

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

General information



Closed 3-phase asynchronous motors, LSMV series, according to IEC 60034, 60072.

LSMV motor is the result of Leroy-Somer's experience with speed variation and progress in performance of new electronic controllers.

- Power from 0.25 kW to 132 kW. Frame size from 71 to 315 mm. 2, 4 and 6 poles. 3-phase supply 380/415 V, IP 55 protection. LSMV is at the base of a large motor range for speed variation.

Leroy-Somer can also provide FLS MV motors with cast iron housing, FLSC MV motors with reinforced mechanical protection and PLS MV motors with aluminium housing and IP 23 protection.

Other existant range : FLS MV.

Powers : ≥ 160 kW.

Frame sizes from 315 to 450 mm.

Motor with cast iron housing (consult us).

The association of MV range motors and of DIGIDRIVE, PROXIDRIVE or UNIDRIVE SP electronic controllers, gives the user the **guarantee of performances** in torque and speed.

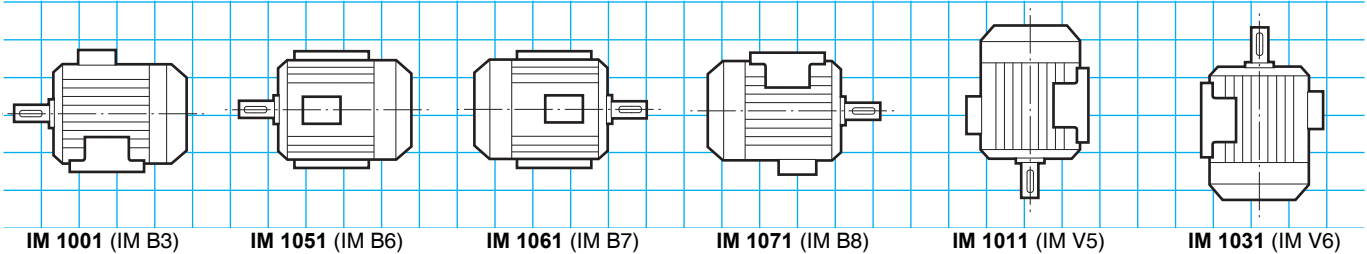
Description of LSMV 3-phase motors

Component	Material	Remarks
Finned housing	Aluminium alloy	<ul style="list-style-type: none"> - with bolt-on or cast foot, or without foot - pressure die casting for frame size ≤ 180 - gravity casting for frame size ≥ 200 <ul style="list-style-type: none"> • 4 or 6 mounting holes for the foot housings • lifting rings frame size ≥ 160, option in 132 and 112 - optional earth terminal
Stator	<p>Isolated magnetic cover with low carbon rate</p> <p>Electrolytic copper</p>	<ul style="list-style-type: none"> - the low carbon content guarantees long term stability of the characteristics - assembled lamination stack - semi-enclosed slots - magnetic circuit which is based on experience acquired in frequency variation - impregnation allowing resistance to violent voltage variations determined by high switching frequencies of IGBT transistor drives in accordance to IEC 34-17 - insulation system class F - thermal protection provided by 3 probes CTP (1 per phase)
Rotor	<p>Isolated magnetic cover with low carbon rate</p> <p>Aluminium</p>	<ul style="list-style-type: none"> - inclined slots - squirrel cage pressure die cast in aluminium (or alloy for special applications) - mounted on the shaft by heat shrinking and keyed for hoisting applications - dynamically balanced rotor class S or R depending to the frame size
Shaft	Steel	
Flange bearings	Cast iron	<ul style="list-style-type: none"> - frame size from 80 to 315
Bearings and lubrication		<ul style="list-style-type: none"> - ball bearings set C3 - rear preloaded bearings - protected types lubricated for life up to 180 inclusive - open or semi-protected types from 200 - open bearings from 225, regreasable
Labyrinth seals Lipseals	<p>Technopolymer or steel</p> <p>Synthetic rubber</p>	<ul style="list-style-type: none"> - seal or front deflector for all flanged motors - seal, deflector or heat seal for feet motors
Fan	Composite material	<ul style="list-style-type: none"> - 2 directions of rotation : straight blades
Fan cover	Sheet steel	<ul style="list-style-type: none"> - on request, fitted with a drip cover for operation in vertical position, shaft facing down
Terminal box	Aluminium alloy	<ul style="list-style-type: none"> - fitted with a 6 steel stud standard terminal board (brass as an optional extra) - terminal box delivered fitted with cable gland - 1 earth terminal in all terminal boxes

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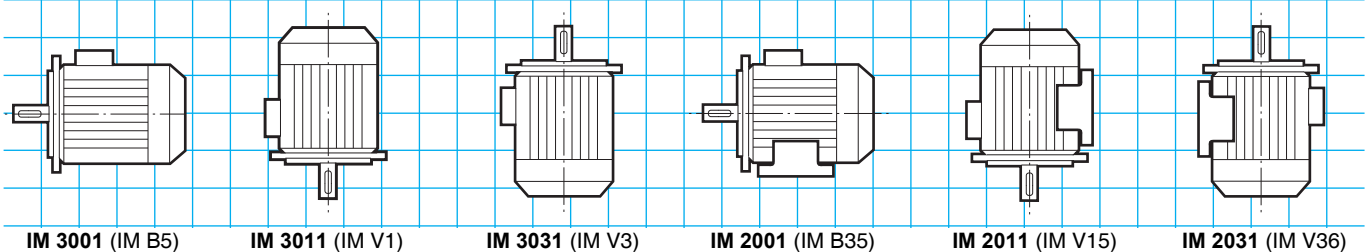
Mounting positions

Foot mounted motors



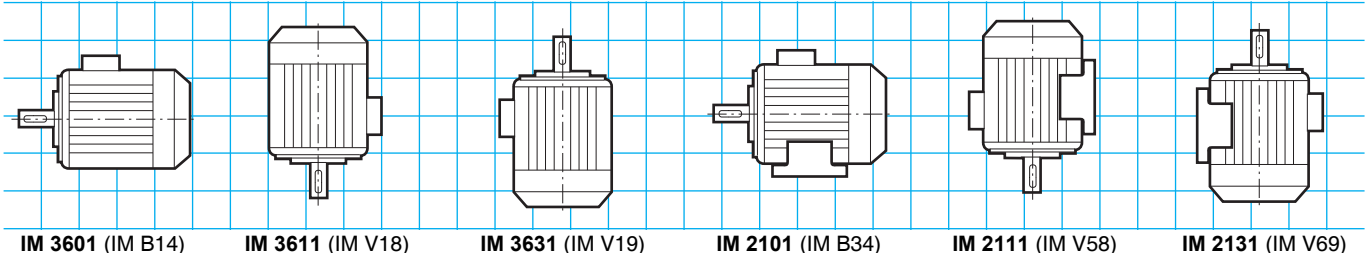
(FF) plain hole flange mounted motors

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



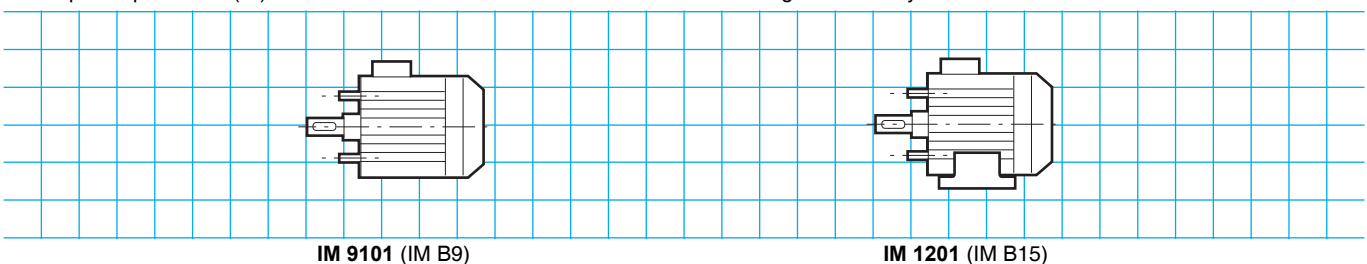
(FT) tapped hole flange mounted motors

• Possible positions up to 132 frame size included

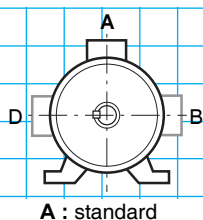


Motors without frontal bearing

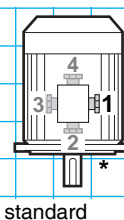
Note : plated protection (IP) of motors IM B9 and IM B15 is ensured when mounting the motor by the customer.



Position of the terminal box in relation to the motor shaft end



Position of the cable gland in relation to the motor shaft end



* Position 2 not recommended and not feasible
on plain holes flange standard motor (FF)

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Adaptation possibilities

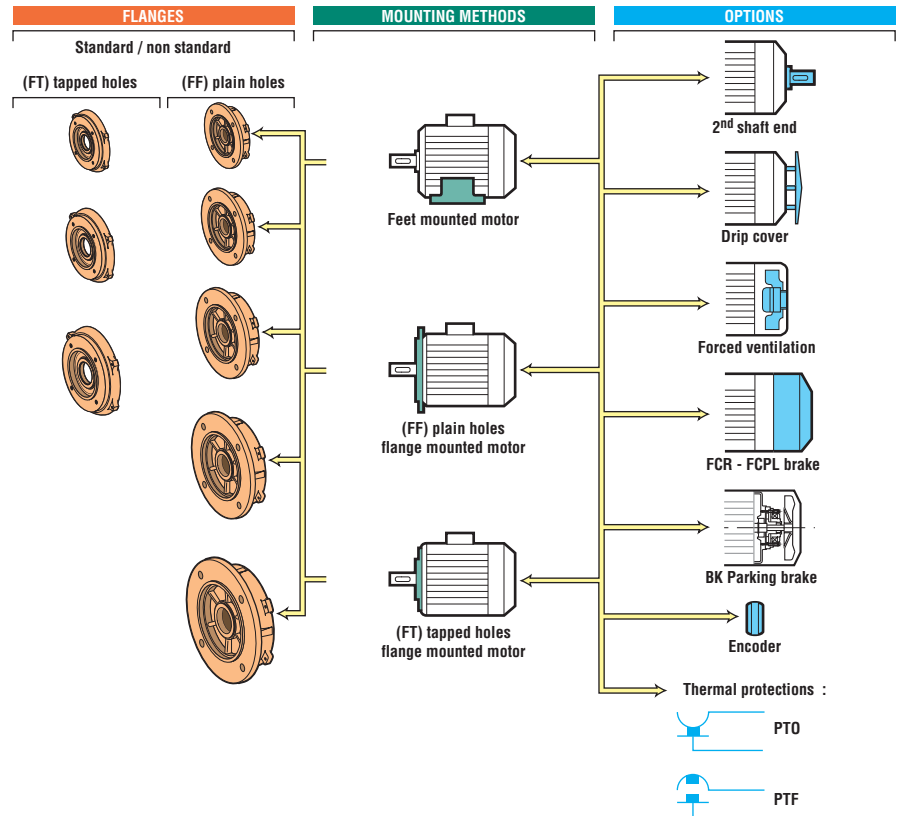
Leroy-Somer offers, for use with LSMV enclosed three-phase asynchronous motors, many options which meet the needs of highly diverse applications. They are described below and in the chapters relating to the gearboxes and to variable speed. For other variants or any special adaptation, consult the technical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

The LSMV 3-phase asynchronous motors may be associated to :

- gearboxes
- electronic variable speed drive

The options :

- drip cover
- forced ventilation
- second shaft end
- encoder
- rest control brakes : FCR brake, FCPL brake, BK parking brake
- thermal protections
- non standard flanges



Designation / Codification

4P 1500 min ⁻¹	LSMV	100	L	2.2 kW	IM 1001 (IM B3)	230 / 400 V	50 Hz	IP 55
Speed polarity	Motor type	IEC 60072-1 frame size	Housing designation	Rated power	IEC 60034-7 mounting position	Power supply voltage	Power supply frequency	IEC 60034-5 protection

Codification example :

LSMV motor, 1500 min⁻¹,
2.2 kW IM 1001 (IM B3), 230/400 V

Designation

4P LSMV 100 L 2.2 kW
IM 1001 (IM B3) 230/400 V

Code

MM4 22 201

The table above is an example.

It allows 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.

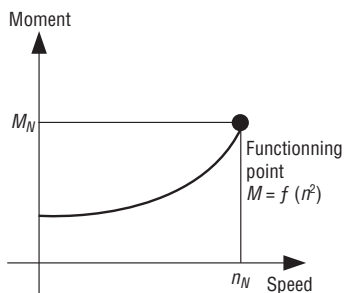
Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

CHOICE OF MOTOR TYPE AND DRIVE

The integration of the speed variation in a kinematics chain leads to certain constraints divided in two categories :

- needs to application
- example : centrifugal machines



- imperatives due to the association motor / electronic drive : noise, harmonic presence, etc.

