

# 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 :  $\geq 160$  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.

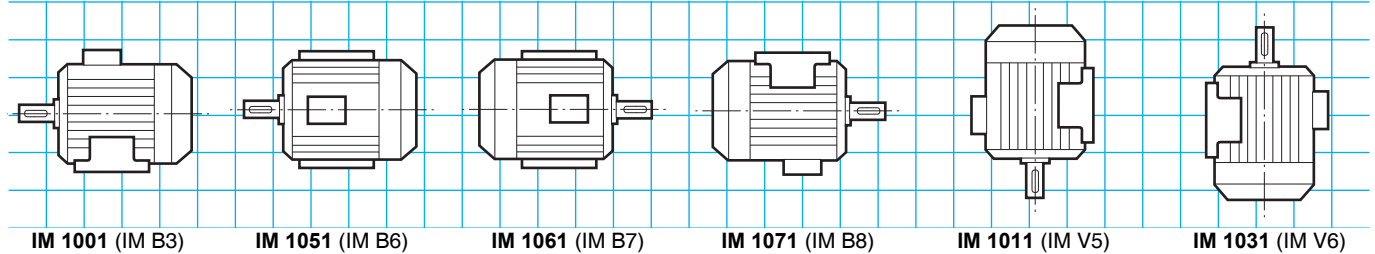
## Description of LSMV 3-phase motors

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

# Enclosed three-phase asynchronous motors driven by electronic drive LSMV

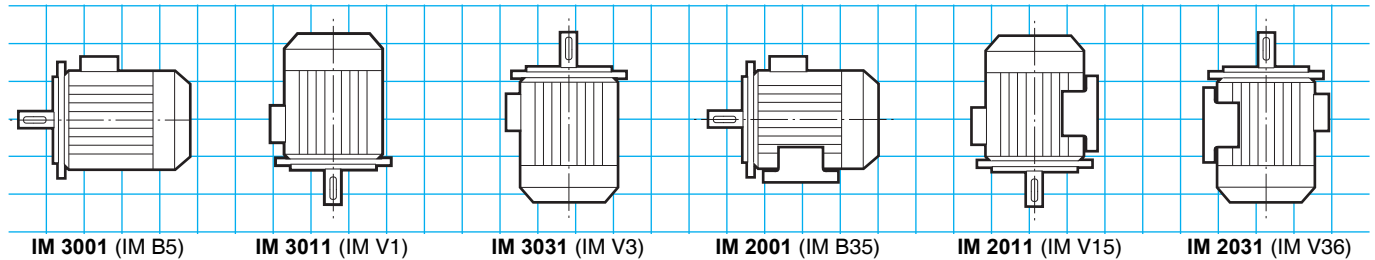
## Mounting positions

### Foot mounted motors



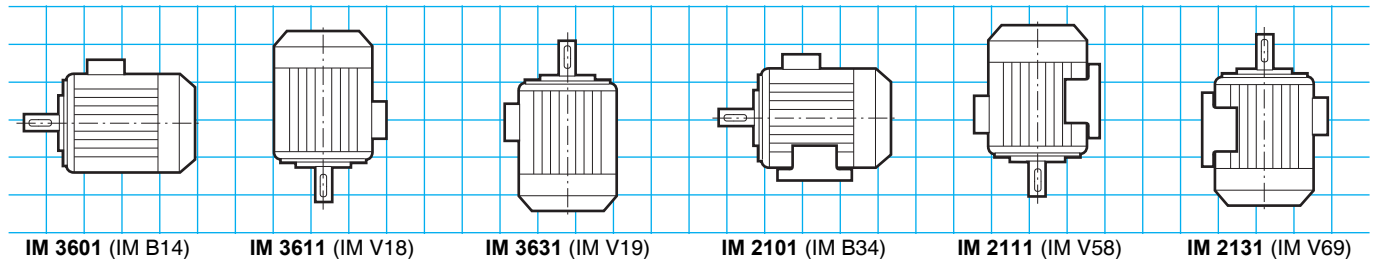
### (FF) plain hole flange mounted motors

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



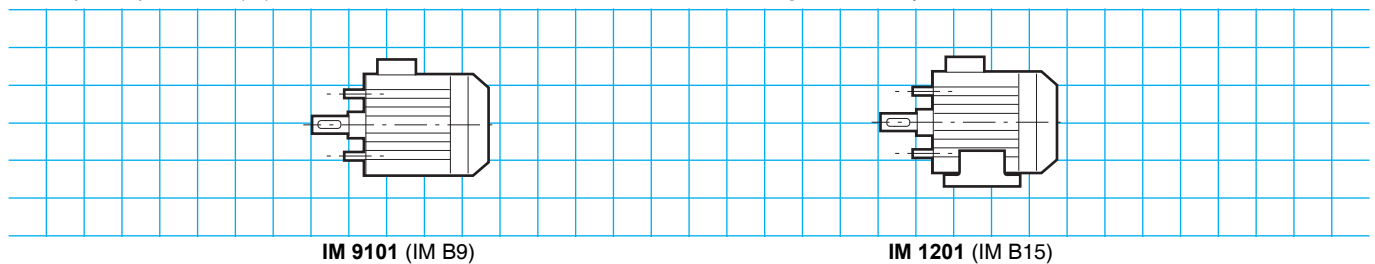
### (FT) tapped hole flange mounted motors

