
2. GV : High speed.
3. PV : Low speed.

LS multi-speed closed three-phase asynchronous motors

Selection

A

4-6 Poles
1500-1000 min⁻¹

Use : centrifugal machines
2 separate windings¹ - PTO thermal protection -n/c
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1

The motors are for use with quadratic resistive torque machines (centrifugal machines).
The high speed power (GV) is that of the standard motor having the same speed in the same frame size (from 80 to 315 included).
The motors connection is provided only for one power supply voltage (Dahlander connection) and it does not allow star delta starting.

Type		Rated power at 50 Hz	Rated speed	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
		P_N kW	N_N min ⁻¹	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 71 L	GV ²	0.25	1430	0.75	0.78	66	3.8	8.3
	PV ³	0.09	960	0.55	0.64	40	2.3	
LS 80 L	GV	0.7	1435	2.1	0.73	67	4.5	10.9
	PV	0.2	945	1.05	0.72	40	2.5	
LS 90 S	GV	0.85	1430	2.2	0.78	70	5.5	14
	PV	0.25	930	0.85	0.79	55	3.5	
LS 90 L	GV	1.4	1425	3.5	0.79	73	6	15.2
	PV	0.5	925	1.4	0.80	61	3.6	
LS 100 L	GV	2.4	1425	5.7	0.82	75	5.6	24.5
	PV	0.75	940	2.1	0.75	66	4.3	
LS 112 MG	GV	3.4	1460	8.7	0.72	78	6.9	37
	PV	1.1	965	3.4	0.75	64	4	
LS 132 SM	GV	4	1450	8.9	0.79	82	5.8	50
	PV	1.2	970	3.2	0.68	80	4.5	
LS 132 M	GV	6.3	1445	13.2	0.82	84	5.9	60
	PV	1.9	970	5	0.71	75	5.2	
LS 160 M	GV	9	1465	18.8	0.81	85.2	7	85
	PV	3	975	7.8	0.75	78.6	5.2	
LS 160 M	GV	11	1465	22.6	0.82	85.7	7.4	85
	PV	3.7	975	9.3	0.76	78.8	5.5	
LS 160 L	GV	13	1465	25.6	0.84	87.3	7.8	100
	PV	4.3	970	10.5	0.74	74.9	5.5	
LS 160 LU	GV	15	1465	29.3	0.84	87.9	7.5	110
	PV	5	970	12.1	0.74	77.8	5.1	
LS 180 L	GV	18.5	1460	34.1	0.88	89	5.5	135
	PV	6.5	980	14.8	0.78	81	5	
LS 180 LU	GV	22	1470	41.5	0.86	89.0	6.8	165
	PV	7.5	980	16.6	0.80	81.5	4.8	
LS 200 L	GV	25	1475	46.9	0.85	90.5	6.4	205
	PV	8.5	985	19.3	0.77	82.5	4.8	
LS 200 LU	GV	30	1475	56.0	0.85	91.0	6	235
	PV	9	985	20.8	0.74	84.5	5.3	
LS 225 SR	GV	34	1475	64	0.84	91.6	6.3	235
	PV	11	985	25.9	0.73	84.0	5.1	
LS 250 ME	GV	42	1480	77.7	0.85	91.8	6.5	320
	PV	14	985	31.8	0.75	87	5.1	
LS 250 MF	GV	52	1480	96	0.85	92	6.5	320
	PV	19	985	43.2	0.73	87	5.1	
LS 280 SK	GV	75	1485	135	0.86	93.5	7.7	720
	PV	28	985	56.3	0.80	89.7	6.6	
LS 280 MK	GV	90	1485	161	0.86	93.7	7.7	720
	PV	33	985	66.2	0.80	90.0	6.9	
LS 315 SP	GV	110	1485	199	0.85	93.9	8	825
	PV	37	985	74	0.80	90.1	6.9	
LS 315 MR	GV	132	1485	244	0.83	94.0	9.2	825
	PV	44	985	88	0.80	90.2	7.1	

1. LS 80 to LS 132, 1 winding (PAM), see pages A2.28 and A2.29.
2. GV : High speed.
3. PV : Low speed.

LS multi-speed closed three-phase asynchronous motors

Selection

**4-6
Poles**
1500-1000 min⁻¹

Use : centrifugal machines
2 separate windings¹ - PTO thermal protection -n/c
IP 55 - 50 Hz - Class F - 400 V - S1

A

Type		Rated power at 50 Hz	IM 1001 PTO (IM B3)	Qty
		P_N kW	Code	
LS 71 L	GV ²	0.25		-
	PV ³	0.09		
LS 80 L	GV	0.7	MA9 074 B2	5
	PV	0.2		
LS 90 S	GV	0.85	MA9 064 B2	5
	PV	0.25		
LS 90 L	GV	1.4	MA9 144 B2	5
	PV	0.5		
LS 100 L	GV	2.4	MA9 244 B2	2
	PV	0.75		
LS 112 MG	GV	3.4	MA9 344 B2	2
	PV	1.1		
LS 132 SM	GV	4	MA9 404 B2	2
	PV	1.2		
LS 132 M	GV	6.3	MA9 634 B2	2
	PV	1.9		
LS 160 M	GV	9	MA9 094 C2	2
	PV	3		
LS 160 M	GV	11	MA9 114 C2	2
	PV	3.7		
LS 160 L	GV	13		-
	PV	4.3		
LS 160 LU	GV	15	MA9 154 B2	2
	PV	5		
LS 180 L	GV	18.5	MA9 164 C2	2
	PV	6.5		
LS 180 LU	GV	22	MA9 224 B2	2
	PV	7.5		
LS 200 L	GV	25		-
	PV	8.5		
LS 200 LU	GV	30		-
	PV	9		
LS 225 SR	GV	34		-
	PV	11		
LS 250 ME	GV	42		-
	PV	14		
LS 250 MF	GV	52		-
	PV	19		
LS 280 SK	GV	75		-
	PV	28		
LS 280 MK	GV	90		-
	PV	33		
LS 315 SP	GV	110		-
	PV	37		
LS 315 MR	GV	132		-
	PV	44		

1. LS 80 to LS 132, 1 winding (PAM). see page A2.28.

2. GV : High speed.

3. PV : Low speed.

Selection example :

Speed :	1500-1000 min ⁻¹ -4/6 poles
Power :	18.5/6.5 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	400 V

Designation :

4/6 P LS 180 L 18.5/6.5 kW IM 1001 (IM B3) 400 V

Code : MA9 164 C2

LS multi-speed closed three-phase asynchronous motors

Selection



4-8 Poles
1500-750 min⁻¹

Use : centrifugal machines
1 winding (Dahlander) - Thermal protections with PTO -n/c or with PTF -n/o
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1

The motors are for use with quadratic resistive torque machines (centrifugal machines).
The high speed power (GV) is that of the standard motor having the same speed in the same frame size (from 80 to 315 included).
The motors connection is provided only for one power supply voltage (Dahlander connection) and it does not allow star delta starting.