LEROY-SOMER proposes :

• LS standard range :

- motors according to IEC standards
- IP 55
- insulation class F
- thermal reserve above 20°C
- balancing class N

Electrical and mechanical construction of the motors respond perfectly to standard applications : ventilation, pump, etc.

• LSMV range :

- motors according to IEC standards
- IP 55
- insulation class F
- improved thermal reserve with increased overtorque capacity
- balancing : class S for frame size ≤ 132 , class R for frame size ≥ 160

- protection thermal probes (CTP)
- terminal box in aluminium
- metal ventilation cover

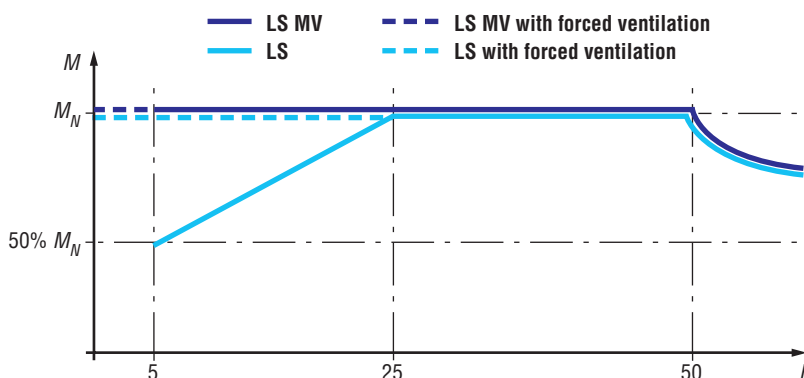
Thanks to a particular conception of the active magnetic side, these motors can responds to most restricting applications : low speed rated torque, even zero.

• adapted motors construction at very high speed :

From a drive adapted tuning with constant U/F , these motors can give a proportional power to the speed.

These motors make the objet of particular offers.

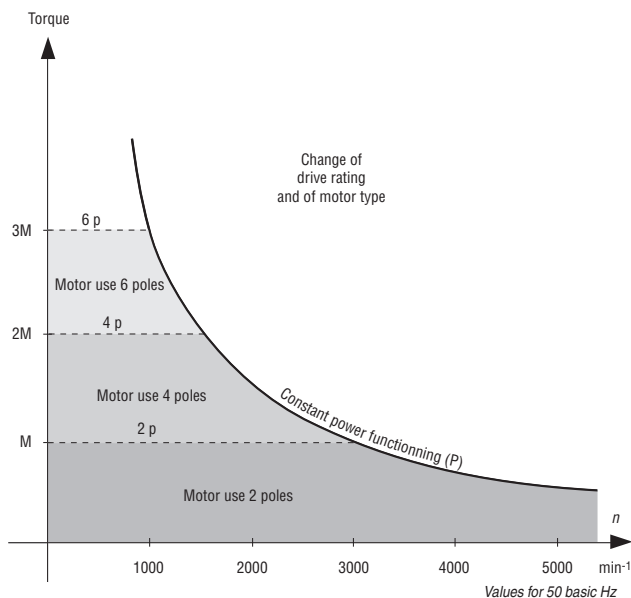
Features thermal torque / speed of LS and LSMV ranges



CHOICE OF POLARITY

Polarity is one of the main criteria. In fact, as shown in the graph below, the sharing-out of the torques differs depending on the polarity of the used motor. Thus, for use only in low speed, choose a 6 poles motor.

The opposite, for a functioning at high speed 2 poles motor will be selected.



CHOICE OF OPTIONS

Depending to the speed applications and controllers, many accessories are necessary. :

Forced ventilation :

- for operation in low speed ($< n_N/2^*$ for LS motor and $< n_N/10^*$ for LSMV) in continuous duty,
- for operation in high speed (particular study).

Encoder :

- for operation on drive with flow vectorial control,
- for lower speeds $n_N/10^*$,
- for a speed precision required necessary for some of controls.

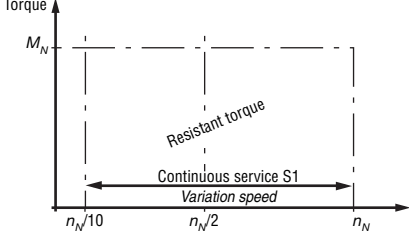
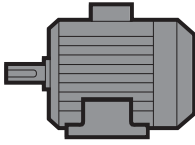
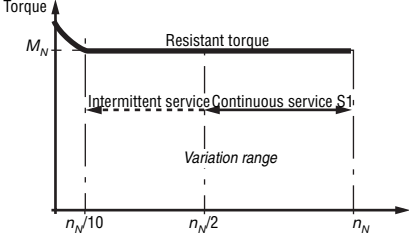
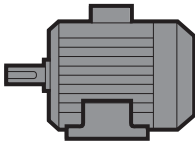
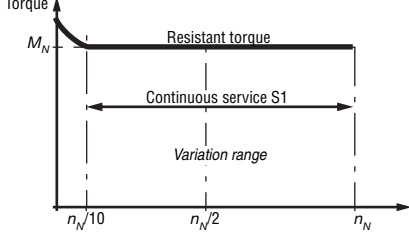
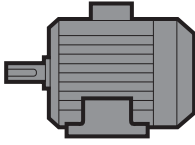
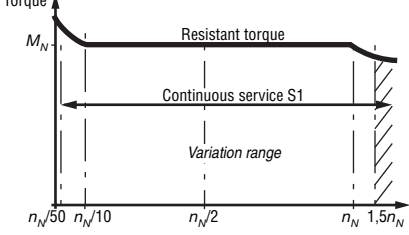
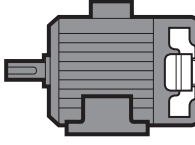
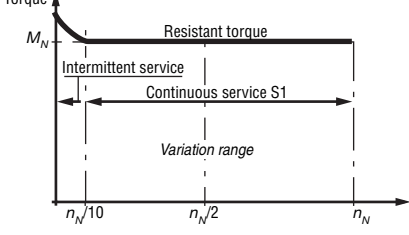
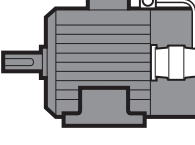
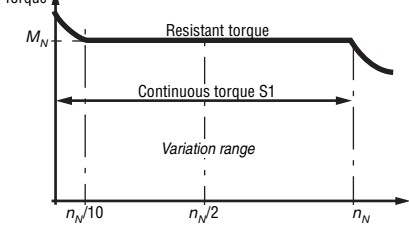
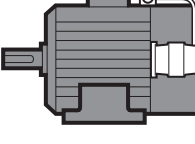
Brake :

Brake	Frame size
Type BK	80 to 132
Type FCR	80 to 132
Type FCPL	160 to 250

* n_N = Rated speed

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

<p>Centrifugal use or quadratic resistant torque</p>	 <p>n_N = rated speed</p> <p>Use on resistant torques depending on the speed for $f < 50$ Hz</p>	 <p>LS motor ≤ 22 kW Derated motor > 30 kW</p>
<p>General use or constant resistant torque</p>	 <p>Use on a speed range from 25 to 50 Hz (1 to 2) in continuous service (S1)</p>	 <p>LS motor ≤ 22 kW Derated motor > 30 kW</p>
	 <p>Use on a speed range from 5 to 50 Hz (1 to 10) in continuous service (S1)</p>	 <p>LSMV motor</p>
	 <p>Use on the extreme speed ranges : < 5 Hz and > 70 Hz</p>	 <p>LSMV motor with forced ventilation</p>
	 <p>Use : - from 0 to 50 Hz with a range of 0 to 5 Hz in intermittent service - with great speed and torque dynamics accuracy</p>	 <p>LSMV motor with encoder</p>
	 <p>Use : - from 0 to 50 Hz with a range from 0 to 5 Hz in continuous service - with great speed and torque dynamics accuracy</p>	 <p>LSMV motor with encoder and forced ventilation</p>

* This guide is general. Performances of the variable speed drives are presented in particular tables.

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

2
poles
120 to 2700 min⁻¹

Type	Output power kW	Rated torque M_N N.m	Torques for speeds (min ⁻¹) N.m									
			120	300	600	900	1200	1500	1800	2100	2400	2700
LSMV 71	0.25	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
LSMV 71	0.37	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LSMV 71	0.55	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
LSMV 80 L	0.75	2.5	2.4	2.6	3	3	3	3	3	3	3	3
LSMV 80 L	1.1	3.7	3.5	4	4	4	4	4.3	4.5	4.5	4.5	4.3
LSMV 90 L	1.5	5	4.8	5.7	6	6	6	6	6	6	6	6
LSMV 90 L	2.2	7.4	6.5	7	8	8	8	8.2	8.5	8.8	9	8.8
LSMV 100 L	3	10	8.5	10	11	11.2	11.5	11.8	12	12.5	12.5	12
LSMV 112 MG	4	13.5	10	12	13.5	13.8	14	14.5	15	15.3	15.5	15
LSMV 132 SM	5.5	18.1	17	20	20	20	20	20	20	20	20	19.5
LSMV 132 SM	7.5	24.5	20	23	26	27	28	28	28	28	28	27
LSMV 132 M	9	29.6	30	30	30	30	30	30	30	30	30	30
LSMV 132 M	11	36	27	35	39	40	41	42	43	43	43	42
LSMV 160 MP	11	36	36	36	36	36	36	36	36	36	36	36
LSMV 160 MR	15	48.8	49	49	49	49	49	49	49	49	49	49

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

2
poles
3000 to 6000 min⁻¹

Type	Output power	Rated torque	Torques for speeds (min ⁻¹)										
	kW	M_N N.m	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000
LSMV 71	0.25	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4
LSMV 71	0.37	1.2	1.2	1.1	1	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.6
LSMV 71	0.55	1.8	1.8	1.7	1.5	1.4	1.2	1.2	1.1	1	1	0.9	0.9
LSMV 80 L	0.75	2.5	3	2.8	2.5	2.4	2.2	2	1.9	1.8	1.7	1.3	1.2
LSMV 80 L	1.1	3.7	4	3.8	3.5	3.3	3	2.8	2.6	2.4	2.2	1.8	1.8
LSMV 90 L	1.5	5	6	5.5	5	4.5	4.2	3.9	3.7	3.5	3.3	2.5	2.4
LSMV 90 L	2.2	7.4	8.3	7	6.5	6	5.5	5	4.8	4.6	4.2	3.7	3.5
LSMV 100 L	3	10	11.5	11	9	8	7.1	6.8	6.2	6	5.4	5	4.8
LSMV 112 MG	4	13.5	14.4	13	11.5	10.5	9.2	8.8	8	7.5	7	6.7	6.4
LSMV 132 SM	5.5	18.1	19.5	17.5	16.5	15	14	13	11.5	10.5	9.5	9.2	8.8
LSMV 132 M	7.5	24.5	26	24	22	20	18	16.5	15.5	14	13	12.6	11.9
LSMV 132 M	9	29.6	30	26	24	22	20	19	18	17	16	15	14
LSMV 132 M	11	36	41	38	33	30	26	24	22	20	18	18.4	17.5
LSMV 160 MP	11	36	36	32	29	27	25	23	22	21	19	18.4	17.5
LSMV 160 MR	15	48.8	49	43	40	37	34	32	30	28	27	25	24

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
150 to 1350 min⁻¹

Type	Output power kW	Rated torque M_N N.m	Torques for speeds (min ⁻¹) N.m								
			150	300	450	600	750	900	1050	1200	1350
LSMV 71	0.18	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LSMV 71	0.25	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
LSMV 71	0.37	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
LSMV 80 L	0.55	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
LSMV 80 L	0.75	5.1	45	5	5.28	5.5	5.5	5.5	5.5	5.5	5.5
LSMV 90 SL	1.1	7.4	7	7.5	8	8.17	8.29	8.42	8.5	8.5	8.5
LSMV 90 L	1.5	10	8.5	9.5	9.5	9.5	9.6	9.7	9.82	10	10.5
LSMV 100 L	2.2	14.7	12	14	14	14	14.3	14.6	15	15.3	15.8
LSMV 100 L	3	20.1	15	17	18	19	19.6	20.5	21	21	21
LSMV 112 MG	4	26.8	22	25	25.5	26	26.6	27.2	28	28	28
LSMV 132 SM	5.5	36.7	38	38	39	40	40	40	40	40	39.5
LSMV 132 M	7.5	49.4	40	48	49	50	50	50	50	50	50
LSMV 132 M	9	59.3	50	58	60.5	63	64	65	66	66	65
LSMV 160 MR	11	72.2	65	73	75	78	78.6	79.4	80	79.5	79
LSMV 160 LU	15	98	77	89	101	107	112	114	115	116	115
LSMV 180 M	18.5	121	110	113	120	127	133	138	143	143	145
LSMV 180 LU	22	144	121	136	147	155	161	165	168	171	169
LSMV 200 L	30	196	160	177	191	201	209	217	222	223	219
LSMV 225 SR	37	241	166	198	226	238	247	254	257	258	256
LSMV 225 MG	45	293	260	291	313	328	340	348	355	353	351
LSMV 250 ME	55	355	275	330	375	388	398	408	415	411	406
LSMV 280 SD	75	485	348	433	475	494	508	518	521	519	512
LSMV 280 MK	90	581	440	510	570	605	635	660	675	670	660
LSMV 315 SP	110	708	562	635	708	724	740	752	761	758	753
LSMV 315 MR	132	849	840	840	840	840	840	840	840	840	840