- Possible positions up to 132 frame size included

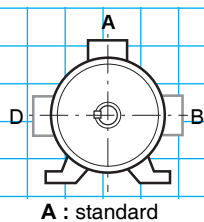


### Motors without frontal bearing

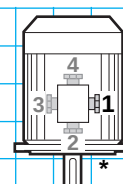
**Note :** plated protection (IP) of motors IM B9 and IM B15 is ensured when mounting the motor by the customer.



### 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.

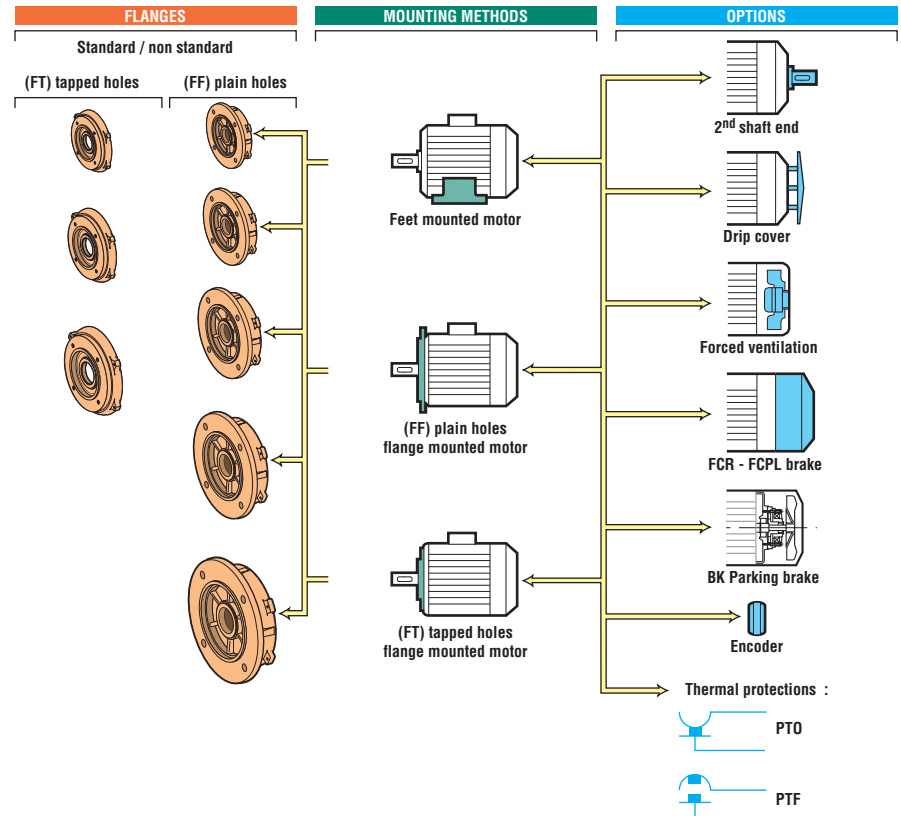
For other variants or any special adaptation, consult the technical specialists at Leroy-Somer.

 **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

|                                     |             |                        |                     |               |                               |                      |                        |                        |
|-------------------------------------|-------------|------------------------|---------------------|---------------|-------------------------------|----------------------|------------------------|------------------------|
| <b>4P</b><br>1500 min <sup>-1</sup> | <b>LSMV</b> | <b>100</b>             | <b>L</b>            | <b>2.2 kW</b> | <b>IM 1001</b><br>(IM B3)     | <b>230 / 400 V</b>   | <b>50 Hz</b>           | <b>IP 55</b>           |
| 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<sup>-1</sup>,  
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.

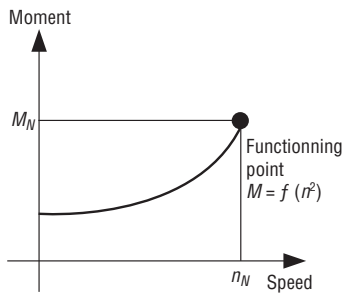
# Enclosed three-phase asynchronous motors driven by electronic drive LSMV