Type		Rated power at 50 Hz	Rated speed	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
		P_N kW	N_N min ⁻¹	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 71 M	GV ¹	0.25	1430	0.8	0.7	65	3.5	8.3
	PV ²	0.06	640	0.4	0.6	98	1.5	
LS 71 M	GV	0.37	1430	1.15	0.8	60	4	8.3
	PV	0.07	670	0.5	0.7	30	2.1	
LS 80 L	GV	0.55	1435	1.15	0.71	69	4.8	10.9
	PV	0.09	715	0.6	0.48	46	2.3	
LS 80 L	GV	0.75	1425	2.3	0.72	65	4.8	10.9
	PV	0.12	710	0.9	0.52	41	2.3	
LS 90 S	GV	1.1	1435	2.8	0.82	71	4.6	14
	PV	0.18	720	1	0.47	52	2.9	
LS 90 L	GV	1.5	1455	4	0.74	74	5.8	15.2
	PV	0.25	725	1.5	0.56	51	3.4	
LS 100 L	GV	2.2	1435	5.5	0.81	72	5.1	24.5
	PV	0.37	720	2.2	0.48	51	2.6	
LS 100 L	GV	3	1435	7.4	0.79	75	5.5	24.5
	PV	0.55	715	2.6	0.52	58	2.7	
LS 112 MU	GV	4	1455	8.9	0.84	82	7.8	37
	PV	0.75	730	3.2	0.51	66	4.3	
LS 132 SM	GV	5.5	1425	11	0.86	83	5.3	55
	PV	1.1	715	3.7	0.56	77	3.1	
LS 132 M	GV	7.5	1435	15.3	0.84	84	5.8	60
	PV	1.5	720	5	0.57	75	3.4	
LS 160 M	GV	9	1465	18.1	0.85	84.4	7.3	85
	PV	2.2	725	6.2	0.63	83.3	4.1	
LS 160 M	GV	11	1465	21.5	0.85	87.0	7.5	85
	PV	2.8	730	7.7	0.65	83.6	4.2	
LS 160 L	GV	13	1465	25.1	0.85	87.8	7.6	100
	PV	3.3	725	9.1	0.63	80.8	4.1	
LS 160 L	GV	15	1460	28.6	0.86	88.1	7.6	100
	PV	3.8	725	10.1	0.64	81.8	4.2	
LS 180 L	GV	18.5	1465	34.9	0.86	89.0	6.7	135
	PV	4.8	730	12.1	0.67	85.2	3.7	
LS 180 LU	GV	22	1460	40.9	0.87	89.2	6.0	165
	PV	5.3	730	13.2	0.68	85.5	3.6	
LS 200 LT	GV	24	1470	45.2	0.85	90.1	7.1	170
	PV	6	730	15.4	0.63	86.0	3.7	
LS 200 L	GV	30	1475	55.8	0.86	90.3	6.1	205
	PV	7	735	18.6	0.65	86.6	3.8	
LS 225 SR	GV	37	1475	69.2	0.85	90.8	6.8	235
	PV	8.5	735	21.8	0.64	89.9	4.0	
LS 225 MG	GV	45	1482	83.1	0.85	92	7	235
	PV	11	738	26.3	0.66	91.3	4	
LS 250 ME	GV	55	1484	100.8	0.85	92.7	7.7	320
	PV	14	738	33.1	0.66	92.4	4	
LS 250 MF	GV	65	1484	118.7	0.85	93	7.7	320
	PV	16	738	37.7	0.66	92.8	4	
LS 280 SD	GV	75	1484	136.9	0.85	93	7.7	430
	PV	19	738	45.5	0.65	92.8	3.9	
LS 280 MK	GV	90	1485	159	0.87	93.8	8.7	665
	PV	23	740	54.8	0.67	90.5	4.8	
LS 315 SP	GV	110	1485	195	0.87	93.8	8.6	825
	PV	29	740	69.0	0.65	90.3	4.6	
LS 315 MP	GV	132	1485	238	0.85	94.1	8.3	790
	PV	35	740	86	0.67	90.5	4.9	
LS 315 MR	GV	160	1485	288	0.85	94.2	8.3	825
	PV	42	740	103	0.65	90.4	5.0	

1. GV : High speed.
2. PV : Low speed.

LS multi-speed closed three-phase asynchronous motors

Selection

**4-8
Poles**
1500-750 min⁻¹

Use : centrifugal machines
1 winding (Dahlander) - Thermal protections with PTO -n/c or with PTF -n/o
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1