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 to 3000 min⁻¹

Type	Output power kW	Rated torque M_N N.m	Torques for speeds (min ⁻¹) N.m										
			1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
LSMV 71	0.18	1.2	1.2	1.1	1	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6
LSMV 71	0.25	1.7	1.7	1.5	1.3	1.2	1.1	1	1	0.9	0.9	0.8	0.8
LSMV 71	0.37	2.4	2.4	2.2	2	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.2
LSMV 80 L	0.55	3.8	4.2	3.2	2.9	2.7	2.5	2.3	2.2	2.1	1.9	1.8	1.7
LSMV 80 SL	0.75	5.1	5.5	5	4.61	4.3	4	3.8	3.52	3.3	3.05	2.8	2.5
LSMV 90 SL	1.1	7.4	8.5	7.69	7.2	6.6	6.1	5.6	5	4.58	4.3	3.88	3.5
LSMV 90 L	1.5	10	11	10	9	8	7	6.5	6	5.7	5.33	5	4.7
LSMV 100 L	2.2	14.7	16	15	13.8	12	11	10.43	9.7	9	8	7.5	7
LSMV 100 L	3	20.1	21	19.5	18	16.5	15	14	13	12	11	10	9
LSMV 112 MG	4	26.8	28	25	22	20.5	19	17.5	16.5	15.5	14.5	14	13
LSMV 132 SM	5.5	36.7	39	34.5	32	29.5	27	25	23	21.5	20	18	17.4
LSMV 132 M	7.5	49.4	50	45.5	41	37.5	34	31.5	29	27	25	23.5	22
LSMV 132 M	9	59.3	65	59.5	54	49.5	45	42	39	36	33	31	29
LSMV 160 MR	11	72.2	78	72	66	60.5	55	50	45	43	41	38.5	36
LSMV 160 LU	15	98	112	102.5	93	85	77	70.5	64	56	53	50	48
LSMV 180 M	18.5	121	138	125.5	113	104.5	96	87	78	69	65	62	59
LSMV 180 LU	22	144	164	146.5	129	118.5	108	99.5	91	81	75	70	63
LSMV 200 L	30	196	212	197	182	160	144.2	130	121.2	112	106	101	95
LSMV 225 SR	37	241	251	231.9	216	200	180	163.8	150	139	131	124	118
LSMV 225 MG	45	293	346	320	294	267.6	248	232.2	203	169	159	151	143
LSMV 250 ME	55	355	395	379	355	320	292	265	238	206	195	184	175
LSMV 280 SD	75	485	500	450	392	360	340	320	300	281	263	251	239
LSMV 280 MK	90	581	640	590	530	484	447	400	375	337	318	302	286
LSMV 315 SP	110	708	743	700	640	588	547	500	458	412	389	369	350
LSMV 315 MR	132	849	840	764	700	646	600	560	525	494	467	442	420

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

6
poles
60 to 900 min⁻¹

Type	Output power kW	Rated torque M_N N.m	Torques for speeds (min ⁻¹) N.m									
			60	150	200	300	400	500	600	700	800	900
LSMV 90 S	0.75	7.2	6.5	7	7.2	7.5	7.7	7.9	8	8	8	8
LSMV 90 L	1.1	10.5	8	8.5	9	9.5	9.7	9.9	10	10	10	10
LSMV 100 L	1.5	14.3	11	12	12.5	13	13.4	13.7	14	14	14	14
LSMV 112 M	2.2	21	15	16	16.84	17.57	18.4	19.39	20	20.2	20.5	20.7
LSMV 132 S	3	28.6	21	22	23.43	25	26	27	28	28	28	28
LSMV 132 M	4	38.2	32	35	35.5	36	36	36	36	36	35.9	35.4
LSMV 132 M	5.5	52.5	35	40	44	48	48	48	48	48	48	48
LSMV 160 M	7.5	74	72	72	72	72	72	72	72	72	72	72
LSMV 160 L	11	109	105	105	105	105	105	105	105	105	105	105
LSMV 180 L	15	147	143	143	143	143	143	143	143	143	143	143
LSMV 200 LT	18.5	182	177	177	177	177	177	177	177	177	177	177
LSMV 200 L	22	215	210	210	210	210	210	210	210	210	210	210
LSMV 225 MR	30	296	286	286	286	286	286	286	286	286	286	286
LSMV 250 ME	37	360	353	353	353	353	353	353	353	353	353	353
LSMV 280 SC	45	436	430	430	430	430	430	430	430	430	430	430
LSMV 280 MC	55	541	525	525	525	525	525	525	525	525	525	525
LSMV 315 SP	75	733	716	716	716	716	716	716	716	716	716	716
LSMV 315 MP	90	880	859	859	859	859	859	859	859	859	859	859

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

6
poles
1000 to 2000 min⁻¹

Type	Output power kW	Rated torque M_N N.m	Torques for speeds (min ⁻¹) N.m										
			1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
LSMV 90 S	0.75	7.2	8	7	6.2	5.82	5.54	5.3	5	4.64	4.3	3.8	3.6
LSMV 90 L	1.1	10.5	10	9	8	7.5	7	6.5	6.1	5.6	5	4.5	3.3
LSMV 100 L	1.5	14.3	14	13	12	11	10	9	8	7.5	7	6.5	6.2
LSMV 112 M	2.2	21	21	19.28	17.52	16.22	15.18	14	12.5	11.5	10.6	9.1	8.5
LSMV 132 S	3	28.6	28	26	24	22	20	17	15	14	13	12.1	11.3
LSMV 132 M	4	38.2	35	31.06	28	26	24	22	20	18.2	17	16.1	15.1
LSMV 132 M	5.5	52.5	48	44	40	37.4	34.9	33	30	28	25	23.6	22.3
LSMV 160 M	7.5	74	72	65	60	55	51	48	45	42	40	38	36
LSMV 160 L	11	109	105	95	88	81	75	70	66	62	58	55	53
LSMV 180 L	15	147	143	130	119	110	102	95	90	84	80	75	72
LSMV 200 LT	18.5	182	177	161	147	136	126	118	110	104	98	93	88
LSMV 200 L	22	215	210	191	175	162	150	140	131	124	117	111	105
LSMV 225 MR	30	296	286	260	239	220	205	191	179	169	159	151	143
LSMV 250 ME	37	360	353	321	294	272	252	236	221	208	196	186	177
LSMV 280 SC	45	436	430	391	358	331	307	286	269	253	239	226	215
LSMV 280 MC	55	541	525	477	438	404	375	350	328	309	292	276	263
LSMV 315 SP	75	733	716	651	597	551	512	477	448	421	398	377	358
LSMV 315 MP	90	880	859	781	716	661	614	573	537	506	477	452	430

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

2
poles
3000 min⁻¹

Type	Rated power at 50 Hz P_N kW	Rated speed n_N min ⁻¹	Rated moment M_N N.m	Maximum torque / Rated torque M_{Max}/M_N N.m	No-load current I_0 A	Rated current $I_N (400V)$ A	Power factor $\cos \varphi$ 100 %	Efficiency η 100 %	Moment of inertia J kg.m ²	Weight IM B3 kg
LSMV 71	0.25	2900	0.82	5.8	0.65	0.75	0.65	72	0.00035	6.4
LSMV 71	0.37	2900	1.22	4.8	0.85	1.1	0.65	73	0.00045	7.3
LSMV 71	0.55	2890	1.82	4.2	0.95	1.45	0.7	77	0.00060	8.3
LSMV 80 L	0.75	2865	2.5	2.6	0.69	1.6	0.88	80	0.0009	11
LSMV 80 L	1.1	2880	3.7	2.7	1	2.2	0.87	83	0.0011	12.5
LSMV 90 L	1.5	2885	5	3.9	1.1	2.9	0.90	83	0.0017	18.5
LSMV 90 L	2.2	2900	7.1	3.75	2.35	4.6	0.85	83	0.0023	21
LSMV 100 L	3	2875	9.9	3.6	2.4	5.7	0.89	84	0.0029	26
LSMV 112 MG	4	2900	13.2	2.89	2.29	7.5	0.92	84	0.0092	36
LSMV 132 SM	5.5	2915	18	3.1	2.73	10.1	0.91	86	0.0236	53
LSMV 132 M	7.5	2910	24.5	2.8	3.2	13.6	0.92	86	0.0289	58
LSMV 132 M	9	2940	29.3	3.6	5.2	16.6	0.88	88.5	0.0183	60
LSMV 132 M	11	2935	35.8	4	8.6	20.6	0.87	89	0.0203	61
LSMV 160 MP	11	2935	35.8	4	8.6	20.6	0.87	89	0.0212	72
LSMV 160 MR	15	2950	48.7	4	12	28	0.86	90	0.0259	82

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

2
poles
3000 min⁻¹

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)	
		Code	Qty	Code	Qty
LSMV 71	0.25		-		-
LSMV 71	0.37		-		-
LSMV 71	0.55		-		-
LSMV 80 L	0.75		-		-
LSMV 80 L	1.1		-		-
LSMV 90 L	1.5		-		-
LSMV 90 L	2.2		-		-
LSMV 100 L	3		-		-
LSMV 112 MG	4		-		-
LSMV 132 SM	5.5		-		-
LSMV 132 M	7.5		-		-
LSMV 132 M	9		-		-
LSMV 132 M	11		-		-
LSMV 160 MP	11		-		-
LSMV 160 MR	15		-		-



Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 min⁻¹

Type	Rated power at 50 Hz P_N kW	Rated speed n_N min ⁻¹	Rated moment M_N N.m	Maximum torque / Rated torque M_{Max}/M_N N.m	No-load current I_o A	Rated current $I_N (400V)$ A	Power factor $\cos \varphi$ 100 %	Efficiency η 100 %	Moment of inertia J kg.m ²	Weight IM B3 kg
LSMV 71	0.18	1450	1.2	4	0.65	0.7	0.55	69	0.00068	6.4
LSMV 71	0.25	1450	1.7	4	0.8	0.95	0.55	70	0.00085	6.4
LSMV 71	0.37	1450	2.5	3.7	1.2	1.3	0.55	71	0.0011	7.3
LSMV 80 L	0.55	1420	3.7	2.7	1	1.65	0.71	68	0.0013	8.2
LSMV 80 L	0.75	1435	4.9	3	1.43	2	0.71	77	0.0024	11
LSMV 90 L	1.1	1445	7.2	2.3	1.33	2.5	0.82	79	0.0039	17
LSMV 90 L	1.5	1435	9.9	2.3	1.54	3.2	0.84	80	0.0049	17
LSMV 100 L	2.2	1440	14.6	2.67	2.27	4.7	0.83	81	0.0071	24
LSMV 100 L	3	1430	19.4	2.8	3.1	6.3	0.82	81	0.0071	24
LSMV 112 MG	4	1460	26	3.2	4.6	8.4	0.80	85	0.015	33.3
LSMV 132 SM	5.5	1460	37	3.23	4.4	10.4	0.87	86	0.0334	55
LSMV 132 M	7.5	1455	49.4	2.78	4.7	14	0.89	87	0.035	55
LSMV 132 M	9	1460	58.8	3.14	6.5	16.8	0.88	88	0.0385	62
LSMV 160 MR	11	1460	71.7	3.11	6.6	20.2	0.88	89	0.069	90
LSMV 160 LU	15	1465	97.8	3.79	11.7	28.3	0.85	90.7	0.096	109
LSMV 180 M	18.5	1468	120	2.99	14.1	34.4	0.84	92.4	0.123	136
LSMV 180 LU	22	1468	143	3.2	16.9	40.7	0.84	92.8	0.145	155
LSMV 200 L	30	1476	194	3	22.9	55.8	0.83	93	0.24	200
LSMV 225 SR	37	1475	240	2.9	28.9	68.9	0.82	93.9	0.29	235
LSMV 225 MG	45	1483	290	3.2	34.9	82.9	0.83	94.2	0.63	320
LSMV 250 ME	55	1481	354.6	2.9	38.5	100	0.84	94.4	0.73	340
LSMV 280 SD	75	1482	483	3.2	55.1	137.1	0.83	94.9	0.96	430
LSMV 280 MK	90	1488	577.4	3.3	68.2	165	0.83	94.9	2.32	655
LSMV 315 SP	110	1489	705.5	3.6	81.7	200	0.83	94.9	2.79	750
LSMV 315 MR	132	1488	847	3.3	77	230	0.88	94.3	3.27	860