## 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  $\leq 132$ , class R for frame size  $\geq 160$

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

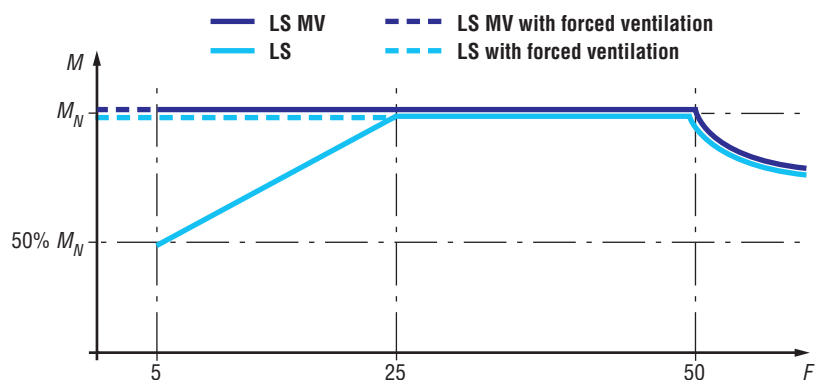
Thanks to a particular conception of the active magnetic side, these motors can responds to most restricting applications : low speed rated torque, even zero.

#### • 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.

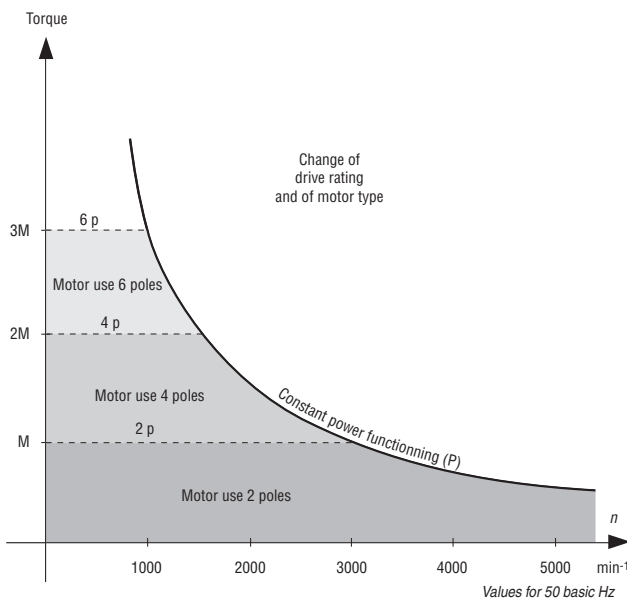
### Features thermal torque / speed of LS and LSMV ranges



### 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.

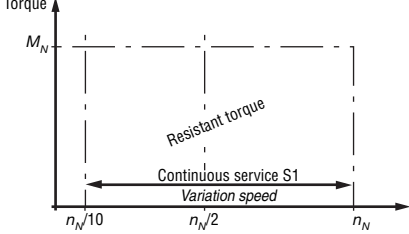
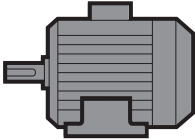
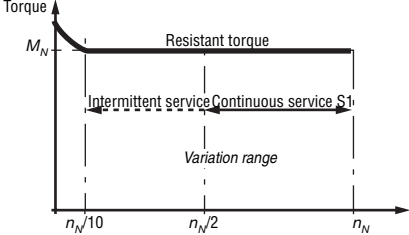
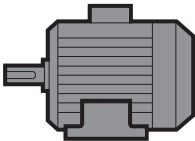
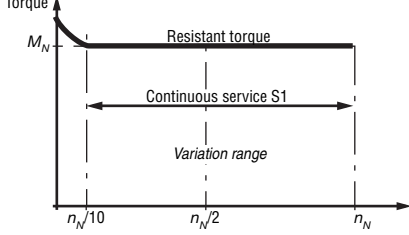
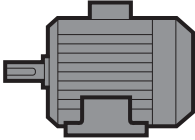
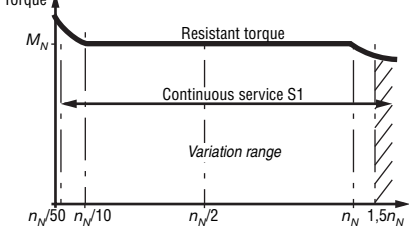
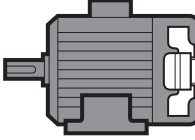
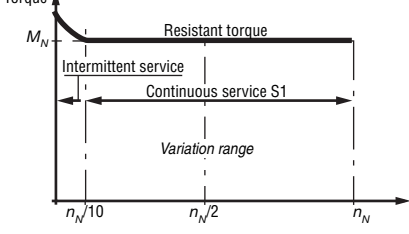
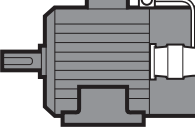
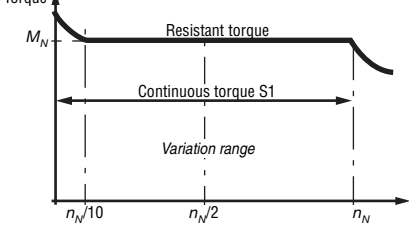
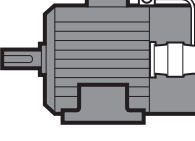
#### Brake :