A

Type		Rated power at 50 Hz P_N kW	IM 1001 PTO (IM B3)		IM 1001 PTF (IM B3)	
			Code	Qty	Code	Qty
LS 71 M	GV ¹ PV ²	0.25 0.06	MA9 024 M5	5		-
LS 71 M	GV PV	0.37 0.07	MA9 034 M4	5		-
LS 80 L	GV PV	0.55 0.09	MA9 054 M2	5		-
LS 80 L	GV PV	0.75 0.12	MA9 074 M2	5		-
LS 90 S	GV PV	1.1 0.18	MA9 014 M2	5		-
LS 90 L	GV PV	1.5 0.25	MA9 024 M2	5		-
LS 100 L	GV PV	2.2 0.37	MA9 024 M4	2		-
LS 100 L	GV PV	3 0.55	MA9 034 M2	2		-
LS 112 MU	GV PV	4 0.75	MA9 044 M2	2		-
LS 132 SM	GV PV	5.5 1.1	MA9 554 M2	2		-
LS 132 M	GV PV	7.5 1.5	MA9 754 M2	2		-
LS 160 M	GV PV	9 2.2	MA9 094 M2	2	MA0 000 44	2
LS 160 M	GV PV	11 2.8	MA9 114 M2	2	MA0 000 45	2
LS 160 L	GV PV	13 3.3	MA0 004 00	2	MA0 004 01	2
LS 160 L	GV PV	15 3.8	MA9 154 M2	2	MA0 000 46	2
LS 180 L	GV PV	18.5 4.8	MA0 004 02	2	MA0 004 03	2
LS 180 LU	GV PV	22 5.3	MA0 004 04	2	MA0 004 05	2
LS 200 LT	GV PV	24 6		-		-
LS 200 L	GV PV	30 7	MA0 004 08	2	MA0 004 09	2
LS 225 SR	GV PV	37 8.5		-		-
LS 225 MG	GV PV	45 11		-		-
LS 250 ME	GV PV	55 14		-		-
LS 250 MF	GV PV	65 16		-		-
LS 280 SD	GV PV	75 19		-		-
LS 280 MK	GV PV	90 23		-		-
LS 315 SP	GV PV	110 29		-		-
LS 315 MP	GV PV	132 35		-		-
LS 315 MR	GV PV	160 42		-		-

1. GV : High speed. 2. PV : Low speed.

Selection example :

Speed :	1500-750 min ⁻¹ -4/8 poles
Power :	15/3.8 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	400 V
Thermal protection :	PTO

Designation :

4/8 P LS 160 L 15/3.8 kW IM 1001 (IM B3) - PTO - 400V

Code : MA9 154 M2

LS multi-speed closed three-phase asynchronous motors

Selection

**6-12
poles**
1000-500 min⁻¹

Use : centrifugal machines
1 winding (Dahlander) - PTO thermal protection -n/c
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1

The motors are for use with quadratic resistive torque machines (centrifugal machines).
The high speed power (GV) is that of the standard motor having the same speed in the same frame size (from 80 to 315 included).
The motors connection is provided only for one power supply voltage (Dahlander connection) and it does not allow star delta starting.

Type		Rated power at 50 Hz	Rated speed	Rated current	Power factor	Efficiency	Starting torque / Rated torque	Weight
		P_N kW	N_N min ⁻¹	I_N (400 V) A	$\cos \varphi$ 100%	η 100%	I_D / I_N	IM B3 kg
LS 90 L	GV ¹	0.75	910	2.1	0.82	64	3.8	15
	PV ²	0.15	425	0.8	0.68	42	2.1	
LS 90 LU	GV	1.1	915	3.2	0.77	65	4.2	17
	PV	0.18	450	1.2	0.54	40	2.3	
LS 100 L	GV	1.5	915	4	0.79	68	4.5	24.5
	PV	0.25	450	1.5	0.55	44	2.4	
LS 112 MU	GV	2.2	950	5.6	0.79	71	4.5	37
	PV	0.37	465	2.1	0.52	50	2.1	
LS 132 SM	GV	3	955	8	0.70	77	4.5	55
	PV	0.55	475	3.8	0.43	58	2.4	
LS 132 M	GV	4	955	10.4	0.71	77	4.8	60
	PV	0.65	465	3.1	0.45	58	2.0	
LS 132 MU	GV	5.5	950	14.1	0.71	79	4.9	68
	PV	1	450	5.4	0.45	59	1.9	
LS 160 M	GV	7.5	975	17.5	0.77	80.5	5.0	85
	PV	1.3	485	8.0	0.45	71.8	2.9	
LS 160 LU	GV	11	975	26.2	0.73	82.9	5.5	110
	PV	1.8	485	5.5	0.51	66.6	2.4	
LS 180 LU	GV	15	975	33.4	0.76	85.4	6.0	165
	PV	2.5	485	10.4	0.46	75.2	2.8	
LS 200 L	GV	18.5	980	38.2	0.80	87.4	6.1	205
	PV	3	488	11.5	0.52	72.4	2.9	
LS 200 LU	GV	25	980	52.2	0.79	87.5	7.0	235
	PV	4.5	485	16.6	0.54	72.4	2.7	

1. GV : High speed.
2. PV : Low speed.

LS multi-speed closed three-phase asynchronous motors

Selection

**6-12
poles**
1000-500 min⁻¹

Use : centrifugal machines
1 winding (Dahlander) - PTO thermal protection -n/c
IP 55 - 50 Hz - Class F - ΔT 80 K - 400 V - S1



Type		Rated power at 50 Hz	IM 1001 PTO (IM B3)	Qty
		P_N kW	Code	
LS 90 L	GV ¹	0.75	MA9 076 M2	5
	PV ²	0.15		
LS 90 LU	GV	1.1	MA9 116 M2	5
	PV	0.18		
LS 100 L	GV	1.5	MA9 156 M2	2
	PV	0.25		
LS 112 MU	GV	2.2	MA9 226 M2	2
	PV	0.37		
LS 132 SM	GV	3	MA9 306 M2	2
	PV	0.55		
LS 132 M	GV	4	MA9 406 M2	2
	PV	0.65		
LS 132 MU	GV	5.5	MA9 556 M2	2
	PV	1		
LS 160 M	GV	7.5		-
	PV	1.3		
LS 160 LU	GV	11		-
	PV	1.8		
LS 180 LU	GV	15		-
	PV	2.5		
LS 200 L	GV	18.5		-
	PV	3		
LS 200 LU	GV	25		-
	PV	4.5		

1. GV : High speed.

2. PV : Low speed.

Selection example :

Speed :	1000-500 min ⁻¹ -6/12 poles
Power :	1.5/0.25 kW
Mounting and position :	IM 1001 (IM B3)
Mains supply voltage :	400 V

Designation :