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 min⁻¹

LS MV without option

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)	
		Code	Qty	Code	Qty
LSMV 71	0.18				
LSMV 71	0.25	4144742	2	4144738	2
LSMV 71	0.37	4144741	2	4135982	2
LSMV 80 L	0.55		-		-
LSMV 80 L	0.75	MM4 75 101	2	MM4 75 102	2
LSMV 90 L	1.1	MM4 11 201	2	MM4 11 202	2
LSMV 90 L	1.5	MM4 15 201	2	MM4 15 202	2
LSMV 100 L	2.2	MM4 22 201	2	MM4 22 202	2
LSMV 100 L	3	MM4 30 201	2	MM4 30 202	2
LSMV 112 MG	4	MM4 40 201	2	MM4 40 202	2
LSMV 132 SM	5.5	MM4 55 201	2	MM4 55 202	2
LSMV 132 M	7.5	MM4 75 201	2	MM4 75 202	2
LSMV 132 M	9	MM4 90 201	2	MM4 90 202	2
LSMV 160 MR	11	MM4 11 301	2	MM4 11 302	2
LSMV 160 LU	15	MM4 15 301	2	MM4 15 302	1
LSMV 180 M	18.5	MM4 18 301	1	MM4 18 302	1
LSMV 180 LU	22	MM4 22 301	1	MM4 22 302	1
LSMV 200 L	30	MM4 30 301	1	MM4 30 302	1
LSMV 225 SR	37	3646211	1	4032339	1
LSMV 225 MG	45	4154902	1	4154903	1
LSMV 250 ME	55	4154911	1	4154915	1
LSMV 280 SD	75		-		-
LSMV 280 MK	90		-		-
LSMV 315 SP	110		-		-
LSMV 315 MR	132		-		-

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	5.5 kW
Mounting and position :	IM 1001 (IM B3)
Supply voltage :	230/400 V

Designation :

**4P LSMV 132 SM 5.5 kW IM 1001
(IM B3) 400 V Y**

Code : MM4 55 201

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 min⁻¹

Type	Rated power at 50 Hz P_N kW	Rated speed n_N min ⁻¹	Rated moment M_N N.m	Maximum torque / Rated torque M_{Max}/M_N N.m	No-load current I_0 A	Rated current $I_N(400V)$ A	Power factor $\cos \varphi$ 100 %	Efficiency η 100 %	Moment of inertia J kg.m ²	Weight IM B3 kg
LSMV 71	0.18	1450	1.2	4	0.65	0.7	0.55	69	0.00068	6.4
LSMV 71	0.25	1450	1.7	4	0.8	0.95	0.55	70	0.00085	6.4
LSMV 71	0.37	1450	2.5	3.7	1.2	1.3	0.55	71	0.0011	7.3
LSMV 80 L	0.55	1420	3.7	2.7	1	1.65	0.71	68	0.0013	8.2
LSMV 80 L	0.75	1435	4.9	3	1.43	2	0.71	77	0.0024	11
LSMV 90 L	1.1	1445	7.2	2.3	1.33	2.5	0.82	79	0.0039	17
LSMV 90 L	1.5	1435	9.9	2.3	1.54	3.2	0.84	80	0.0049	17
LSMV 100 L	2.2	1440	14.6	2.67	2.27	4.7	0.83	81	0.0071	24
LSMV 100 L	3	1430	19.4	2.8	3.1	6.3	0.82	81	0.0071	24
LSMV 112 MG	4	1460	26	3.2	4.6	8.4	0.80	85	0.015	33.3
LSMV 132 SM	5.5	1460	37	3.23	4.4	10.4	0.87	86	0.0334	55
LSMV 132 M	7.5	1455	49.4	2.78	4.7	14	0.89	87	0.035	55
LSMV 132 M	9	1460	58.8	3.14	6.5	16.8	0.88	88	0.0385	62
LSMV 160 MR	11	1460	71.7	3.11	6.6	20.2	0.88	89	0.069	90
LSMV 160 LU	15	1465	97.8	3.79	11.7	28.3	0.85	90.7	0.096	109
LSMV 180 M	18.5	1468	120	2.99	14.1	34.4	0.84	92.4	0.123	136
LSMV 180 LU	22	1468	143	3.2	16.9	40.7	0.84	92.8	0.145	155
LSMV 200 L	30	1476	194	3	22.9	55.8	0.83	93	0.24	200
LSMV 225 SR	37	1475	240	2.9	28.9	68.9	0.82	93.9	0.29	235
LSMV 225 MG	45	1483	290	3.2	34.9	82.9	0.83	94.2	0.63	320
LSMV 250 ME	55	1481	354.6	2.9	38.5	100	0.84	94.4	0.73	340
LSMV 280 SD	75	1482	483	3.2	55.1	137.1	0.83	94.9	0.96	430
LSMV 280 MK	90	1488	577.4	3.3	68.2	165	0.83	94.9	2.32	655
LSMV 315 SP	110	1489	705.5	3.6	81.7	200	0.83	94.9	2.79	750
LSMV 315 MR	132	1488	847	3.3	77	230	0.88	94.3	3.27	860

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 min⁻¹

+ Forced ventilation

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)	
		Code	Qty	Code	Qty
LSMV 71	0.18				
LSMV 71	0.25	4144136	2	4144132	2
LSMV 71	0.37	4144135	2	4042541	2
LSMV 80 L	0.55		-		-
LSMV 80 L	0.75	MM4 75 10A	2	MM4 75 10B	2
LSMV 90 L	1.1	MM4 11 20A	2	MM4 11 20B	2
LSMV 90 L	1.5	MM4 15 20A	2	MM4 15 20B	2
LSMV 100 L	2.2	MM4 22 20A	2	MM4 22 20B	2
LSMV 100 L	3	MM4 30 20A	2	MM4 30 20B	2
LSMV 112 MG	4	MM4 40 20A	2	MM4 40 20B	2
LSMV 132 SM	5.5	MM4 55 20A	2	MM4 55 20B	2
LSMV 132 M	7.5	MM4 75 20A	2	MM4 75 20B	2
LSMV 132 M	9	MM4 90 20A	2	MM4 90 20B	2
LSMV 160 MR	11	MM4 11 30A	2	MM4 11 30B	2
LSMV 160 LU	15	MM4 15 30A	2	MM4 15 30B	2
LSMV 180 M	18.5	MM4 18 30A	1	MM4 18 30B	1
LSMV 180 LU	22	MM4 22 30A	1	MM4 22 30B	1
LSMV 200 L	30	MM4 30 30A	1	MM4 30 30B	1
LSMV 225 SR	37	3637819	1	3761512	1
LSMV 225 MG	45	4154904	1	4154905	1
LSMV 250 ME	55	4154916	1	4155104	1
LSMV 280 SD	75		-		-
LSMV 280 MK	90		-		-
LSMV 315 SP	110		-		-
LSMV 315 MR	132		-		-

Selection example :

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

Designation :

**4P LSMV 112 MG 4 kW IM 1001
(IM B3) 400 V Y VF**

Code : MM4 40 20A

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

4
poles
1500 min⁻¹

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

Type	Rated power at 50 Hz P_N kW	Rated speed n_N min ⁻¹	Rated moment M_N N.m	Maximum torque / Rated torque M_{Max}/M_N N.m	No-load current I_o A	Rated current $I_N(400V)$ A	Power factor $\cos \varphi$ 100 %	Efficiency η 100 %	Moment of inertia J kg.m ²	Weight IM B3 kg
LSMV 71	0.18	1455	1.19	4	0.65	0.67	0.57	69	0.000675	6.4
LSMV 71	0.25	1450	1.68	4	0.8	0.91	0.58	70	0.000675	6.4
LSMV 71	0.37	1452	2.44	3.7	1.2	1.3	0.58	71	0.00085	7.3
LSMV 80 L	0.55	1420	3.7	2.7	1	1.65	0.71	68	0.0013	8.2
LSMV 80 L	0.75	1435	4.9	3	1.43	2	0.71	77	0.0024	11
LSMV 90 L	1.1	1445	7.2	2.3	1.33	2.5	0.82	79	0.0039	17
LSMV 90 L	1.5	1435	9.9	2.3	1.54	3.2	0.84	80	0.0049	17
LSMV 100 L	2.2	1440	14.6	2.67	2.27	4.7	0.83	81	0.0071	24
LSMV 100 L	3	1430	19.4	2.8	3.1	6.3	0.82	81	0.0071	24
LSMV 112 MG	4	1460	26	3.2	4.6	8.4	0.80	85	0.015	33.3
LSMV 132 SM	5.5	1460	37	3.23	4.4	10.4	0.87	86	0.0334	55
LSMV 132 M	7.5	1455	49.4	2.78	4.7	14	0.89	87	0.035	55
LSMV 132 M	9	1460	58.8	3.14	6.5	16.8	0.88	88	0.0385	62
LSMV 160 MR	11	1460	71.7	3.11	6.6	20.2	0.88	89	0.069	90
LSMV 160 LU	15	1465	97.8	3.79	11.7	28.3	0.85	90.7	0.096	109
LSMV 180 M	18.5	1468	120	2.99	14.1	34.4	0.84	92.4	0.123	136
LSMV 180 LU	22	1468	143	3.2	16.9	40.7	0.84	92.8	0.145	155
LSMV 200 L	30	1476	194	3	22.9	55.8	0.83	93	0.24	200
LSMV 225 SR	37	1475	240	2.9	28.9	68.9	0.82	93.9	0.29	235
LSMV 225 MG	45	1483	290	3.2	34.9	82.9	0.83	94.2	0.63	320
LSMV 250 ME	55	1481	354.6	2.9	38.5	100	0.84	94.4	0.73	340
LSMV 280 SD	75	1482	483	3.2	55.1	137.1	0.83	94.9	0.96	430
LSMV 280 MK	90	1488	577.4	3.3	68.2	165	0.83	94.9	2.32	655
LSMV 315 SP	110	1489	705.5	3.6	81.7	200	0.83	94.9	2.79	750
LSMV 315 MR	132	1488	847	3.3	77	230	0.88	94.3	3.27	860

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 min⁻¹

+ Encoder 1024 points - 5 V

+ Encoder 1024 points - 11/30 V

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)		IM 1001 (IM B3)		IM 3001 (IM B5)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty
LSMV 71	0.18		-		-		-		-
LSMV 71	0.25	4308298	2	4369886	2	4452043	2	4452060	2
LSMV 71	0.37	4163454	2	4118006	2	4452059	2	4452061	2
LSMV 80 L	0.55		-		-		-		-
LSMV 80 L	0.75	MM4 75 10C	2	MM4 75 10D	2	3645822	2	3748060	2
LSMV 90 L	1.1	MM4 11 20C	2	MM4 11 20D	2	4143487	2	4065099	2
LSMV 90 L	1.5	MM4 15 20C	2	MM4 15 20D	2	3767359	2	3648098	2
LSMV 100 L	2.2	MM4 22 20C	2	MM4 22 20D	2	3648061	2	3783634	2
LSMV 100 L	3	MM4 30 20C	2	MM4 30 20D	2	3870244	2	3962047	2
LSMV 112 MG	4	MM4 40 20C	2	MM4 40 20D	2	3767361	2	3755362	2
LSMV 132 SM	5.5	MM4 55 20C	2	MM4 55 20D	2	3890129	2	4034328	2
LSMV 132 M	7.5	MM4 75 20C	2	MM4 75 20D	2	3638913	2	3843999	2
LSMV 132 M	9	MM4 90 20C	2	MM4 90 20D	2	4143508	2	4143510	2
LSMV 160 MR	11	MM4 11 30C	2	MM4 11 30D	2	3915072	2	4023540	2
LSMV 160 LU	15	3607242	1	3637672	1	4013777	1	4041671	1
LSMV 180 M	18.5	4155023	1	3833424	1	4427949	1	4161710	1
LSMV 180 LU	22	3743195	1	3685441	1	4325410	1	4050853	1
LSMV 200 L	30	3743197	1	3658755	1	3941683	1	4506795	1
LSMV 225 SR	37	3811846	1	3832248	1	4076069	1	3751422	1
LSMV 225 MG	45	4154906	1	4154907	1	4506872	1	4506873	1
LSMV 250 ME	55	4150681	1	4506883	1	4174760	1	4506879	1
LSMV 280 SD	75		-		-		-		-
LSMV 280 MK	90		-		-		-		-
LSMV 315 SP	110		-		-		-		-
LSMV 315 MR	132		-		-		-		-