| 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

|                                                                      |                                                                                                                                                                                                                              |                                                                                                                                                                       |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Centrifugal<br/>use<br/>or quadratic<br/>resistant<br/>torque</b> |  <p><math>n_N</math> = rated speed</p> <p>Use on resistant torques depending on the speed for <math>f &lt; 50</math> Hz</p>                 |  <p>LS motor <math>\leq 22</math> kW<br/>Derated motor <math>&gt; 30</math> kW</p> |
| <b>General<br/>use<br/>or constant<br/>resistant<br/>torque</b>      |  <p>Use on a speed range from 25 to 50 Hz (1 to 2) in continuous service (S1)</p>                                                           |  <p>LS motor <math>\leq 22</math> kW<br/>Derated motor <math>&gt; 30</math> 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 : <math>&lt; 5</math> Hz and <math>&gt; 70</math> Hz</p>                                              |  <p>LSMV motor with forced ventilation</p>                                       |
|                                                                      |  <p>Use :<br/>- from 0 to 50 Hz with a range of 0 to 5 Hz in intermittent service<br/>- with great speed and torque dynamics accuracy</p> |  <p>LSMV motor with encoder</p>                                                  |
|                                                                      |  <p>Use :<br/>- from 0 to 50 Hz with a range from 0 to 5 Hz in continuous service<br/>- 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<sup>-1</sup>

| Type        | Output power | Rated torque | Torques for speeds (min <sup>-1</sup> )<br>N.m |     |      |      |      |      |      |      |      |      |
|-------------|--------------|--------------|------------------------------------------------|-----|------|------|------|------|------|------|------|------|
|             | kW           | $M_N$<br>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<sup>-1</sup>

| Type        | Output power | Rated torque | Torques for speeds (min <sup>-1</sup> )<br>N.m |      |      |      |      |      |      |      |      |      |      |
|-------------|--------------|--------------|------------------------------------------------|------|------|------|------|------|------|------|------|------|------|
|             | kW           | $M_N$<br>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<sup>-1</sup>

| Type        | Output power | Rated torque          | Torques for speeds (min <sup>-1</sup> ) |     |      |      |      |      |      |      |      |
|-------------|--------------|-----------------------|-----------------------------------------|-----|------|------|------|------|------|------|------|
|             |              |                       | N.m                                     |     |      |      |      |      |      |      |      |
|             | kW           | M <sub>N</sub><br>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<sup>-1</sup>

| Type        | Output power<br>kW | Rated torque<br>$M_N$<br>N.m | Torques for speeds (min <sup>-1</sup> )<br>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 L   | 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<sup>-1</sup>

| Type        | Output<br>power | Rated<br>torque<br><br>$M_N$<br>N.m | Torques for speeds (min <sup>-1</sup> )<br>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<sup>-1</sup>

| Type        | Output power | Rated torque | Torques for speeds (min <sup>-1</sup> ) |       |       |       |       |      |      |      |      |      |      |
|-------------|--------------|--------------|-----------------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|
|             |              |              | N.m                                     |       |       |       |       |      |      |      |      |      |      |
|             | kW           | $M_N$<br>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<sup>-1</sup>

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | Rated speed<br>$n_N$<br>min <sup>-1</sup> | Rated moment<br>$M_N$<br>N.m | Maximum torque /<br>Rated torque<br>$M_{Max}/M_N$<br>N.m | No-load<br>current<br>$I_o$<br>A | Rated current<br>$I_N (400V)$<br>A | Power<br>factor<br>$\cos \varphi$<br>100 % | Efficiency<br>$\eta$<br>100 % | Moment of inertia<br>$J$<br>kg.m <sup>2</sup> | Weight<br>IM B3<br>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



| Type        | Rated<br>power<br>at 50 Hz | IM 1001<br>(IM B3) |     | IM 3001<br>(IM B5) |     |
|-------------|----------------------------|--------------------|-----|--------------------|-----|
|             | $P_N$<br>kW                | 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<sup>-1</sup>

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | Rated speed<br>$n_N$<br>min <sup>-1</sup> | Rated moment<br>$M_N$<br>N.m | Maximum torque /<br>Rated torque<br>$M_{Max}/M_N$<br>N.m | No-load<br>current<br>$I_o$<br>A | Rated<br>current<br>$I_N (400V)$<br>A | Power<br>factor<br>$\cos \varphi$<br>100 % | Efficiency<br>$\eta$<br>100 % | Moment of inertia<br>$J$<br>kg.m <sup>2</sup> | Weight<br>IM B3<br>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<sup>-1</sup>

LS MV without option

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | IM 1001<br>(IM B3) | Qty | IM 3001<br>(IM B5) | 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 <sup>-1</sup> - 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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | Rated speed<br>$n_N$<br>min <sup>-1</sup> | Rated moment<br>$M_N$<br>N.m | Maximum torque /<br>Rated torque<br>$M_{Max}/M_N$<br>N.m | No-load<br>current<br>$I_0$<br>A | Rated current<br>$I_N (400V)$<br>A | Power<br>factor<br>$\cos \varphi$<br>100 % | Efficiency<br>$\eta$<br>100 % | Moment of inertia<br>$J$<br>kg.m <sup>2</sup> | Weight<br>IM B3<br>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<sup>-1</sup>