6/12 P LS 100 L 1.5/0.25 kW IM 1001
(IM B3) - PTO - 400V

Code : MA9 156 M2

LS multi-speed closed three-phase asynchronous motors

Selection

General table of the multi-speed motors
Use : centrifugal machines
IP 55 - 50 Hz - Class F - Δ T 80 K - 400 V - S1

Type	2/4 Poles Dahlander	4/6 Poles PAM	4/6 Poles 2 windings	4/8 Poles Dahlander	6/12 Poles Dahlander
	P_N kW	P_N kW	P_N kW	P_N kW	P_N kW
LS 71 M	0.37 / 0.075	-	-	0.25 / 0.06	-
LS 71 M	0.55 / 0.11	-	-	0.37 / 0.07	-
LS 80 L	-	-	-	0.55 / 0.09	-
LS 80 L	1.1 / 0.25	0.75 / 0.25	0.7 / 0.2	0.75 / 0.12	-
LS 90 S	1.5 / 0.35	-	0.85 / 0.25	1.1 / 0.18	-
LS 90 SL	-	1.1 / 0.37	-	-	-
LS 90 L	2.2 / 0.6	1.5 / 0.55	1.4 / 0.5	1.5 / 0.25	0.75 / 0.15
LS 90 LU	-	-	-	-	1.1 / 0.18
LS 100 L	-	2.2 / 0.75	2.4 / 0.75	2.2 / 0.37	1.5 / 0.25
LS 100 L	3 / 0.8	3 / 1.1	-	3 / 0.55	-
LS 112 MG	-	-	3.4 / 1.1	-	-
LS 112 MU	4.5 / 1.3	4 / 1.5	-	4 / 0.75	2.2 / 0.37
LS 132 SM	6 / 1.6	5.5 / 1.8	4 / 1.2	5.5 / 1.1	3 / 0.55
LS 132 M	9 / 2.5	7.5 / 2.5	6.3 / 1.9	7.5 / 1.5	4 / 0.65
LS 132 MU	-	-	-	-	5.5 / 1
LS 160 M	-	-	9 / 3	9 / 2.2	7.5 / 1.3
LS 160 M	13.5 / 3.3	-	11 / 3.7	11 / 2.8	-
LS 160 L	19 / 4.5	-	13 / 4.3	13 / 3.3	-
LS 160 L	-	-	-	15 / 3.8	-
LS 160 LU	-	-	15 / 5	-	11 / 1.8
LS 180 L	-	-	18.5 / 6.5	18.5 / 4.8	-
LS 180 LU	24 / 8	-	22 / 7.5	22 / 5.3	15 / 2.5
LS 200 LT	-	-	-	24 / 6	-
LS 200 L	31 / 11	-	25 / 8.5	30 / 7	18.5 / 3
LS 200 LU	40 / 14	-	30 / 9	-	25 / 4.5
LS 225 SR	-	-	34 / 11	37 / 8.5	-
LS 225 MG	50 / 17	-	-	45 / 11	-
LS 250 ME	59 / 20	-	42 / 14	55 / 14	-
LS 250 ME	70 / 24	-	-	-	-
LS 250 MF	-	-	52 / 19	65 / 16	-
LS 280 SD	-	-	-	75 / 19	-
LS 280 SK	-	-	75 / 28	-	-
LS 280 MD	85 / 30	-	-	-	-
LS 280 MK	-	-	90 / 33	90 / 23	-
LS 315 SP	-	-	110 / 37	110 / 29	-
LS 315 MP	-	-	-	132 / 35	-
LS 315 MR	100 / 35	-	132 / 44	160 / 42	-

The specific electrical characteristics available on request.

LS multi-speed closed three-phase asynchronous motors

Selection

General table of the multi-speed motors
General use
IP 55 - 50 Hz - Class F - Δ T 80 K - 400 V - S1



Type	2/4 Poles Dahlander	2/4 Poles 2 windings	2/6 Poles 2 windings	2/8 Poles 2 windings	4/6 Poles 2 windings	4/8 Poles Dahlander
	P_N kW	P_N kW	P_N kW	P_N kW	P_N kW	P_N kW
LS 71 M	-	-	-	0.18 / 0.045	0.12 / 0.09	-
LS 71 M	-	-	-	0.25 / 0.06	0.18 / 0.12	-
LS 71 M	0.37 / 0.25	-	-	0.37 / 0.09	-	0.25 / 0.12
LS 71 M	0.55 / 0.37	-	-	0.55 / 0.18	-	0.37 / 0.18
LS 71 L	-	0.37 / 0.09	0.25 / 0.08	-	-	-
LS 80 L	1.1 / 0.75	-	0.55 / 0.18	0.55 / 0.12	0.45 / 0.3	0.55 / 0.22
LS 90 S	1.5 / 1.1	0.75 / 0.37	0.75 / 0.25	0.75 / 0.18	0.7 / 0.45	0.75 / 0.4
LS 90 L	2.2 / 1.5	-	1.5 / 0.5	-	1.1 / 0.75	1.2 / 0.6
LS 90 LU	-	-	-	1.5 / 0.37	-	-
LS 100 L	3 / 2.6	2.2 / 1.1	2.2 / 0.75	2.2 / 0.55	1.8 / 1.2	1.7 / 0.9
LS 112 MG	4.5 / 3.7	3.3 / 1.7	-	3 / 0.75	2.8 / 1.8	2.8 / 1.5
LS 112 MU	5.5 / 4	-	3 / 1	-	3 / 2	3 / 1.8
LS 132 SM	6 / 4.5	3.7 / 1.85	4 / 1.3	4 / 1	4 / 2.8	5 / 2.85
LS 132 M	9 / 6.9	6 / 3	6.5 / 2.2	5.5 / 1.6	5.5 / 3.7	7.6 / 4
LS 160 M	13.5 / 10.3	-	-	-	5.9 / 3.9	8.1 / 4.5
LS 160 L	18.5 / 14	-	-	-	8.1 / 5.2	11 / 6
LS 180 LR	21 / 16	-	-	-	12 / 7.7	-
LS 180 L	-	-	-	-	14 / 9	14.5 / 9
LS 180 LU	25 / 19	-	-	-	-	16.5 / 11
LS 200 LT	-	-	-	-	-	18.5 / 12.5
LS 200 L	33 / 25	-	-	-	17 / 11.5	-
LS 200 L	-	-	-	-	21 / 14	22 / 15
LS 225 MR	37 / 26.5	-	-	-	24 / 16	-
LS 225 MG	44 / 33	-	-	-	28 / 18.5	28 / 19.5
LS 250 ME	52 / 40.5	-	-	-	33 / 22	-
LS 250 MF	-	-	-	-	39 / 22.5	40 / 26
LS 250 MF	-	-	-	-	45 / 30	50 / 33
LS 280 SC	62.5 / 51.5	-	-	-	-	-
LS 280 SD	-	-	-	-	-	55 / 37
LS 280 MD	81 / 66	-	-	-	-	-
LS 280 MK	-	-	-	-	55 / 40	66 / 45
LS 315 SP	-	-	-	-	62.5 / 42	80 / 50
LS 315 MR	95 / 78	-	-	-	78 / 51.5	95 / 60

