

| Rated output at                                                                                                                            |                          | Frame size | Operating characteristics at rated output |                          |                                                     |                                |                                  |                              |                              | Order No.                                                                       | Price | Weight                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|-------------------------------------------|--------------------------|-----------------------------------------------------|--------------------------------|----------------------------------|------------------------------|------------------------------|---------------------------------------------------------------------------------|-------|------------------------------------|
| 50 Hz                                                                                                                                      | 60 Hz                    |            | Rated speed at 50 Hz                      | Rated torque at 50 Hz    | Relevant for IE changeover                          |                                |                                  |                              |                              | For Order No. supplements for voltage and type of construction, see table below |       | IM B3 type of construction approx. |
| $P_{\text{rated}}$<br>kW                                                                                                                   | $P_{\text{rated}}$<br>kW | FS         | $n_{\text{rated}}$<br>rpm                 | $M_{\text{rated}}$<br>Nm | Efficiency Class according to IEC 60034-30 standard | Efficiency at 50 Hz 100 %-load | Power factor at 50 Hz 100 %-load | Rated current at 50 Hz 400 V | Rated current at 50 Hz 690 V |                                                                                 |       |                                    |
|                                                                                                                                            |                          |            |                                           |                          |                                                     | $\eta_{\text{rated}}$<br>%     | $\cos\varphi_{\text{rated}}$     | $I_{\text{rated}}$<br>A      | $I_{\text{rated}}$<br>A      |                                                                                 |       | $m$<br>kg                          |
| 2-pole, 3000 rpm at 50 Hz, 3600 rpm at 60 Hz, temperature class 155 (F), used acc. to temperature class 130 (B), IP23 degree of protection |                          |            |                                           |                          |                                                     |                                |                                  |                              |                              |                                                                                 |       |                                    |
| 315                                                                                                                                        | 345                      | 315        | 2974                                      | 1010                     | IE2 <sup>1)</sup>                                   | 95.6                           | 0.92                             | 520                          | 300                          | 1LL8 315-2AC□□                                                                  |       | 1300                               |
| 400                                                                                                                                        | 440                      | 315        | 2974                                      | 1280                     |                                                     | 95.9                           | 0.92                             | 650                          | 380                          | 1LL8 317-2AC□□                                                                  |       | 1500                               |
| 450                                                                                                                                        | –                        | 355        | 2978                                      | 1440                     |                                                     | 95.9                           | 0.91                             | 740                          | 430                          | 1LL8 353-2AD□□                                                                  |       | 1900                               |
| 500                                                                                                                                        | –                        | 355        | 2979                                      | 1600                     |                                                     | 96.1                           | 0.92                             | 820                          | 475                          | 1LL8 355-2AD□□                                                                  |       | 2000                               |
| 630                                                                                                                                        | –                        | 355        | 2980                                      | 2020                     |                                                     | 96.4                           | 0.93                             | 1020                         | 590                          | 1LL8 357-2AD□□                                                                  |       | 2200                               |
| 710                                                                                                                                        | –                        | 400        | 2984                                      | 2270                     |                                                     | 96.5                           | 0.91                             | 1160                         | 680                          | 1LL8 403-2AD□□                                                                  |       | 2800                               |
| 800                                                                                                                                        | –                        | 400        | 2984                                      | 2560                     |                                                     | 96.6                           | 0.92                             | 1300                         | 750                          | 1LL8 405-2AD□□                                                                  |       | 3000                               |
| 900                                                                                                                                        | –                        | 400        | 2985                                      | 2880                     |                                                     | 96.8                           | 0.92                             | –                            | 850                          | 1LL8 407-2AD□□                                                                  |       | 3200                               |
| 1000                                                                                                                                       | –                        | 450        | 2987                                      | 3200                     |                                                     | 96.8                           | 0.93                             | –                            | 930                          | 1LL8 453-2AE□□                                                                  |       | 4000                               |
| 1120                                                                                                                                       | –                        | 450        | 2986                                      | 3580                     |                                                     | 96.8                           | 0.94                             | –                            | 1020                         | 1LL8 455-2AE□□                                                                  |       | 4200                               |
| 1250                                                                                                                                       | –                        | 450        | 2986                                      | 4000                     |                                                     | 97.0                           | 0.94                             | –                            | 1140                         | 1LL8 457-2AE□□                                                                  |       | 4400                               |
| 4-pole, 1500 rpm at 50 Hz, 1800 rpm at 60 Hz, temperature class 155 (F), used acc. to temperature class 130 (B), IP23 degree of protection |                          |            |                                           |                          |                                                     |                                |                                  |                              |                              |                                                                                 |       |                                    |
| 315                                                                                                                                        | 360                      | 315        | 1483                                      | 2030                     | IE2 <sup>1)</sup>                                   | 95.5                           | 0.87                             | 550                          | 315                          | 1LL8 315-4AC□□                                                                  |       | 1300                               |
| 400                                                                                                                                        | 460                      | 315        | 1484                                      | 2570                     |                                                     | 95.7                           | 0.88                             | 690                          | 395                          | 1LL8 317-4AC□□                                                                  |       | 1500                               |
| 450                                                                                                                                        | 515                      | 355        | 1487                                      | 2890                     |                                                     | 96.0                           | 0.87                             | 780                          | 450                          | 1LL8 353-4AC□□                                                                  |       | 1900                               |
| 500                                                                                                                                        | 575                      | 355        | 1487                                      | 3210                     |                                                     | 96.1                           | 0.88                             | 850                          | 495                          | 1LL8 355-4AC□□                                                                  |       | 2000                               |
| 630                                                                                                                                        | 725                      | 355        | 1488                                      | 4040                     |                                                     | 96.4                           | 0.88                             | 1080                         | 620                          | 1LL8 357-4AC□□                                                                  |       | 2200                               |
| 710                                                                                                                                        | 815                      | 400        | 1489                                      | 4550                     |                                                     | 96.4                           | 0.88                             | 1200                         | 700                          | 1LL8 403-4AC□□                                                                  |       | 2800                               |
| 800                                                                                                                                        | 920                      | 400        | 1490                                      | 5130                     |                                                     | 96.5                           | 0.88                             | –                            | 790                          | 1LL8 405-4AC□□                                                                  |       | 3000                               |
| 900                                                                                                                                        | 1035                     | 400        | 1491                                      | 5760                     |                                                     | 96.7                           | 0.87                             | –                            | 900                          | 1LL8 407-4AC□□                                                                  |       | 3200                               |
| 1000                                                                                                                                       | 1150                     | 450        | 1492                                      | 6400                     |                                                     | 96.7                           | 0.86                             | –                            | 1000                         | 1LL8 453-4AD□□                                                                  |       | 4000                               |
| 1120                                                                                                                                       | 1280                     | 450        | 1491                                      | 7170                     |                                                     | 96.7                           | 0.89                             | –                            | 1080                         | 1LL8 455-4AD□□                                                                  |       | 4200                               |
| 1250                                                                                                                                       | 1430                     | 450        | 1490                                      | 8010                     |                                                     | 96.8                           | 0.89                             | –                            | 1220                         | 1LL8 457-4AD□□                                                                  |       | 4400                               |