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	4 kW
Mounting and position :	IM 1001 (IM B3)
Supply voltage :	230/400 V
Option :	Encoder 1024 pts 5 V

Designation :

**4P LSMV 112 MG 4 kW IM 1001
(IM B3) 400 V Y Encoder 1024 points
5 V**

Code : MM4 40 20C

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

4
poles
1500 min⁻¹

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

Type	Rated power at 50 Hz P_N kW	Rated speed n_N min ⁻¹	Rated moment M_N N.m	Maximum torque / Rated torque M_{Max}/M_N N.m	No-load current I_o A	Rated current $I_N(400V)$ A	Power factor $\cos \varphi$ 100 %	Efficiency η 100 %	Moment of inertia J kg.m ²	Weight IM B3 kg
LSMV 71	0.18	1455	1.19	4	0.65	0.67	0.57	69	0.000675	6.4
LSMV 71	0.25	1450	1.68	4	0.8	0.91	0.58	70	0.000675	6.4
LSMV 71	0.37	1452	2.44	3.7	1.2	1.3	0.58	71	0.00085	7.3
LSMV 80 L	0.55	1420	3.7	2.7	1	1.65	0.71	68	0.0013	8.2
LSMV 80 L	0.75	1435	4.9	3	1.43	2	0.71	77	0.0024	11
LSMV 90 L	1.1	1445	7.2	2.3	1.33	2.5	0.82	79	0.0039	17
LSMV 90 L	1.5	1435	9.9	2.3	1.54	3.2	0.84	80	0.0049	17
LSMV 100 L	2.2	1440	14.6	2.67	2.27	4.7	0.83	81	0.0071	24
LSMV 100 L	3	1430	19.4	2.8	3.1	6.3	0.82	81	0.0071	24
LSMV 112 MG	4	1460	26	3.2	4.6	8.4	0.80	85	0.015	33.3
LSMV 132 SM	5.5	1460	37	3.23	4.4	10.4	0.87	86	0.0334	55
LSMV 132 M	7.5	1455	49.4	2.78	4.7	14	0.89	87	0.035	55
LSMV 132 M	9	1460	58.8	3.14	6.5	16.8	0.88	88	0.0385	62
LSMV 160 MR	11	1460	71.7	3.11	6.6	20.2	0.88	89	0.069	90
LSMV 160 LU	15	1465	97.8	3.79	11.7	28.3	0.85	90.7	0.096	109
LSMV 180 M	18.5	1468	120	2.99	14.1	34.4	0.84	92.4	0.123	136
LSMV 180 LU	22	1468	143	3.2	16.9	40.7	0.84	92.8	0.145	155
LSMV 200 L	30	1476	194	3	22.9	55.8	0.83	93	0.24	200
LSMV 225 SR	37	1475	240	2.9	28.9	68.9	0.82	93.9	0.29	235
LSMV 225 MG	45	1483	290	3.2	34.9	82.9	0.83	94.2	0.63	320
LSMV 250 ME	55	1481	354.6	2.9	38.5	100	0.84	94.4	0.73	340
LSMV 280 SD	75	1482	483	3.2	55.1	137.1	0.83	94.9	0.96	430
LSMV 280 MK	90	1488	577.4	3.3	68.2	165	0.83	94.9	2.32	655
LSMV 315 SP	110	1489	705.5	3.6	81.7	200	0.83	94.9	2.79	750
LSMV 315 MR	132	1488	847	3.3	77	230	0.88	94.3	3.27	860

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 min⁻¹

+ Forced ventilation
+ Encoder 1024 points - 5 V

+ Forced ventilation
+ Encoder 1024 points - 11/30V

Type	Rated power at 50 Hz P_N kW	IM 1001 (IM B3)		IM 3001 (IM B5)		IM 1001 (IM B3)		IM 3001 (IM B5)	
		Code	Qty	Code	Qty	Code	Qty	Code	Qty
LSMV 71	0.18		-		-		-		-
LSMV 71	0.25	4366033	2	4356596	2	4452063	2	4452065	2
LSMV 71	0.37	4100779	2	4198752	2	4301943	2	4307530	2
LSMV 80 L	0.55		-		-		-		-
LSMV 80 L	0.75	MM4 75 10G	2	MM4 75 10H	2	3665678	2	3729455	2
LSMV 90 L	1.1	MM4 11 20G	2	MM4 11 20H	2	3808050	2	3717024	2
LSMV 90 L	1.5	MM4 15 20G	2	MM4 15 20H	2	3713030	2	3679281	2
LSMV 100 L	2.2	MM4 22 20G	2	MM4 22 20H	2	3681121	2	3693944	2
LSMV 100 L	3	MM4 30 20G	2	MM4 30 20H	2	3735802	2	3690067	2
LSMV 112 MG	4	MM4 40 20G	2	MM4 40 20H	2	3786875	2	3708916	2
LSMV 132 SM	5.5	MM4 55 20G	2	MM4 55 20H	2	3802165	2	3738298	2
LSMV 132 M	7.5	MM4 75 20G	2	MM4 75 20H	2	3741398	2	3818824	2
LSMV 132 M	9	MM4 90 20G	2	MM4 90 20H	2	3892739	2	4143518	2
LSMV 160 MR	11	MM4 11 30G	2	MM4 11 30H	1	4091215	2	3962617	2
LSMV 160 LU	15	MM4 15 30G	1	MM4 15 30H	1	3724375	1	4049228	1
LSMV 180 M	18.5	MM4 18 30G	1	MM4 18 30H	1	4294342	1	4353932	1
LSMV 180 LU	22	MM4 22 30G	1	MM4 22 30H	1	3811983	1	3983285	1
LSMV 200 L	30	MM4 30 30G	1	MM4 30 30H	1	3704887	1	4353934	1
LSMV 225 SR	37	3610879	1	3618865	1	3830361	1	4506869	1
LSMV 225 MG	45	4154908	1	4154910	1	4506875	1	4506894	1
LSMV 250 ME	55	4148265	1	4155103	1	4144681	1	4292575	1
LSMV 280 SD	75		-		-		-		-
LSMV 280 MK	90		-		-		-		-
LSMV 315 SP	110		-		-		-		-
LSMV 315 MR	132		-		-		-		-

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	4 kW
Mounting and position :	IM 1001 (IM B3)
Supply voltage :	230/400 V
Option :	VF+Encoder 1024pts 5V

Designation :

**4P LSMV 112 MG 4 kW IM 1001
(IM B3) 400 V Y VF + Encoder 1024
points 5 V**

Code : MM4 40 20G

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

4
poles
1500 min⁻¹

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

Type	Rated power at 50 Hz	Rated speed	Rated moment	Maximum torque / Rated torque	No-load current	Rated current	Power factor	Efficiency	Moment of inertia	Weight
	P_N kW	n_N min ⁻¹	M_N N.m	M_{Max}/M_N N.m	I_o A	$I_N(400V)$ A	$\cos \varphi$ 100 %	η 100 %	J kg.m ²	IM B3 kg
LSMV 71	0.18	1455	1.19	4	0.65	0.67	0.57	69	0.000675	6.4
LSMV 71	0.25	1450	1.68	4	0.8	0.91	0.58	70	0.000675	6.4
LSMV 71	0.37	1452	2.44	3.7	1.2	1.3	0.58	71	0.00085	7.3
LSMV 80 L	0.55	1420	3.7	2.7	1	1.65	0.71	68	0.0013	8.2
LSMV 80 L	0.75	1435	4.9	3	1.43	2	0.71	77	0.0024	11
LSMV 90 L	1.1	1445	7.2	2.3	1.33	2.5	0.82	79	0.0039	17
LSMV 90 L	1.5	1435	9.9	2.3	1.54	3.2	0.84	80	0.0049	17
LSMV 100 L	2.2	1440	14.6	2.67	2.27	4.7	0.83	81	0.0071	24
LSMV 100 L	3	1430	19.4	2.8	3.1	6.3	0.82	81	0.0071	24
LSMV 112 MG	4	1460	26	3.2	4.6	8.4	0.80	85	0.015	33.3
LSMV 132 SM	5.5	1460	37	3.23	4.4	10.4	0.87	86	0.0334	55
LSMV 132 M	7.5	1455	49.4	2.78	4.7	14	0.89	87	0.035	55
LSMV 132 M	9	1460	58.8	3.14	6.5	16.8	0.88	88	0.0385	62

4
poles
1500 min⁻¹

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

Type	Rated power at 50 Hz	Rated speed	Rated moment	Maximum torque / Rated torque	No-load current	Rated current	Power factor	Efficiency	Moment of inertia	Weight
	P_N kW	n_N min ⁻¹	M_N N.m	M_{Max}/M_N N.m	I_o A	$I_N(400V)$ A	$\cos \varphi$ 100 %	η 100 %	J kg.m ²	IM B3 kg
LSMV 71	0.18	1455	1.19	4	0.65	0.67	0.57	69	0.000675	6.4
LSMV 71	0.25	1450	1.68	4	0.8	0.91	0.58	70	0.000675	6.4
LSMV 71	0.37	1452	2.44	3.7	1.2	1.3	0.58	71	0.00085	7.3
LSMV 80 L	0.55	1420	3.7	2.7	1	1.65	0.71	68	0.0013	8.2
LSMV 80 L	0.75	1435	4.9	3	1.43	2	0.71	77	0.0024	11
LSMV 90 L	1.1	1445	7.2	2.3	1.33	2.5	0.82	79	0.0039	17
LSMV 90 L	1.5	1435	9.9	2.3	1.54	3.2	0.84	80	0.0049	17
LSMV 100 L	2.2	1440	14.6	2.67	2.27	4.7	0.83	81	0.0071	24
LSMV 100 L	3	1430	19.4	2.8	3.1	6.3	0.82	81	0.0071	24
LSMV 112 MG	4	1460	26	3.2	4.6	8.4	0.80	85	0.015	33.3
LSMV 132 SM	5.5	1460	37	3.23	4.4	10.4	0.87	86	0.0334	55
LSMV 132 M	7.5	1455	49.4	2.78	4.7	14	0.89	87	0.035	55
LSMV 132 M	9	1460	58.8	3.14	6.5	16.8	0.88	88	0.0385	62

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 min⁻¹

+ Encoder 1024 points - 5 V
+ BK brake

+ Encoder 1024 points - 11/30 V
+ BK brake

Type	Rated power at 50 Hz P_N kW	IM 3001 (IM B5)		IM 3001 (IM B5)	
		Code	Qty	Code	Qty
LSMV 71	0.18		-		-
LSMV 71	0.25		-		-
LSMV 71	0.37		-		-
LSMV 80 L	0.55		-		-
LSMV 80 L	0.75	MM4 75 10F	2	4143521	2
LSMV 90 L	1.1	MM4 11 20F	2	4042830	2
LSMV 90 L	1.5	MM4 15 20F	2	4034315	2
LSMV 100 L	2.2	MM4 22 20F	2	3866569	2
LSMV 100 L	3	MM4 30 20F	2	4143522	2
LSMV 112 MG	4	MM4 40 20F	2	4143523	2
LSMV 132 SM	5.5	MM4 55 20F	2	4143524	2
LSMV 132 M	7.5	MM4 75 20F	2	4143525	2
LSMV 132 M	9	MM4 90 20F	2	4143526	2

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

4
poles
1500 min⁻¹

+ Forced ventilation + Encoder
1024 points - 5 V + BK brake

+ Forced ventilation + Encoder
1024 points - 11/30V + BK brake

Type	Rated power at 50 Hz P_N kW	IM 3001 (IM B5)		IM 3001 (IM B5)	
		Code	Qty	Code	Qty
LSMV 71	0.18		-		-
LSMV 71	0.25		-		-
LSMV 71	0.37		-		-
LSMV 80 L	0.55		-		-
LSMV 80 L	0.75	MM4 75 10K	2	4075940	2
LSMV 90 L	1.1	MM4 11 20K	2	4143529	2
LSMV 90 L	1.5	MM4 15 20K	2	4143531	2
LSMV 100 L	2.2	MM4 22 20K	2	4143532	2
LSMV 100 L	3	MM4 30 20K	2	4143621	2
LSMV 112 MG	4	MM4 40 20K	2	4136397	2
LSMV 132 SM	5.5	MM4 55 20K	2	4143631	2
LSMV 132 M	7.5	MM4 75 20K	2	4143634	2
LSMV 132 M	9	MM4 90 20K	2	4143640	2