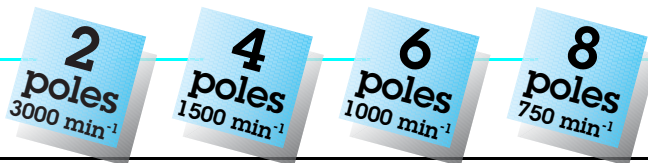
The specific electrical characteristics available on request.

LS

totally enclosed three-phase asynchronous motors

Options

A



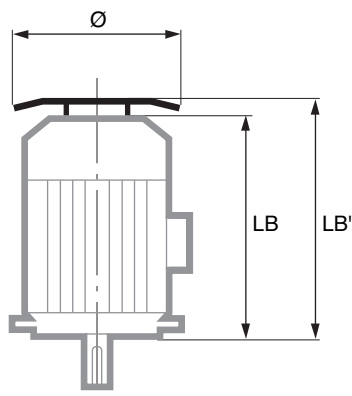
Type	Operating position (draining holes at lowest point)						Ventilation cover		
	IM V1 ¹ IM 3011	IM V3 IM 3031	IM V5 IM 1011	IM V6 IM 1031	IM V18 ¹ IM 3611	IM V19 IM 3631	Stell sheet	Drip cover	Anti-filling
	Code	Code	Code	Code	Code	Code	Code	Code	Code
LS 56	MAV 56 025	MAV 56 026	MAV 56 023	MAV 56 035	MAV 56 048	MAV 56 056	MATE 1011	MATP 1011	
LS 63	MAV 63 001	MAV 63 013	MAV 63 024	MAV 63 036	MAV 63 049	MAV 63 057	MATE 1012	MATP 1012	
LS 71	MAV 71 002	MAV 71 014	MAV 71 024	MAV 71 037	MAV 71 050	MAV 71 058	MATE 1013	MATP 1013	
LS 80	MAV 80 003	MAV 80 015	MAV 80 025	MAV 80 038	MAV 80 051	MAV 80 059	MATE 1014	MATP 1014	MA00 0247
LS 90	MAV 90 004	MAV 90 016	MAV 90 026	MAV 90 039	MAV 90 052	MAV 90 060	MATE 1015	MATP 1015	MA00 0248
LS 100	MAV 100 05	MAV 100 17	MAV 100 27	MAV 100 40	MAV 100 53	MAV 100 61	MATE 1016	MATP 1016	MA00 0249
LS 112	MAV 112 06	MAV 112 18	MAV 112 28	MAV 112 41	MAV 112 54	MAV 112 62	MATE 1017	MATP 1017	MA00 0250
LS 132	MAV 132 07	MAV 132 19	MAV 132 29	MAV 132 42	MAV 132 55	MAV 132 63	Standard	MATP 1018	MA00 0251
LS 160 M	MAV 160 08	MAV 160 20	MAV 160 30	MAV 160 43			Standard	MATP 1019	
LS 160 L	MAV 160 08	MAV 160 20	MAV 160 30	MAV 160 43			Standard	MATP 1019	
LS 160 MP	MAV 160 08	MAV 160 20	MAV 160 30	MAV 160 43			Standard	MATP 1019	
LS 160 LR	MAV 160 08	MAV 160 20	MAV 160 30	MAV 160 43			Standard	MATP 1019	
LS 180	MAV 180 11	MAV 180 12	MAV 180 64	MAV 180 65			Standard	MATP 1024	
LS 200	MAV 200 09	MAV 200 21	MAV 200 31	MAV 200 44			Standard	MATP 1020	
LS 225	MAV 225 10	MAV 225 22	MAV 225 32	MAV 225 45			Standard	MATP 1021	
LS 250			MAV 250 33	MAV 250 46			Standard	MATP 1022	
LS 280			MAV 280 34	MAV 280 47			Standard	MATP 1023	
LS 315			MA00 0244	MA00 0245			Standard	MA00 0246	

1. Motors 2, 4, 6 and 8 poles on white background IM B5 / IM V1 or IM B14 / IM V18.

Drip cover for operation in vertical position, shaft facing down

Dimensions in millimetres

Type	LB'	ø
80	LB + 20	145
90	LB + 20	185
100	LB + 20	185
112 M	LB + 20	185
112 MG	LB + 25	210
132 S	LB + 25	210
132 SM et M	LB + 30	240
160 MP/LR	LB + 30	240
160 M/L/LU	LB + 36.5	265
180 MT/LR	LB + 36.5	265
180 L/LU	LB + 36.5	305
200 LT	LB + 36.5	305
200 L/LU	LB + 36.5	350
225 ST/MT/MR	LB + 36.5	350
225 MG	LB + 55	420
250 MZ	LB + 36.5	350
250 ME/MF	LB + 55	420
280 SC/SD/MC/MD	LB + 55	420
280 SK/MK	LB + 76.5	505
315 SP/MP/MR	LB + 76.5	505

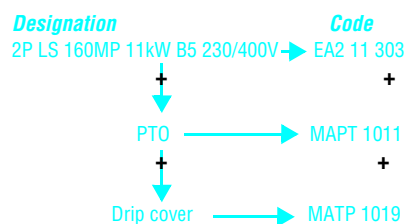


Use guide :

- STEP 1 : Select the required basic motor according to the selection grids of the previous pages.
- STEP 2 : Select the additional required option or options and add them to the basic designation.