**+ Forced ventilation**

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | IM 1001<br>(IM B3) | Qty | IM 3001<br>(IM B5) | 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 <sup>-1</sup> - 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



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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | Rated speed<br>$n_N$<br>min <sup>-1</sup> | Rated moment<br>$M_N$<br>N.m | Maximum torque /<br>Rated torque<br>$M_{Max}/M_N$<br>N.m | No-load<br>current<br>$I_o$<br>A | Rated current<br>$I_N (400V)$<br>A | Power<br>factor<br>$\cos \varphi$<br>100 % | Efficiency<br>$\eta$<br>100 % | Moment of inertia<br>$J$<br>kg.m <sup>2</sup> | Weight<br>IM B3<br>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<sup>-1</sup>

+ Encoder 1024 points - 5 V

+ Encoder 1024 points - 11/30 V

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | IM 1001<br>(IM B3) |     | IM 3001<br>(IM B5) |     | IM 1001<br>(IM B3) |     | IM 3001<br>(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 <sup>-1</sup> - 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



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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | Rated speed<br>$n_N$<br>min <sup>-1</sup> | Rated moment<br>$M_N$<br>N.m | Maximum torque /<br>Rated torque<br>$M_{Max}/M_N$<br>N.m | No-load<br>current<br>$I_o$<br>A | Rated current<br>$I_N (400V)$<br>A | Power<br>factor<br>$\cos \varphi$<br>100 % | Efficiency<br>$\eta$<br>100 % | Moment of inertia<br>$J$<br>kg.m <sup>2</sup> | Weight<br>IM B3<br>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

**4**  
poles  
1500 min<sup>-1</sup>

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

+ Forced ventilation  
+ Encoder 1024 points - 5 V

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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | IM 1001<br>(IM B3) |     | IM 3001<br>(IM B5) |     | IM 1001<br>(IM B3) |     | IM 3001<br>(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 <sup>-1</sup> - 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



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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | Rated speed<br>$n_N$<br>min <sup>-1</sup> | Rated moment<br>$M_N$<br>N.m | Maximum torque /<br>Rated torque<br>$M_{Max}/M_N$<br>N.m | No-load<br>current<br>$I_o$<br>A | Rated current<br>$I_N (400V)$<br>A | Power<br>factor<br>$\cos \varphi$<br>100 % | Efficiency<br>$\eta$<br>100 % | Moment of inertia<br>$J$<br>kg.m <sup>2</sup> | Weight<br>IM B3<br>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                    |



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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | Rated speed<br>$n_N$<br>min <sup>-1</sup> | Rated moment<br>$M_N$<br>N.m | Maximum torque /<br>Rated torque<br>$M_{Max}/M_N$<br>N.m | No-load<br>current<br>$I_o$<br>A | Rated current<br>$I_N (400V)$<br>A | Power<br>factor<br>$\cos \varphi$<br>100 % | Efficiency<br>$\eta$<br>100 % | Moment of inertia<br>$J$<br>kg.m <sup>2</sup> | Weight<br>IM B3<br>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<sup>-1</sup>

**+ Encoder 1024 points - 5 V  
+ BK brake**

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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | IM 3001<br>(IM B5) | 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<sup>-1</sup>

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

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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | IM 3001<br>(IM B5) | 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 <sup>-1</sup> - 4 poles    |
| Power :                 | 4 kW                                |
| Mounting and position : | IM 1001 (IM B3)                     |
| Supply voltage :        | 230/400 V                           |
| Option :                | VF+Encoder 1024pts 5V<br>+ 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



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

| Type        | Rated power<br>at 50 Hz<br>$P_N$<br>kW | Rated speed<br>$n_N$<br>min <sup>-1</sup> | Rated moment<br>$M_N$<br>N.m | Maximum torque /<br>Rated torque<br>$M_{Max}/M_N$<br>N.m | No-load<br>current<br>$I_o$<br>A | Rated current<br>$I_N (400V)$<br>A | Power<br>factor<br>$\cos \varphi$<br>100 % | Efficiency<br>$\eta$<br>100 % | Moment of inertia<br>$J$<br>kg.m <sup>2</sup> | Weight<br>IM B3<br>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



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

| Type        | Rated<br>power<br>at 50 Hz | IM 1001<br>(IM B3) |     |
|-------------|----------------------------|--------------------|-----|
|             | $P_N$<br>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 :