Selection example :

Speed :	1500 min ⁻¹ - 4 poles
Power :	4 kW
Mounting and position :	IM 1001 (IM B3)
Supply voltage :	230/400 V
Option :	VF+Encoder 1024pts 5V + BK brake

Designation :

**4P LSMV 112 MG 4 kW IM 1001 (IM B3)
400 V Y VF + Encoder 1024 points 5 V
+ BK brake**

Code : MM4 40 20K

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

6
poles
1000 min⁻¹

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

Type	Rated power at 50 Hz P_N kW	Rated speed n_N min ⁻¹	Rated moment M_N N.m	Maximum torque / Rated torque M_{Max}/M_N N.m	No-load current I_o A	Rated current $I_N(400V)$ A	Power factor $\cos \varphi$ 100 %	Efficiency η 100 %	Moment of inertia J kg.m ²	Weight IM B3 kg
LSMV 90 S	0.75	930	7.8	2.7	1.58	2.1	0.77	68	0.0039	17
LSMV 90 L	1.1	915	11.4	2.6	2.1	3	0.75	70	0.0048	14
LSMV 100 L	1.5	905	15.8	2.8	3.4	4.2	0.74	70	0.0058	24
LSMV 112 M	2.2	905	22.6	2.6	4.2	5.8	0.76	72	0.0087	35
LSMV 132 S	3	945	30.6	2.5	3.6	7.1	0.78	81	0.0177	55
LSMV 132 M	4	960	40.8	2.8	5	9.3	0.75	84	0.0034	55
LSMV 132 M	5.5	960	56.3	2.7	7.6	13.7	0.71	84	0.0039	55
LSMV 160 M	7.5	968	74	2.14	8.3	16.2	0.79	85.2	0.084	81
LSMV 160 L	11	967	109	2.12	10.9	23.3	0.79	86.3	0.126	105
LSMV 180 LR	15	968	148	2.6	17.4	32	0.78	87	0.191	135
LSMV 200 LT	18.5	970	182	2.78	18.2	37.1	0.81	89	0.237	160
LSMV 200 L	22	975	216	2.72	20.4	44.4	0.8	89.9	0.287	190
LSMV 225 MR	30	971	295	2.6	26.1	60	0.8	89.9	0.38	235
LSMV 250 ME	37	980	361	2.5	30.1	71.1	0.81	93	0.85	305
LSMV 280 SC	45	979	439	2.7	37.6	86	0.81	93	1.87	405
LSMV 280 MC	55	977	538	2.6	42.8	104	0.82	92.6	2.3	480
LSMV 315 SP	75	980	731	3	59.9	140	0.83	93	2.99	660
LSMV 315 MP	90	980	877	2.9	59.8	165	0.84	93	3.63	760

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Selection

6
poles
1000 min⁻¹

IP 55 - 50 Hz - Class F - Mains 400 V - Motor coupling Y 400 V - S1

Type	Rated power at 50 Hz	IM 1001 (IM B3)	
	P_N kW	Code	Qty
LSMV 90 S	0.75		-
LSMV 90 L	1.1		-
LSMV 100 L	1.5		-
LSMV 112 M	2.2		-
LSMV 132 S	3		-
LSMV 132 M	4		-
LSMV 132 M	5.5		-
LSMV 160 M	7.5		-
LSMV 160 L	11		-
LSMV 180 LR	15		-
LSMV 200 LT	18.5		-
LSMV 200 L	22		-
LSMV 225 MR	30		-
LSMV 250 ME	37		-
LSMV 280 SC	45		-
LSMV 280 MC	55		-
LSMV 315 SP	75		-
LSMV 315 MP	90		-



Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Options

LSMV MOTORS WITH OPTIONS

Integration of LSMV motors within the process, sometimes requires their equipment with accessories that facilitate their use :

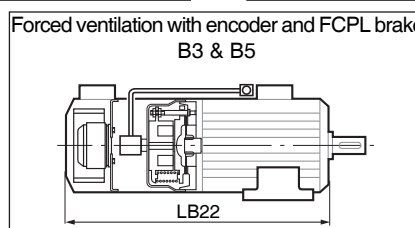
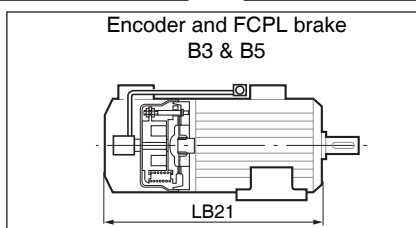
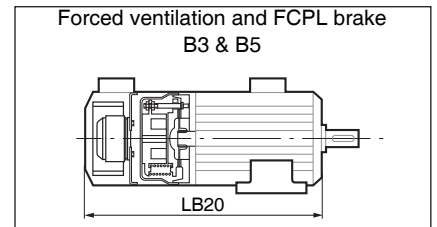
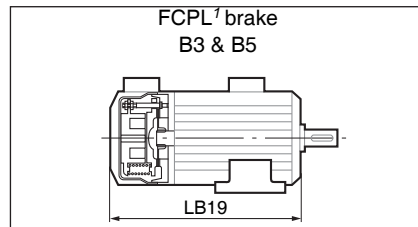
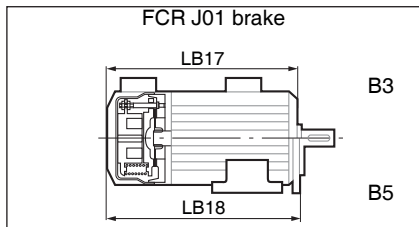
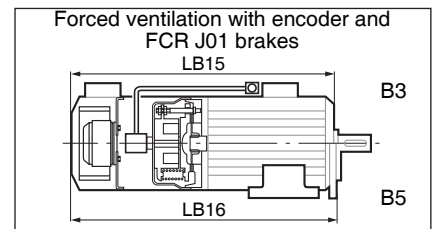
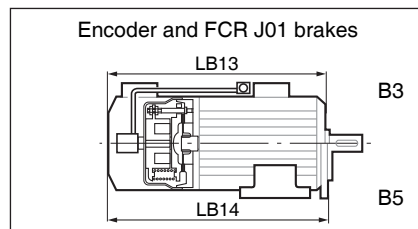
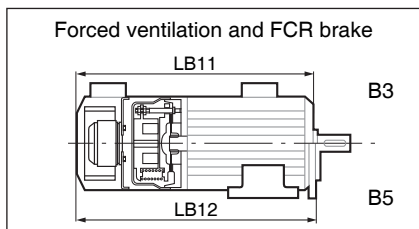
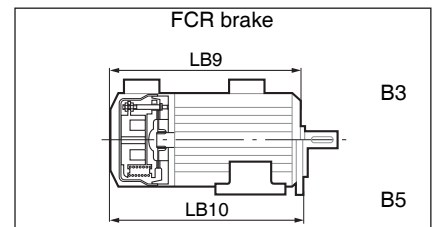
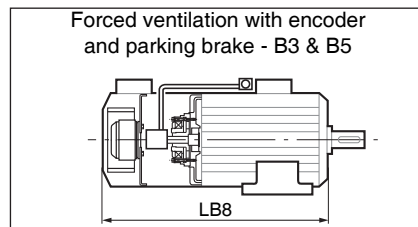
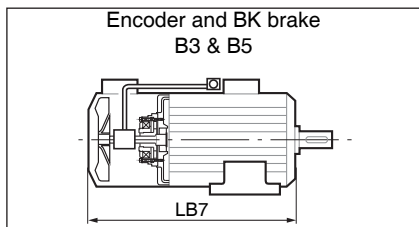
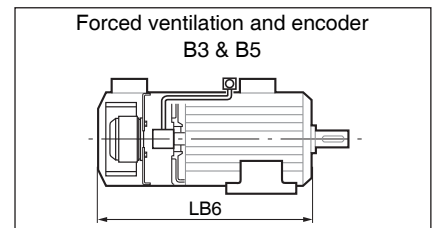
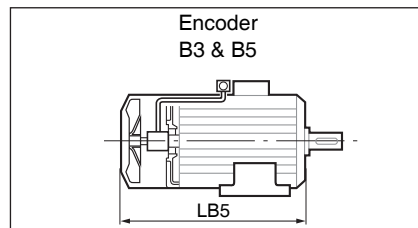
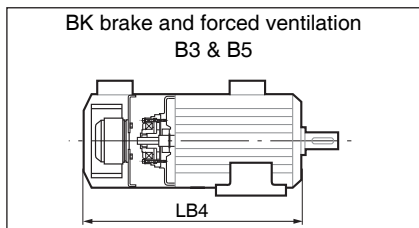
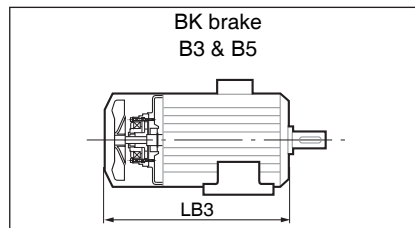
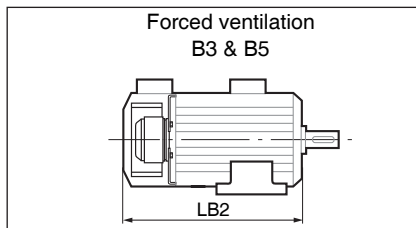
- forced ventilations for use of motors in low or high speed ;
- parking brakes to maintain the shaft in stop positions without having to leave the motor switched on ;

- emergency stop brakes to immobilize charges in case of fault of motor torque control or powered of due to supply mains fault ;
- the encoder which, providing digital information, allows to refine speed and positioning control.

All these options can be combined as shown in the table below.

Remarks :

- Without forced ventilation, possibility of overspeed with a balance class «S» ;
- Surveillance of motor temperature by incorporated probes at windings.



1. These options are selfventilated.

Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Options

Dimensions of enclosed 3-phase asynchronous LSMV motors - IP 55 with options Cage rotor

Type	LB ₂	LB ₃	LB ₄	LB ₅	LB ₆	LB ₇	LB ₈	LB ₉	LB ₁₀	LB ₁₁	LB ₁₂	LB ₁₃	LB ₁₄	LB ₁₅	LB ₁₆	LB ₁₇	LB ₁₈	LB ₁₉	LB ₂₀	LB ₂₁	LB ₂₂
LSMV 80 L	315	251	340	295	351	359	415	320	347	400	430	357	384	414	441	265	292	-	-	-	-
LSMV 90 S	311	276	335	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 90 L ¹	338	302	362	328	383	375	430	360	380	440	460	374	394	459	479	304	324	-	-	-	-
LSMV 100 L	380	354	395	376	431	440	495	442	478	535	570	535	571	601	637	-	-	-	-	-	-
LSMV 112 M	380	354	395	376	431	440	495	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 112 MG	429	380	455	396	443	459	497	478	477	540	570	526	555	599	628	-	-	-	-	-	-
LSMV 132 S	425	400	445	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 132 SM	462	447	482	461	499	535	573	572	612	660	700	617	657	706	746	-	-	-	-	-	-
LSMV 132 MU	○	○	○	486	524	560	598	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 160 MP	710	○	○	○	710	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 160 LR	710	○	○	575	710	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 160 M	687	-	-	549	687	-	-	-	-	-	-	-	-	-	-	-	-	670	755	670	755
LSMV 160 L	687	-	-	549	687	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 160 LU	702	-	-	564	702	-	-	-	-	-	-	-	-	-	-	-	-	685	770	685	770
LSMV 180 MU	769	-	-	629	769	-	-	-	-	-	-	-	-	-	-	-	-	771	824	851	904
LSMV 180 L	741	-	-	602	741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 180 LU	769	-	-	689	769	-	-	-	-	-	-	-	-	-	-	-	-	771	824	851	904
LSMV 200 LT	775	-	-	635	775	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 200 L	802	-	-	674	802	-	-	-	-	-	-	-	-	-	-	-	-	828,5	894,5	917,5	979,5
LSMV 225 SR	854	-	-	730	854	-	-	-	-	-	-	-	-	-	-	-	-	900	962	980	1042
LSMV 225 MR	854	-	-	730	854	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 225 MK/M	871	-	-	759	871	-	-	-	-	-	-	-	-	-	-	-	-	980	1046	1060	1126
LSMV 250 MP	916	-	-	804	916	-	-	-	-	-	-	-	-	-	-	-	-	1025	-	1105	-
LSMV 250 MT	916	-	-	804	916	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 280 SP	943	-	-	815	943	-	-	-	-	-	-	-	-	-	-	-	-	1057	-	1137	-
LSMV 280 MP	994	-	-	866	994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 280 MK	1075	-	-	959	1075	-	-	-	-	-	-	-	-	-	-	-	-	1228	-	1308	-
LSMV 315 SP/ST	1101	-	-	985	1101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LSMV 315 MR	1171	-	-	1055	1171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- : not available