Codification example :

Motor LS tri 11 kW 3000 min⁻¹ B5 standard flange 230/400 V with PTO and drip cover.



LS

totally enclosed three-phase asynchronous motors

Options

2
poles
3000 min⁻¹

4
poles
1500 min⁻¹

6
poles
1000 min⁻¹

8
poles
750 min⁻¹

A

Type	Terminal box equipment				Cable output ²	Forced ventilation
	Switch (with aluminium terminal box)	Cable glands		N°		
		Brass (with aluminium terminal box) ¹	Smaller than standard			
Code	Code	Code	Code	Code	Code	
LS 56	MAIT 1011					
LS 63	MAIT 1012					
LS 71	MAIT 1013					
LS 80		MAPE 1014	MAPE 1027	13	MASPC 104	MVA 00 068
LS 90		MAPE 1015	MAPE 1028	13	MASPC 105	MVA 00 001
LS 100		MAPE 1016	MAPE 1029	13	MASPC 106	MVA 00 063
LS 112 M		MAPE 1017	MAPE 1030	13	MASPC 107	MVA 00 063
LS 112 MG		MAPE 1017	MAPE 1030	13	MASPC 107	MVA 00 002
LS 132 S		MAPE 1018	MAPE 1031	13	MASPC 108	MVA 00 002
LS 132 M		MAPE 1036	MAPE 1038	16	MASPC 114	MVA 00 064
LS 160 L		MAPE 1019	MAPE 1032	16	MASPC 109	
LS 160 M		MAPE 1019	MAPE 1032	16	MASPC 109	
LS 160 LR		MAPE 1019	MAPE 1032	16	MASPC 109	
LS 160 MP		MAPE 1019	MAPE 1032	16	MASPC 109	
LS 180		MAPE 1037	MAPE 1039	16	MASPC 115	
LS 200		MAPE 1020	MAPE 1033	21	MASPC 110	
LS 225		MAPE 1021	MAPE 1034	29	MASPC 111	
LS 250		MAPE 1022	MAPE 1035	36	MASPC 112	
LS 280		MAPE 1023	MAPE 1036	36	MASPC 113	
LS 315		MA00 0241	MA00 0242	36	MASPC 116	

1. Aluminium terminal box p. A2.19

2. Cable length : 1 metre. Conductor number : 6 + 1 (section according to the power and to the mains supply voltage). Cable connected to the board. Standard terminal box.

LS

totally enclosed three-phase asynchronous motors

Options




A

2
poles
3000 min⁻¹

4
poles
1500 min⁻¹

6
poles
1000 min⁻¹

8
poles
750 min⁻¹

Type	PTO Thermal protection opening (n/c)	PTF Thermal protection closing (n/o)	CTP Positive temperature coefficient thermistors probes	Other options			
				Aluminium terminal box	Stainless steel plate	Roller bearings	Aluminium fan
	Code	Code	Code	Code	Code	Code	Code
LS 56	MAPT 1011			MABBA 101	MAPLA 101		
LS 63	MAPT 1011			MABBA 102	MAPLA 102		
LS 71	MAPT 1011			MABBA 103	MAPLA 103		
LS 80	MAPT 1011	MAPT 101		MABBA 104	MAPLA 104		MAO 002 90
LS 90	MAPT 1011	MAPT 101		MABBA 105	MAPLA 105		MAO 003 00
LS 100	MAPT 1011	MAPT 101	MACTP 101	MABBA 106	MAPLA 106		MAO 003 01
LS 112 M	MAPT 1011	MAPT 101	MACTP 101	MABBA 107	MAPLA 107		MAO 003 02
LS 112 MG	MAPT 1011	MAPT 101	MACTP 101	MABBA 107	MAPLA 107		MAO 002 94
LS 132 S	MAPT 1011	MAPT 101	MACTP 101	MABBA 108	MAPLA 108		MAO 002 95
LS 132 M	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 108		MAO 002 96
LS 160 L	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 109	MARR 1011	
LS 160 M	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 109	MARR 1011	
LS 160 LR	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 109		
LS 160 MP	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 109		
LS 180	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 114	MARR 1016	
LS 200	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 110	MARR 1012	
LS 225	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 111	MARR 1013	
LS 250	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 112	MARR 1014	
LS 280	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 113	MARR 1015	
LS 315	MAPT 1011	MAPT 101	MACTP 101	Standard	MAPLA 115	MARR 1017	

LS totally enclosed three-phase asynchronous motors

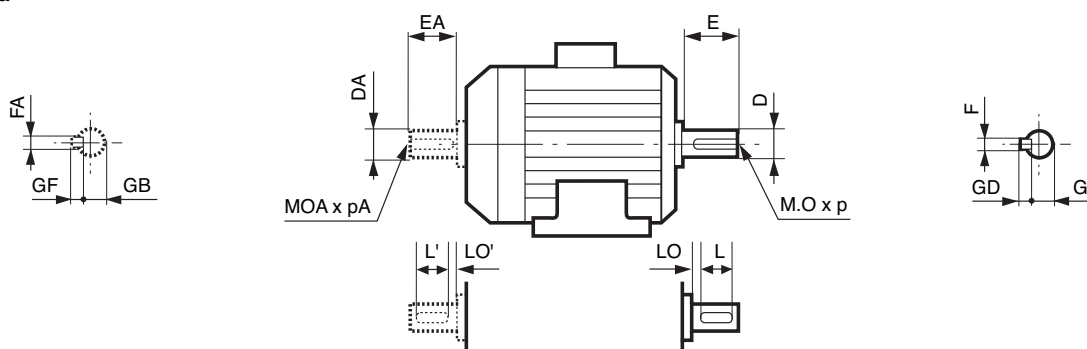
Dimensions

LS totally enclosed three-phase asynchronous motors dimensions LS - IP 55 Cage rotor