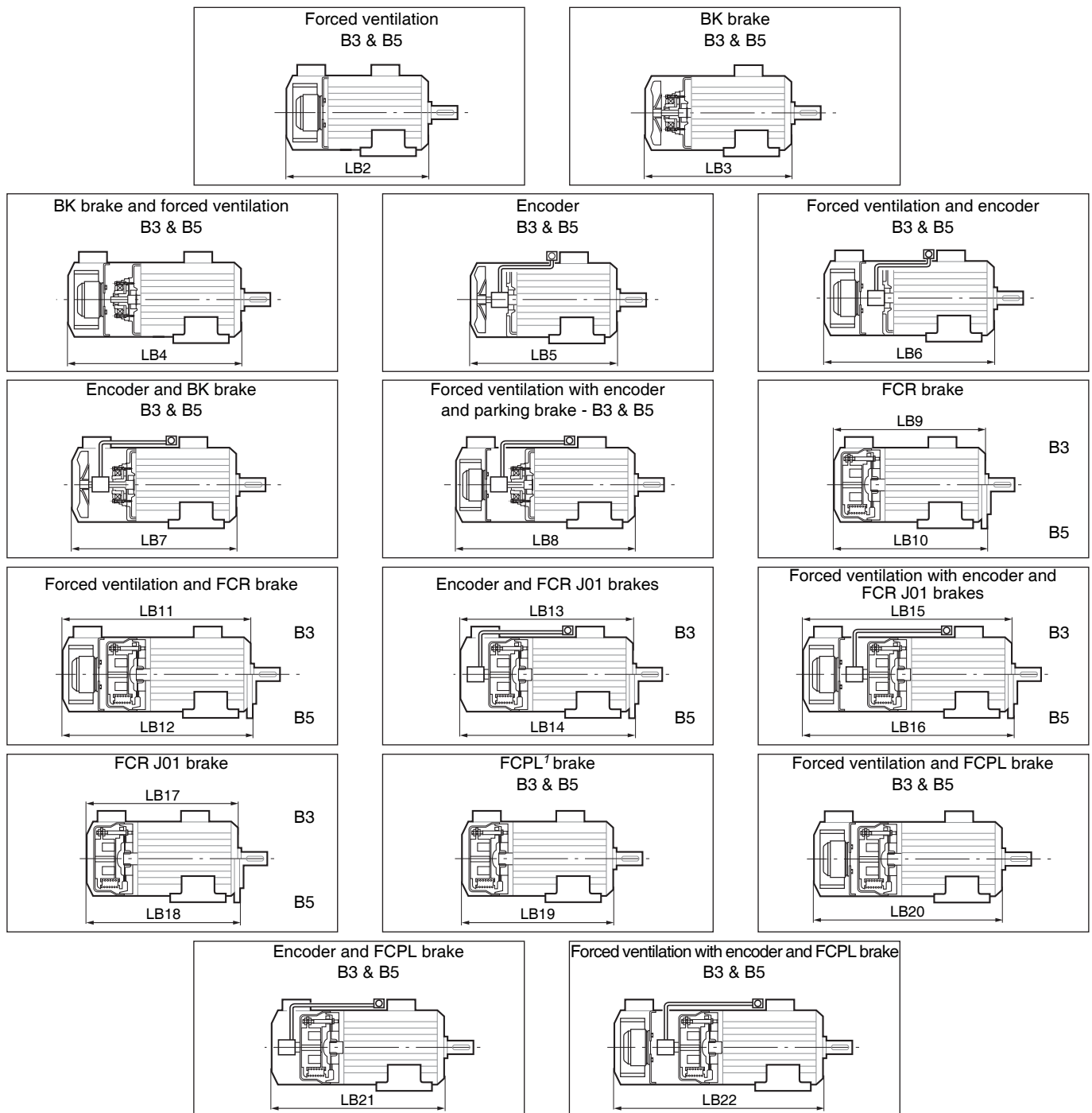
- forced ventilations for use of motors in low or high speed ;
- parking brakes to maintain the shaft in stop positions without having to leave the motor switched on ;

- 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 <sub>2</sub> | LB <sub>3</sub> | LB <sub>4</sub> | LB <sub>5</sub> | LB <sub>6</sub> | LB <sub>7</sub> | LB <sub>8</sub> | LB <sub>9</sub> | LB <sub>10</sub> | LB <sub>11</sub> | LB <sub>12</sub> | LB <sub>13</sub> | LB <sub>14</sub> | LB <sub>15</sub> | LB <sub>16</sub> | LB <sub>17</sub> | LB <sub>18</sub> | LB <sub>19</sub> | LB <sub>20</sub> | LB <sub>21</sub> | LB <sub>22</sub> |
|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 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 <sup>1</sup> | 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.