○ : consult the factory

1. In B5 = LBn + 20 mm for LB 1 to LB 8 inclusive.

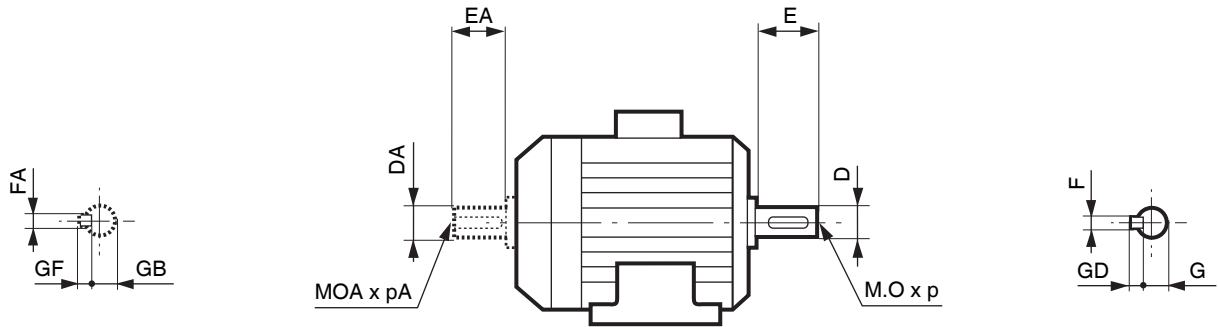
Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Dimensions

Dimensions of enclosed 3-phase asynchronous LSMV motors - IP 55 without options
Cage rotor

Dimensions in millimetres

– shaft end



Type	Main shaft end													
	4 and 6 poles							2 poles						
	F	GD	D	G	E	O	p	F	GD	D	G	E	O	p
LSMV 71	5	5	14j6	11	30	5	15	5	5	14j6	11	30	5	15
LSMV 80 L	6	6	19j6	15.5	40	6	16	6	6	19j6	15.5	40	6	16
LSMV 90 S/L/SL	8	7	24j6	20	50	8	19	8	7	24j6	20	50	8	19
LSMV 100 L	8	7	28j6	24	60	10	22	8	7	28j6	24	60	10	22
LSMV 112 M/MG	8	7	28j6	24	60	10	22	8	7	28j6	24	60	10	22
LSMV 132 S/SM/M	10	8	38k6	33	80	12	28	10	8	38k6	33	80	12	28
LSMV 160 MR/MP/M/L/LU	12	8	42k6	37	110	16	36							
LSMV 180 M/L/LU	14	9	48k6	42.5	110	16	36							
LSMV 200 LT/L	16	10	55m6	49	110	20	42							
LSMV 225 SR/MR/MG	18	11	60m6	53	140	20	42							
LSMV 250 ME	18	11	65m6	58	140	20	42							
LSMV 280 SD/SC/MC/MK	20	12	75m6	67.5	140	20	42							
LSMV 315 SP/MP/MR	22	14	80m6	71	170	20	42							

Type	Secondary shaft end													
	4 and 6 poles							2 poles						
	FA	GF	DA	GB	EA	OA	pA	FA	GF	DA	GB	EA	OA	pA
LSMV 71	5	5	14j6	11	30	5	15	5	5	14j6	11	30	5	15
LSMV 80 L	5	5	14j6	11	30	5	15	5	5	14j6	11	30	5	15
LSMV 90 S/L/SL	6	6	19j6	15.5	40	6	16	6	6	19j6	15.5	40	6	16
LSMV 100 L	8	7	24j6	20	50	8	19	8	7	24j6	20	50	8	19
LSMV 112 M/MG	8	7	24j6	20	50	8	19	8	7	24j6	20	50	8	19
LSMV 132 S/SM/M	8	7	28j6	24	60	10	22	8	7	28j6	24	60	10	22
LSMV 160 MR/MP/M/L/LU	12	8	42k6	37	110	16	36							
LSMV 180 M/L/LU	14	9	48k6	42.5	110	16	36							
LSMV 200 LT/L	16	10	55m6	49	110	20	42							
LSMV 225 SR/MR/MG	18	11	60m6	53	140	20	42							
LSMV 250 ME	18	11	60m6	53	140	20	42							
LSMV 280 SD/SC/MC/MK	18	11	65m6	58	140	20	42							
LSMV 315 SP/MP/MR	22	14	80m6	71	170	20	42							

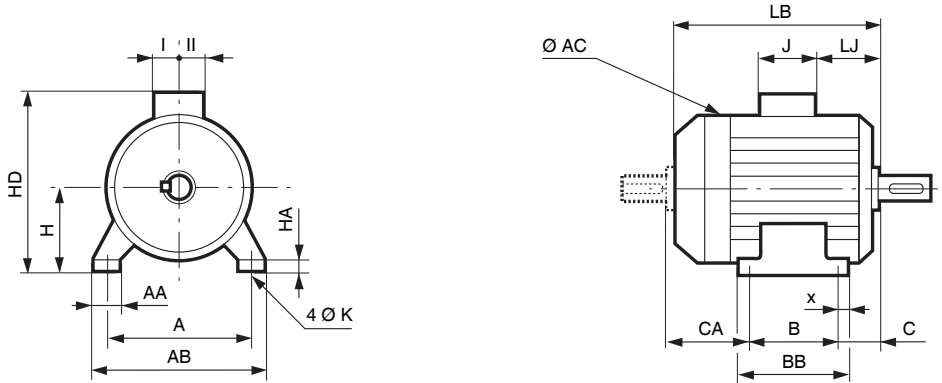
Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Dimensions

Dimensions of enclosed 3-phase asynchronous LSMV motors - IP 55 without options Cage rotor

Dimensions in millimetres

- feet mounting



Type	Main dimensions																	
	A	AB	B	BB	C	x	AA	K	HA	H	AC	HD	LB	LJ	J	I	II	CA
LSMV 71	112	126	90	106	45	7.5	24	7	9	71	140	170	193	26	86	43	43	61
LSMV 80 L	125	157	100	120	50	10	29	9	10	80	170	220	215	13.5	160	55	55	68
LSMV 90 L	140	172	125	162	56	28	37	10	11	90	190	240	245	13.5	160	55	55	68
LSMV 90 S	140	172	100	120	56	10	37	10	11	90	190	240	218	13.5	160	55	55	66
LSMV 90 SL	140	172	125	162	56	28	37	10	11	90	190	240	245	13.5	160	55	55	68
LSMV 100 L	160	196	140	165	63	12	40	12	13	100	200	255	290	14	160	55	55	93
LSMV 112 M	190	220	140	165	70	12	45	12	14	112	200	267	290	14.5	160	55	55	86
LSMV 112 MG	190	220	140	165	70	12	52	12	14	112	235	276	315	24	160	55	55	110
LSMV 132 M	216	250	178	208	89	16	59	12	18	132	280	314	387	25	160	55	55	126
LSMV 132 S	216	250	140	170	89	16	50	12	15	132	235	296	350	41	160	55	55	128
LSMV 132 SM	216	250	178	208	89	16	59	12	18	132	280	314	387	25	160	55	55	126
LSMV 160 L	254	294	254	294	108	20	60	14.5	25	160	316	395	495	44	134	92	63	138
LSMV 160 LU	254	294	254	294	108	20	60	14.5	25	160	316	395	510	44	134	92	63	153
LSMV 160 M	254	294	210	250	108	20	112	14	25	160	316	395	495	44	134	92	63	182
LSMV 160 MR	254	294	210	250	108	20	112	14	25	160	280	368	495	44	134	92	63	182
LSMV 160 MP	254	294	210	294	108	20	64	14.5	25	160	280	368	468	55.5	160	55	55	154
LSMV 180 L	279	339	279	329	121	25	86	14.5	25	180	350	435	552	54	205	100	95	159
LSMV 180 M	279	339	241	329	121	25	86	14.5	25	180	350	435	555	54	205	100	95	197
LSMV 180 LU	279	339	279	329	121	25	86	14.5	25	180	350	435	593	54	205	100	95	199
LSMV 200 L	318	388	305	375	133	35	103	18.5	36	200	390	475	621	60	205	100	95	194
LSMV 200 LT	318	378	305	365	133	30	108	18.5	32	200	350	450	599	60	205	100	95	167
LSMV 225 MR	356	431	311	386	149	50	127	18.5	36	225	390	500	676	74	205	100	95	228
LSMV 225 MG	356	420	311	375	149	30	65	18.5	30	225	479	629	810	68	292	148	180	385
LSMV 225 SR	356	431	286	386	149	50	127	18.5	36	225	390	500	676	74	205	100	95	253
LSMV 250 ME	406	470	349	420	168	35	90	24	36	250	479	655	810	68	292	148	180	303
LSMV 280 MK	457	533	419	495	190	40	85	24	35	280	586	746	921	99	292	148	180	328
LSMV 280 MC	457	520	419	478	190	35	90	24	35	280	479	685	810	68	292	148	180	211
LSMV 280 SD	457	520	368	478	190	35	90	24	35	280	479	685	870	68	292	148	180	322
LSMV 280 SC	457	520	368	478	190	35	90	24	35	280	479	685	810	68	292	148	180	262
LS 315 MP	508	594	457	537	216	40	114	28	70	315	586	781	947	125	292	148	180	290
LS 315 MR	508	594	457	537	216	40	114	28	70	315	586	781	1017	125	292	148	180	360
LS 315 SP	508	594	406	537	216	40	114	28	70	315	586	781	947	125	292	148	180	341

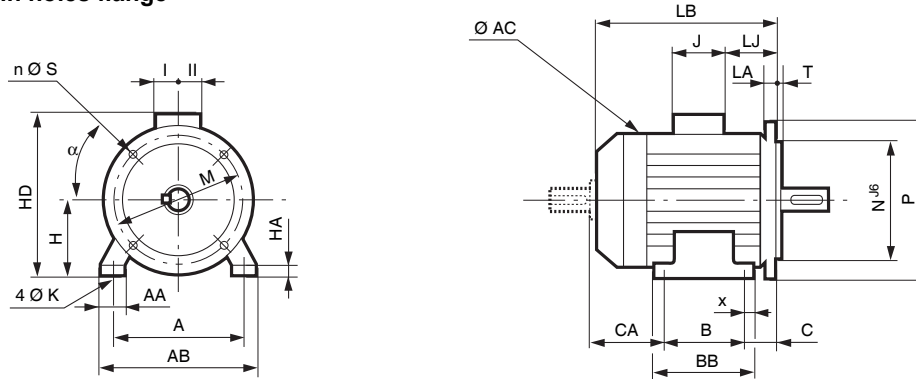
Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Dimensions

Dimensions of enclosed 3-phase asynchronous LSMV motors - IP 55 without options Cage rotor