Dimensions en millimetres



– shaft end



Type	Main shaft ends																			
	4, 6 and 8 poles										2 poles and 2/4 poles									
	F	GD	D	G	E	O	p	L	LO	D	F	GD	D	G	E	O	p	L	LO	D
LS 56 M	3	3	9j6	7	20	4	10	16	3	9	3	3	9j6	7	20	4	10	16	3	9
LS 63 M	4	4	11j6	8.5	23	4	10	18	3.5	11	4	4	11j6	8.5	23	4	10	18	3.5	11
LS 71 L/M	5	5	14j6	11	30	5	15	25	3.5	14	5	5	14j6	11	30	5	15	25	3.5	14
LS 80 L	6	6	19j6	15.5	40	6	16	30	6	19	6	6	19j6	15.5	40	6	16	30	6	19
LS 90 S/L/SL/LU	8	7	24j6	20	50	8	19	40	6	24	8	7	24j6	20	50	8	19	40	6	24
LS 100 L	8	7	28j6	24	60	10	22	50	6	28	8	7	28j6	24	60	10	22	50	6	28
LS112 M/MG/MU	8	7	28j6	24	60	10	22	50	6	28	8	7	28j6	24	60	10	22	50	6	28
LS 132 S/M/MU/SM	10	8	38k6	33	80	12	28	63	10	38	10	8	38k6	33	80	12	28	63	10	38
LS 160 M/L/MP/LR/LU	12	8	42k6	37	110	16	36	100	6	42	12	8	42k6	37	110	16	36	100	6	42
LS 180 MT/LR/LU	14	9	48k6	42.5	110	16	36	97	13	48	14	9	48k6	42.5	110	16	36	97	13	48
LS 200 LT/LU	16	10	55m6	49	110	20	42	97	13	55	16	10	55m6	49	110	20	42	97	13	55
LS 225 ST/MR/MK/SR/MT/MG	18	11	60m6	53	140	20	42	126	14	60	18	11	60m6	53	140	20	42	126	14	60
LS 250 ME/MF/MZ	18	11	65m6	58	140	20	42	126	14	65	18	11	65m6	58	140	20	42	126	14	65
LS 280 MK/SK/MC/SC/SD/MD	20	12	75m6	67.5	140	20	42	125	15	75	20	12	75m6	67.5	140	20	42	126	14	65
LS 315 MP/MR/SP	22	14	80m6	71	170	20	42	140	15	80	18	11	65m6	58	140	20	42	126	14	65

Type	Secondary shaft ends																			
	4, 6 and 8 poles										2 poles and 2/4 poles									
	FA	GF	DA	GB	EA	OA	pA	L'	LO'	D	FA	GF	DA	GB	EA	OA	pA	L'	LO'	D
LS 56 M	3	3	9j6	7	20	4	10	16	3	9	3	3	9j6	7	20	4	10	16	3	9
LS 63 M	4	4	11j6	8.5	23	4	10	18	3.5	11	4	4	11j6	8.5	23	4	10	18	3.5	11
LS 71 L/M	5	5	14j6	11	30	5	15	25	3.5	14	5	5	14j6	11	30	5	15	25	3.5	14
LS 80 L	5	5	14j6	11	30	5	15	30	6	19	5	5	14j6	11	30	5	15	30	6	19
LS 90 S/L/SL/LU	6	6	19j6	15.5	40	6	16	40	6	24	6	6	19j6	15.5	40	6	16	40	6	24
LS 100 L	8	7	24j6	20	50	8	19	50	6	28	8	7	24j6	20	50	8	19	50	6	28
LS112 M/MG/MU	8	7	24j6	20	50	8	19	50	6	28	8	7	24j6	20	50	8	19	50	6	28
LS 132 S/M/MU/SM	8	7	28j6	24	60	10	22	63	10	38	8	7	28j6	24	60	10	22	63	10	38
LS 160 MP/LR	10	8	38k6	33	80	12	28	63	10	42	10	8	38k6	33	80	12	28	63	10	42
LS 160 M/L/LU	12	8	42k6	37	110	16	36	100	6	42	12	8	42k6	37	110	16	36	100	6	42
LS 180 MT/LR/LU	14	9	48k6	42.5	110	16	36	97	13	48	14	9	48k6	42.5	110	16	36	97	13	48
LS 200 LT/LU	16	10	55m6	49	110	20	42	97	13	55	16	10	55m6	49	110	20	42	97	13	55
LS 225 ST/MR/MK/SR/MT/MG	18	11	60m6	53	140	20	42	126	14	60	18	11	60m6	53	140	20	42	126	14	60
LS 250 ME/MF/MZ	18	11	65m6	58	140	20	42	126	14	65	18	11	65m6	58	140	20	42	126	14	65
LS 280 MK/SK/MC/SC/SD/MD	18	11	75m6	58	140	20	42	125	15	75	18	11	65m6	58	140	20	42	126	14	65
LS 315 MP/MR/SP	22	14	80m6	71	170	20	42	140	30	80	18	11	65m6	58	140	20	42	126	14	65