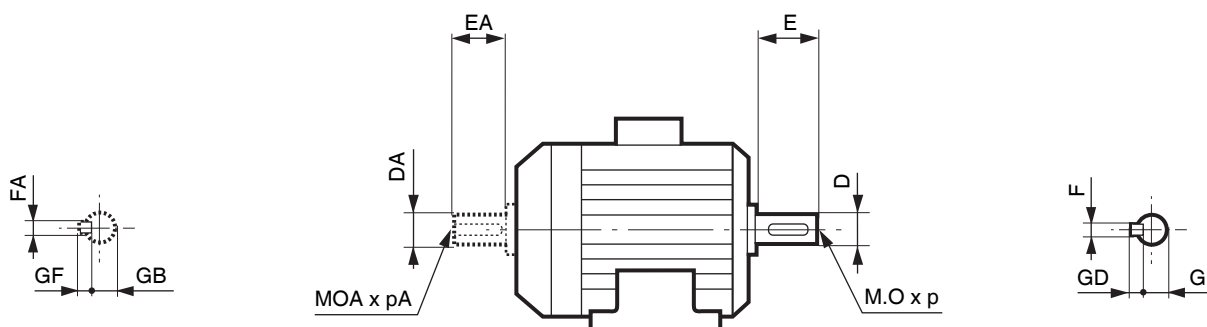
# Enclosed three-phase asynchronous motors driven by electronic drive LSMV

## Dimensions

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

Dimensions in millimetres

– shaft end



### Main shaft end

| Type                  | 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 |         |    |      |      |    |    |    |

### Secondary shaft end

| Type                  | 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 |         |    |      |      |    |    |    |

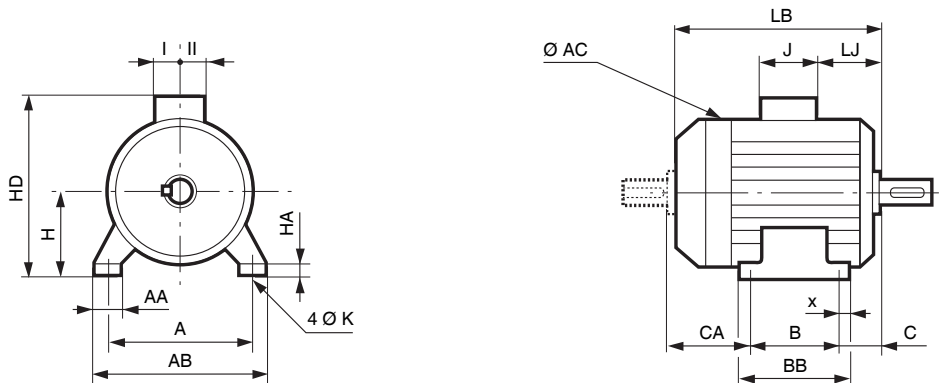
# Enclosed three-phase asynchronous motors driven by electronic drive LSMV

## 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

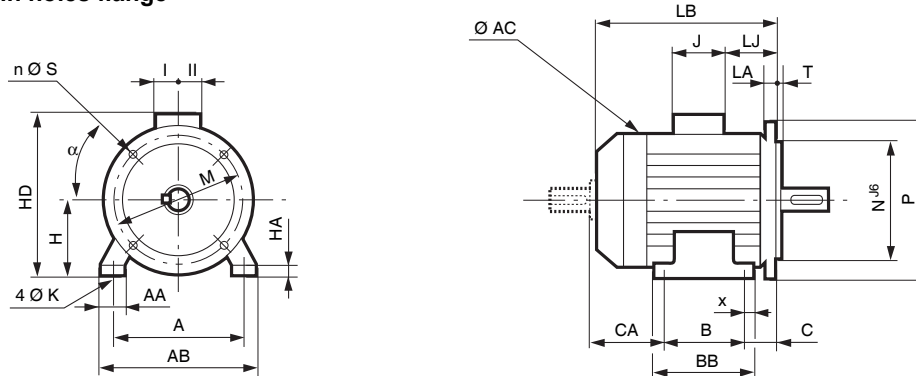
## Dimensions

### 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.

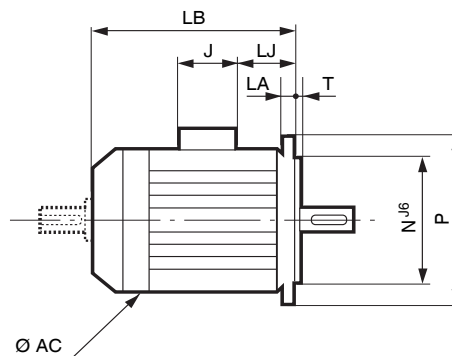
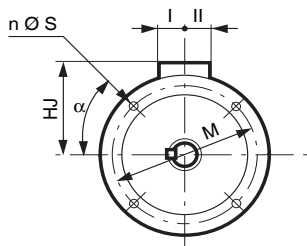
# Enclosed three-phase asynchronous motors driven by electronic drive LSMV

## 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 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 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.