Dimensions in millimetres

– (FF) foot and plain holes flange



Type	Main dimensions																	
	A	AB	B	BB	C	x	AA	K	HA	H	AC	HD	LB	LJ	J	I	II	Sym.
LSMV 71	112	126	90	106	45	7.5	24	7	9	71	140	170	193	26	86	43	43	FF 130
LSMV 80 L	125	157	100	120	50	10	29	9	10	80	170	220	215	13.5	160	55	55	FF 165
LSMV 90 L	140	172	125	162	56	28	37	10	11	90	190	240	265	33.5	160	55	55	FF 165
LSMV 90 S	140	172	100	120	56	10	37	10	11	90	190	240	238	33.5	160	55	55	FF 165
LSMV 90 SL	140	172	125	162	56	28	37	10	11	90	190	240	265	33.5	160	55	55	FF 165
LSMV 100 L	160	196	140	165	63	12	40	12	13	100	200	255	290	14	160	55	55	FF 215
LSMV 112 M	190	220	140	165	70	12	45	12	14	112	200	267	290	14.5	160	55	55	FF 215
LSMV 112 MG	190	220	140	165	70	12	52	12	14	112	235	276	315	24	160	55	55	FF 215
LSMV 132 M	216	250	178	208	89	16	59	12	18	132	280	314	387	25	160	55	55	FF 265
LSMV 132 S	216	250	140	170	89	16	50	12	15	132	235	296	350	41	160	55	55	FF 265
LSMV 132 SM	216	250	178	208	89	16	59	12	18	132	280	314	387	25	160	55	55	FF 265
LSMV 160 L	254	294	254	294	108	20	60	14.5	25	160	316	395	495	44	134	92	63	FF 300
LSMV 160 LU	254	294	254	294	108	20	60	14.5	25	160	316	395	510	44	134	92	63	FF 300
LSMV 160 M	254	294	210	250	108	20	112	14	25	160	316	395	495	44	134	92	63	FF 300
LSMV 160 MR	254	294	210	250	108	20	112	14	25	160	280	368	495	44	134	92	63	FF 300
LSMV 160 MP	254	294	210	294	108	20	64	14.5	25	160	280	368	468	55.5	160	55	55	FF 300
LSMV 180 L	279	339	279	329	121	25	86	14.5	25	180	350	435	552	54	205	100	95	FF 300
LSMV 180 LU	279	339	279	329	121	25	86	14.5	25	180	350	435	593	54	205	100	95	FF 300
LSMV 180 M	279	339	241	329	121	25	86	14.5	25	180	350	435	555	54	205	100	95	FF 300
LSMV 200 L	318	388	305	375	133	35	103	18.5	36	200	390	475	621	60	205	100	95	FF 350
LSMV 200 LT	318	378	305	365	133	30	108	18.5	32	200	350	450	599	60	205	100	95	FF 350
LSMV 225 MR	356	431	311	386	149	50	127	18.5	36	225	390	500	676	74	205	100	95	FF 400
LSMV 225 SR	356	431	286	386	149	50	127	18.5	36	225	390	500	676	74	205	100	95	FF 400
LSMV 225 MG	356	420	311	375	149	30	65	18.5	30	225	479	629	810	68	292	148	180	FF 400
LSMV 250 ME	406	470	349	420	168	35	90	24	36	250	479	655	810	68	292	148	180	FF 500
LSMV 280 MK	457	533	419	495	190	40	85	24	35	280	586	746	921	99	292	148	180	FF 500
LSMV 280 MC	457	520	419	478	190	35	90	24	35	280	479	685	810	68	292	148	180	FF 500
LSMV 280 SP	457	520	368	480	190	77	95	24	39	280	510	696	785	64	292	148	180	FF 500
LSMV 280 SC	457	520	368	478	190	35	90	24	35	280	479	685	810	68	292	148	180	FF 500
LSMV 315 MP	508	594	457	537	216	40	114	28	70	315	586	781	951	125	292	148	180	FF 600
LSMV 315 MR	508	594	457	537	216	40	114	28	70	315	586	781	1021	125	292	148	180	FF 600
LSMV 315 SP	508	594	406	537	216	40	114	28	70	315	586	781	951	125	292	148	180	FF 600

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

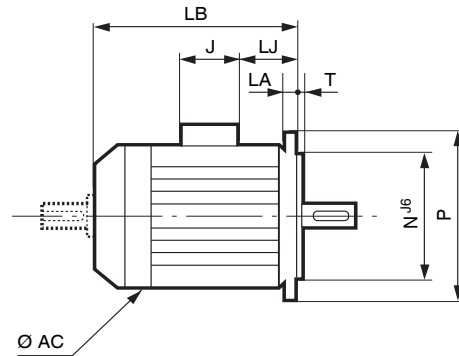
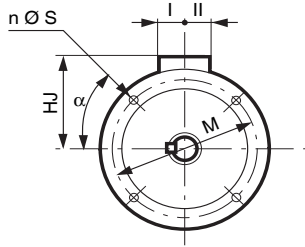
Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Dimensions

Dimensions of enclosed 3-phase asynchronous LSMV motors - IP 55 without options Cage rotor

Dimensions in millimetres

– (FF) plain holes flange mounted



IEC symbol	Flange dimensions							
	M	N	P	T	n	α	S	LA
FF 130	130	110	160	3.5	4	45	10	10
FF 165	165	130	200	3.5	4	45	12	10
FF 165	165	130	200	3.5	4	45	12	10
FF 165	165	130	200	3.5	4	45	12	10
FF 165	165	130	200	3.5	4	45	12	10
FF 215	215	180	250	4	4	45	14.5	12
FF 215	215	180	250	4	4	45	14.5	12
FF 215	215	180	250	4	4	45	14.5	12
FF 265	265	230	300	4	4	45	14.5	14
FF 265	265	230	300	4	4	45	14.5	14
FF 265	265	230	300	4	4	45	14.5	14
FF 300	300	250	350	5	4	45	18.5	14
FF 300	300	250	350	5	4	45	18.5	14
FF 300	300	250	350	5	4	45	18.5	14
FF 300	300	250	350	5	4	45	18.5	14
FF 300	300	250	350	5	4	45	18.5	14
FF 300	300	250	350	5	4	45	18.5	14
FF 300	300	250	350	5	4	45	18.5	14
FF 350	350	300	400	5	4	45	18.5	15
FF 350	350	300	400	5	4	45	18.5	15
FF 400	400	350	450	5	8	22.5	18.5	16
FF 400	400	350	450	5	8	22.5	18.5	16
FF 400	400	350	450	5	8	22.5	18.5	16
FF 500	500	450	550	5	8	22.5	18.5	18
FF 500	500	450	550	5	8	22.5	18.5	18
FF 500	500	450	550	5	8	22.5	18.5	18
FF 500	500	450	550	5	8	22.5	18.5	18
FF 600	600	550	660	6	8	22.5	24	22
FF 600	600	550	660	6	8	22.5	24	22
FF 600	600	550	660	6	8	22.5	24	22

Type	Main dimensions						
	AC	LB	HJ	LJ	J	I	II
LSMV 71	140	193	99	26	86	43	43
LSMV 80 L	170	215	140	13.5	160	55	55
LSMV 90 L	190	265	150	33.5	160	55	55
LSMV 90 S	190	238	150	33.5	160	55	55
LSMV 90 SL	190	265	150	33.5	160	55	55
LSMV 100 L	200	290	155	14	160	55	55
LSMV 112 M	200	290	155	14.5	160	55	55
LSMV 112 MG	235	315	164	24	160	55	55
LSMV 132 M	280	387	182	25	160	55	55
LSMV 132 S	235	350	182	41	160	55	55
LSMV 132 SM	280	387	182	25	160	55	55
LSMV 160 L	316	495	235	44	134	92	63
LSMV 160 LU	316	510	235	44	134	92	63
LSMV 160 M	316	495	235	44	134	92	63
LSMV 160 MP	280	468	208	55.5	160	55	55
LSMV 160 MR	280	495	208	44	134	92	63
LSMV 180 L	350	552	255	54	205	100	95
LSMV 180 LU	350	593	255	54	205	100	95
LSMV 180 M	350	555	255	54	205	100	95
LSMV 200 L	390	621	275	60	205	100	95
LSMV 200 LT	350	599	250	60	205	100	95
LSMV 225 MG	479	810	405	68	292	148	180
LSMV 225 MR	390	676	275	74	205	100	95
LSMV 225 SR	390	676	275	74	205	100	95
LSMV 250 ME	479	810	405	68	292	148	180
LSMV 280 MK	586	921	466	99	292	148	180
LSMV 280 MP	510	836	416	115	292	148	180
LSMV 280 SD	479	870	405	68	292	148	180
LSMV 280 SP	510	785	416	64	292	148	180
LSMV 315 MP	586	951	466	125	292	148	180
LSMV 315 MR	586	1021	466	125	292	148	180
LSMV 315 SP	586	951	466	125	292	148	180

The form of the IM 3001 (IM B5) motor stops at the frame size 225.
Shaft end dimensions identical to those of foot mounted motors.

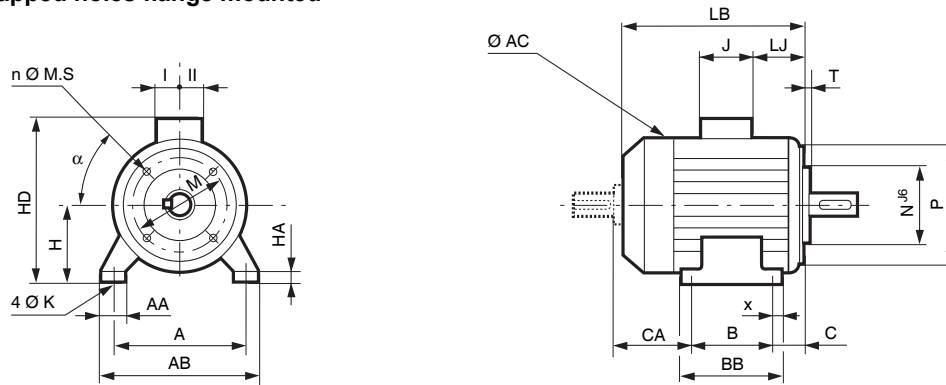
Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Dimensions

Dimensions of enclosed 3-phase asynchronous LSMV motors - IP 55 without options Cage rotor

Dimensions in millimetres

– (FT) foot and tapped holes flange mounted



Main dimensions

Type	A	AB	B	BB	C	x	AA	K	HA	H	AC	HD	LB	LJ	J	I	II	Sym.
LSMV 71	112	126	90	106	45	7.5	24	7	9	71	140	170	193	26	86	43	43	FT 85
LSMV 80 L	125	157	100	120	50	10	29	9	10	80	170	220	215	13.5	160	55	55	FT 100
LSMV 90 L	140	172	125	162	56	28	37	10	11	90	190	240	245	13.5	160	55	55	FT 115
LSMV 90 S	140	172	100	120	56	10	37	10	11	90	190	240	218	13.5	160	55	55	FT 115
LSMV 90 SL	140	172	125	162	56	28	37	10	11	90	190	240	245	13.5	160	55	55	FT 115
LSMV 100 L	160	196	140	165	63	12	40	12	13	100	200	255	290	14	160	55	55	FT 130
LSMV 112 M	190	220	140	165	70	12	45	12	14	112	200	267	290	14.5	160	55	55	FT 130
LSMV 112 MG	190	220	140	165	70	12	52	12	14	112	235	276	315	24	160	55	55	FT 130
LSMV 132 M	216	250	178	208	89	16	59	12	18	132	280	314	387	25	160	55	55	FT 215
LSMV 132 S	216	250	140	170	89	16	50	12	15	132	235	296	350	41	160	55	55	FT 215
LSMV 132 SM	216	250	178	208	89	16	59	12	18	132	280	314	387	25	160	55	55	FT 215
LSMV 160 MR	254	294	210	250	108	20	112	14	25	160	280	368	495	44	134	92	63	FT 265
LSMV 160 MP	254	294	210	294	108	20	64	15	25	160	280	368	468	55.5	160	55	55	FT 265

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

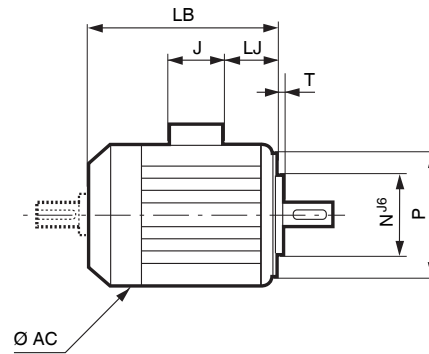
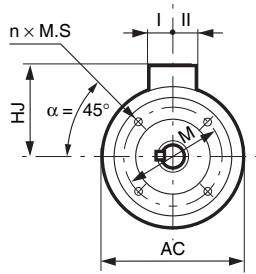
Enclosed three-phase asynchronous motors driven by electronic drive LSMV

Dimensions

Dimensions of enclosed 3-phase asynchronous LSMV motors - IP 55 without options Cage rotor

Dimensions in millimetres

– (FT) tapped hole flange mounted



IEC symbol	Flange dimensions					
	M	N	P	T	n	MS
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 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 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
LSMV 71	140	193	99	26	86	43	43
LSMV 80 L	170	215	140	13,5	160	55	55
LSMV 90 L	190	245	150	13,5	160	55	55
LSMV 90 S	190	218	150	13,5	160	55	55
LSMV 90 SL	190	245	150	13,5	160	55	55
LSMV 100 L	200	290	155	14	160	55	55
LSMV 112 M	200	290	155	14,5	160	55	55
LSMV 112 MG	235	315	164	24	160	55	55
LSMV 132 M	280	387	182	25	160	55	55
LSMV 132 S	235	350	164	41	160	55	55
LSMV 132 SM	280	387	182	25	160	55	55
LSMV 160 MP	280	468	208	55,5	160	55	55
LSMV 160 MR	280	495	208	44	134	92	63

Shaft ends dimensions identical to those of foot mounted motors.

