

# Squirrel-cage motors

## 1LG · Cast iron housing · Basic version

### Selection and ordering data

| Rated output                                                        | Size  | Order No.                                                                  | Operating data at rated output |                      |          |                   |                        |              | Starting torque                                      | Starting current | Stalling torque | Torque class | Moment of inertia J | Weight                 |
|---------------------------------------------------------------------|-------|----------------------------------------------------------------------------|--------------------------------|----------------------|----------|-------------------|------------------------|--------------|------------------------------------------------------|------------------|-----------------|--------------|---------------------|------------------------|
|                                                                     |       | Order No. supplement for voltage and type of construction, see table below | Rated speed                    | Efficiency $\eta$ at |          | Power factor p.f. | Rated current at 400 V | Rated torque | For direct-on-line starting as multiple of the rated |                  |                 | KL           | kg m <sup>2</sup>   | Type of constr. IM B 3 |
|                                                                     |       |                                                                            |                                | 4/4-load             | 3/4-load |                   |                        | torque       | current                                              | torque           | approx. kg      |              |                     |                        |
| kW                                                                  |       |                                                                            | rpm                            | %                    | %        |                   | A                      | Nm           |                                                      |                  |                 |              |                     |                        |
| Energy-saving motor, IP55 degree of protection, temperature class F |       |                                                                            |                                |                      |          |                   |                        |              |                                                      |                  |                 |              |                     |                        |
|                                                                     |       | 1000 rpm, 6-pole, 50 Hz                                                    |                                |                      |          |                   |                        |              |                                                      |                  |                 |              |                     |                        |
| 15                                                                  | 180 L | 1LG6 186-6AA ..                                                            | 975                            | 90.9                 | 91.7     | 0.81              | 29.5                   | 147          | 2.4                                                  | 5.5              | 2.5             | 16           | 0.20                | 175                    |
| 18.5<br>22                                                          | 200 L | 1LG6 206-6AA ..                                                            | 978                            | 91.2                 | 91.8     | 0.81              | 36.0                   | 181          | 2.4                                                  | 5.6              | 2.4             | 16           | 0.29                | 210                    |
|                                                                     |       | 1LG6 207-6AA ..                                                            | 978                            | 91.9                 | 92.5     | 0.82              | 42.0                   | 215          | 2.4                                                  | 5.6              | 2.4             | 16           | 0.36                | 240                    |
| 30                                                                  | 225 M | 1LG6 223-6AA ..                                                            | 980                            | 93.2                 | 93.7     | 0.83              | 56.0 <sup>1)</sup>     | 292          | 2.8                                                  | 6.5              | 2.9             | 16           | 0.63                | 325                    |
| 37                                                                  | 250 M | 1LG6 253-6AA ..                                                            | 985                            | 93.7                 | 94.1     | 0.83              | 69.0                   | 359          | 2.9                                                  | 6.8              | 2.5             | 16           | 0.93                | 405                    |
| 45<br>55                                                            | 280 S | 1LG6 280-6AA ..                                                            | 988                            | 94.4                 | 94.6     | 0.85              | 81.0                   | 435          | 3.0                                                  | 6.8              | 2.7             | 16           | 1.40                | 520                    |
|                                                                     | 280 M | 1LG6 283-6AA ..                                                            | 988                            | 94.6                 | 94.8     | 0.85              | 99.0                   | 532          | 3.3                                                  | 7.3              | 2.9             | 16           | 1.60                | 570                    |
| 75                                                                  | 315 S | 1LG6 310-6AA ..                                                            | 990                            | 95.0                 | 95.0     | 0.83              | 138                    | 723          | 2.8                                                  | 7.3              | 3.0             | 16           | 2.5                 | 760                    |
| 90                                                                  | 315 M | 1LG6 313-6AA ..                                                            | 990                            | 95.3                 | 95.4     | 0.85              | 160                    | 868          | 2.7                                                  | 7.3              | 2.9             | 16           | 3.2                 | 935                    |
| 110                                                                 | 315 L | 1LG6 316-6AA ..                                                            | 990                            | 95.6                 | 95.7     | 0.85              | 196                    | 1061         | 2.9                                                  | 7.4              | 2.9             | 16           | 4.0                 | 1010                   |
| 132                                                                 | 315 L | 1LG6 317-6AA ..                                                            | 990                            | 95.8                 | 95.8     | 0.85              | 235                    | 1273         | 3.1                                                  | 7.8              | 3.1             | 16           | 4.7                 | 1180                   |
| 160                                                                 | 315 L | 1LG6 318-6AA ..                                                            | 990                            | 95.8                 | 95.9     | 0.86              | 280                    | 1543         | 3.2                                                  | 7.8              | 3.1             | 16           | 5.4                 | 1245                   |
|                                                                     |       | 750 rpm, 8-pole, 50 Hz                                                     |                                |                      |          |                   |                        |              |                                                      |                  |                 |              |                     |                        |
| 11                                                                  | 180 L | 1LG6 186-8AB ..                                                            | 725                            | 88.7                 | 89.6     | 0.76              | 23.5                   | 145          | 1.9                                                  | 4.6              | 2.2             | 13           | 0.210               | 165                    |
| 15                                                                  | 200 L | 1LG6 207-8AB ..                                                            | 725                            | 89.3                 | 89.8     | 0.80              | 30.5                   | 198          | 2.3                                                  | 5.3              | 2.6             | 13           | 0.370               | 235                    |
| 18.5<br>22                                                          | 225 S | 1LG6 220-8AB ..                                                            | 730                            | 91.1                 | 91.8     | 0.81              | 36.0                   | 242          | 2.3                                                  | 5.6              | 2.6             | 13           | 0.550               | 295                    |
|                                                                     | 225 M | 1LG6 223-8AB ..                                                            | 730                            | 91.6                 | 92.1     | 0.81              | 43.0                   | 288          | 2.4                                                  | 5.8              | 2.8             | 13           | 0.660               | 335                    |
| 30                                                                  | 250 M | 1LG6 253-8AB ..                                                            | 735                            | 92.8                 | 93.3     | 0.82              | 57.0                   | 390          | 2.5                                                  | 6.0              | 2.8             | 13           | 1.10                | 435                    |
| 37                                                                  | 280 S | 1LG6 280-8AB ..                                                            | 738                            | 93.1                 | 93.3     | 0.81              | 71.0                   | 479          | 2.3                                                  | 5.7              | 2.3             | 13           | 1.40                | 510                    |
| 45                                                                  | 280 M | 1LG6 283-8AB ..                                                            | 738                            | 93.7                 | 94.0     | 0.81              | 86.0                   | 582          | 2.6                                                  | 6.1              | 2.5             | 13           | 1.60                | 560                    |
| 55                                                                  | 315 S | 1LG6 310-8AB ..                                                            | 740                            | 94.3                 | 94.4     | 0.82              | 102                    | 710          | 2.5                                                  | 6.3              | 2.9             | 13           | 2.5                 | 750                    |
| 75                                                                  | 315 M | 1LG6 313-8AB ..                                                            | 740                            | 94.5                 | 94.7     | 0.83              | 138                    | 968          | 2.5                                                  | 6.7              | 2.9             | 13           | 3.1                 | 840                    |
| 90                                                                  | 315 L | 1LG6 316-8AB ..                                                            | 740                            | 94.7                 | 95.1     | 0.84              | 164                    | 1161         | 2.4                                                  | 6.3              | 2.8             | 13           | 3.9                 | 1005                   |
| 110                                                                 | 315 L | 1LG6 317-8AB ..                                                            | 740                            | 94.8                 | 95.1     | 0.84              | 200                    | 1420         | 2.4                                                  | 6.4              | 2.6             | 13           | 4.5                 | 1100                   |
| 132                                                                 | 315 L | 1LG6 318-8AB ..                                                            | 740                            | 94.9                 | 95.2     | 0.84              | 240                    | 1704         | 2.5                                                  | 6.7              | 2.9             | 13           | 5.3                 | 1270                   |