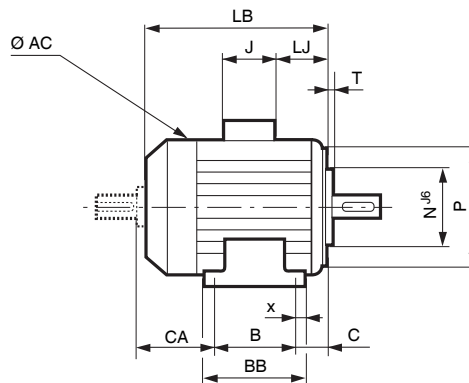
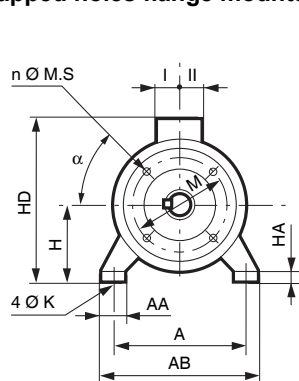
# Enclosed three-phase asynchronous motors driven by electronic drive LSMV

## 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



| 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 | 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.

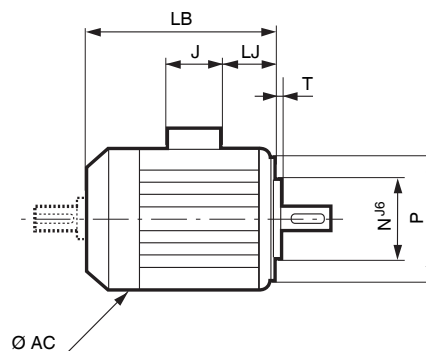
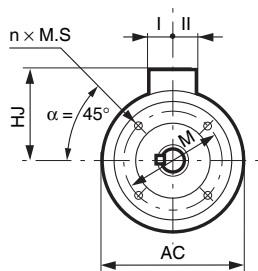
# Enclosed three-phase asynchronous motors driven by electronic drive LSMV

## Dimensions

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

Dimensions in millimetres

– (FT) tapped hole flange mounted



| IEC<br>symbol | Flange dimensions |     |     |     |   |     |
|---------------|-------------------|-----|-----|-----|---|-----|
|               | M                 | N   | P   | T   | n | MS  |
| <b>FT 85</b>  | 85                | 70  | 105 | 2.5 | 4 | M6  |
| <b>FT 100</b> | 100               | 80  | 120 | 3   | 4 | M6  |
| <b>FT 115</b> | 115               | 95  | 140 | 3   | 4 | M8  |
| <b>FT 115</b> | 115               | 95  | 140 | 3   | 4 | M8  |
| <b>FT 115</b> | 115               | 95  | 140 | 3   | 4 | M8  |
| <b>FT 130</b> | 130               | 110 | 160 | 3.5 | 4 | M8  |
| <b>FT 130</b> | 130               | 110 | 160 | 3.5 | 4 | M8  |
| <b>FT 130</b> | 130               | 110 | 160 | 3.5 | 4 | M8  |
| <b>FT 215</b> | 215               | 180 | 250 | 4   | 4 | M12 |
| <b>FT 215</b> | 215               | 180 | 250 | 4   | 4 | M12 |
| <b>FT 215</b> | 215               | 180 | 250 | 4   | 4 | M12 |
| <b>FT 265</b> | 265               | 230 | 300 | 4   | 4 | M12 |
| <b>FT 265</b> | 265               | 230 | 300 | 4   | 4 | M12 |

| Type               | Main dimensions |     |     |      |     |    |    |
|--------------------|-----------------|-----|-----|------|-----|----|----|
|                    | AC              | LB  | HJ  | LJ   | J   | I  | II |
| <b>LSMV 71</b>     | 140             | 193 | 99  | 26   | 86  | 43 | 43 |
| <b>LSMV 80 L</b>   | 170             | 215 | 140 | 13,5 | 160 | 55 | 55 |
| <b>LSMV 90 L</b>   | 190             | 245 | 150 | 13,5 | 160 | 55 | 55 |
| <b>LSMV 90 S</b>   | 190             | 218 | 150 | 13,5 | 160 | 55 | 55 |
| <b>LSMV 90 SL</b>  | 190             | 245 | 150 | 13,5 | 160 | 55 | 55 |
| <b>LSMV 100 L</b>  | 200             | 290 | 155 | 14   | 160 | 55 | 55 |
| <b>LSMV 112 M</b>  | 200             | 290 | 155 | 14,5 | 160 | 55 | 55 |
| <b>LSMV 112 MG</b> | 235             | 315 | 164 | 24   | 160 | 55 | 55 |
| <b>LSMV 132 M</b>  | 280             | 387 | 182 | 25   | 160 | 55 | 55 |
| <b>LSMV 132 S</b>  | 235             | 350 | 164 | 41   | 160 | 55 | 55 |
| <b>LSMV 132 SM</b> | 280             | 387 | 182 | 25   | 160 | 55 | 55 |
| <b>LSMV 160 MP</b> | 280             | 468 | 208 | 55,5 | 160 | 55 | 55 |
| <b>LSMV 160 MR</b> | 280             | 495 | 208 | 44   | 134 | 92 | 63 |

Shaft ends dimensions identical to those of foot mounted motors.