LS totally enclosed three-phase asynchronous motors

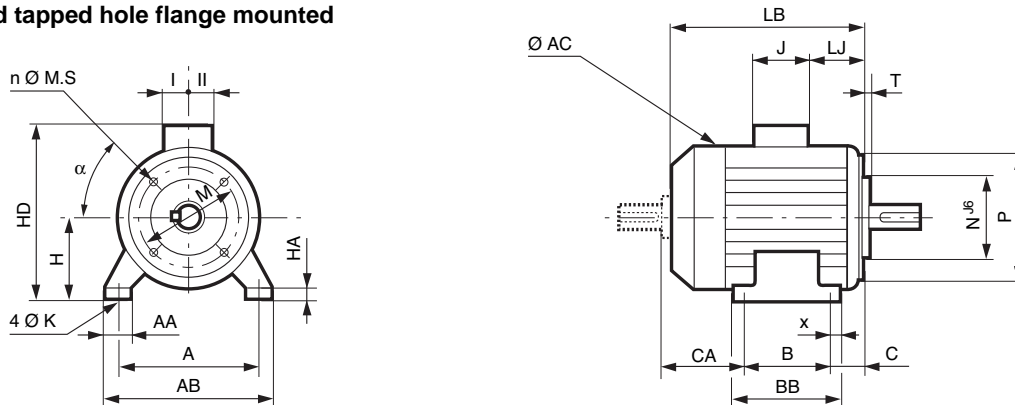
Dimensions

LS totally enclosed three-phase asynchronous motors dimensions - IP 55

Cage rotor

Dimensions en millimetres

– (FT) foot and tapped hole flange mounted



Main dimensions

Type	A	AB	B	BB	C	x	AA	K	HA	H	AC	HD	LB	HJ	LJ	J	I	II	Sym.
LS 56 M	90	104	71	87	36	8	24	6	7	56	110	140	156	84	16	86	43	43	FT 65
LS 63 M	100	115	80	96	40	8	26	7	9	63	124	152	172	89	26	86	43	43	FT 75
LS 71 M	112	126	90	106	45	7.5	24	7	9	71	140	170	185	99	26	86	43	43	FT 85
LS 71 L	112	126	90	106	45	7.5	24	7	9	71	140	170	193	99	26	86	43	43	FT 85
LS 80 L	125	157	100	120	50	10	29	9	10	80	170	203	215	123	26	86	43	43	FT 100
LS 90 S	140	172	100	120	56	10	37	10	11	90	190	223	218	133	26	86	43	43	FT 115
LS 90 L	140	172	125	162	56	28	37	10	11	90	190	223	245	133	26	86	43	43	FT 115
LS 90 SL	140	172	125	162	56	28	37	10	11	90	190	223	245	133	26	86	43	43	FT 115
LS 90 LU	140	172	125	162	56	28	37	10	11	90	190	223	265	133	26	86	43	43	FT 115
LS 100 L	160	196	140	165	63	12	40	12	13	100	200	238	290	138	26	86	43	43	FT 130
LS 112 M	190	220	140	165	70	12	45	12	14	112	200	250	290	138	26	86	43	43	FT 130
LS 112 MG	190	220	140	165	70	12	52	12	14	112	235	260	315	148	36	86	43	43	FT 130
LS 112 MU	190	220	140	165	70	12	52	12	14	112	235	260	334	148	36	86	43	43	FT 130
LS 132 S	216	250	140	170	89	16	50	12	15	132	235	280	350	175	53	86	43	43	FT 215
LS 132 SM	216	250	178	208	89	16	59	12	18	132	280	307	387	175	25	110	57	73	FT 215
LS 132 M	216	250	178	208	89	16	59	12	18	132	280	307	387	148	25	110	57	73	FT 215
LS 132 MU	216	250	178	208	89	16	59	12	18	132	280	307	410	175	25	110	57	73	FT 215
LS 160 MP	254	294	210	294	108	20	64	14.5	25	160	280	368	468	235	44	134	92	63	FT 265
LS 160 LR	254	294	254	316	121	20	79	14.5	28	180	316	428	520	248	45	205	100	95	FT 265

CA dimension and shaft ends dimensions identical to those of the foot mounted motors.

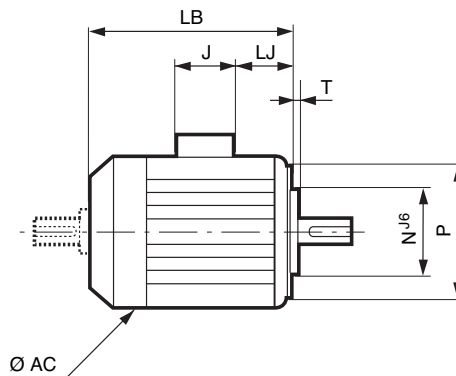
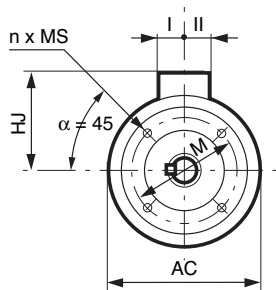
LS totally enclosed three-phase asynchronous motors

Dimensions

LS totally enclosed three-phase asynchronous motors dimensions - IP 55 Cage rotor

Dimensions en millimetres

– (FT) tapped hole flange mounted



IEC symbol	Flange dimensions					
	M	N	P	T	n	MS
FT 65	65	50	80	2.5	4	M5
FT 75	75	60	90	2.5	4	M5
FT 85	85	70	105	2.5	4	M6
FT 85	85	70	105	2.5	4	M6
FT 100	100	80	120	3	4	M6
FT 115	115	95	140	3	4	M8
FT 115	115	95	140	3	4	M8
FT 115	115	95	140	3	4	M8
FT 115	115	95	140	3	4	M8
FT 130	130	110	160	3.5	4	M8
FT 130	130	110	160	3.5	4	M8
FT 130	130	110	160	3.5	4	M8
FT 215	215	180	250	4	4	M12
FT 215	215	180	250	4	4	M12
FT 215	215	180	250	4	4	M12
FT 215	215	180	250	4	4	M12
FT 265	265	230	300	4	4	M12
FT 265	265	230	300	4	4	M12

Type	Main dimensions						
	AC	LB	HJ	LJ	J	I	II
LS 56 M	110	156	84	16	86	43	43
LS 63 M	124	172	89	26	86	43	43
LS 71 M	140	185	99	26	86	43	43
LS 71 L	140	193	99	26	86	43	43
LS 80 L	170	215	123	26	86	43	43
LS 90 S	190	218	133	26	86	43	43
LS 90 L	190	245	133	26	86	43	43
LS 90 SL	190	245	133	26	86	43	43
LS 90 LU	190	265	133	26	86	43	43
LS 100 L	200	290	138	26	86	43	43
LS 112 M	200	290	138	26	86	43	43
LS 112 MG	235	315	148	36	86	43	43
LS 112 MU	235	334	148	36	86	43	43
LS 132 S	235	350	148	53	86	43	43
LS 132 SM	280	387	175	25	110	57	73
LS 132 M	280	387	175	25	110	57	73
LS 132 MU	280	410	175	25	110	57	73
LSP 160 MP	280	468	208	44	134	92	63
LS 160 LR	280	495	208	44	134	92	63

Shaft end dimensions identical to those of the foot mounted motors.