### Order No. supplements

| Motor type           | Penultimate position: Voltage identifier |                 |        |        |        |       |  | Final position: Type of construction identifier |                  |                                 |                              |         |
|----------------------|------------------------------------------|-----------------|--------|--------|--------|-------|--|-------------------------------------------------|------------------|---------------------------------|------------------------------|---------|
|                      | 50 Hz                                    |                 |        | 60 Hz  |        |       |  | IM B 3                                          | Price supplement |                                 |                              |         |
|                      | 230 VΔ / 400 VY                          | 400 VΔ / 690 VY | 500 VY | 500 VΔ | 460 VY | 460 V |  |                                                 | IM B 5           | IM V 1 Without protective cover | IM V 1 With protective cover | IM B 35 |
| 1LG6 186 to 1LG6 313 | 1                                        | 6               | 3      | 5      | 1      | 6     |  | 0                                               | 1                | 1                               | 4                            | 6       |
| 1LG6 316 to 1LG6 318 | –                                        | 6               | –      | 5      | –      | 6     |  | 0                                               | –                | 8                               | 4                            | 6       |

Other voltage and/or frequency, voltage identifier "9".  
Order codes are required for this purpose (see "Technical information", "Voltages, currents and frequencies").

For other types of construction, see "Technical information", "Types of construction".

1) For connection to 230 V, parallel supply cables are required (see "Technical information", "Connections, circuits and terminal blocks").