A service factor (SF) of 1.05 is stamped onto all 1LL8 motors for mains-fed operation.

Note:  
Efficiencies according to IEC 60034-2-1: 2007; load-dependent additional losses are determined from statistical evaluation of measurements.

## Order No. supplements

| Motor type                                 | Penultimate position: Voltage code |          |                 |                                                           | Final position: Type of construction code |                                               |                                           |                 |
|--------------------------------------------|------------------------------------|----------|-----------------|-----------------------------------------------------------|-------------------------------------------|-----------------------------------------------|-------------------------------------------|-----------------|
|                                            | 400 VΔ/690 VY                      | 500 VΔ   | 690 VΔ          | 60 Hz 460 VΔ<br>(see "Introduction" for outputs at 60 Hz) | Without flange<br>IM B3                   | With flange<br>IM V1 without protective cover | IM V1 with protective cover <sup>2)</sup> | IM B35          |
|                                            | <b>6</b>                           | <b>5</b> | <b>0</b>        | <b>9 L2F</b>                                              | <b>0</b>                                  | <b>8</b>                                      | <b>4</b>                                  | <b>6</b>        |
| 1LL8 315- ... □□<br>to<br>1LL8 317- ... □□ | □                                  | ○        | – <sup>3)</sup> | ○                                                         | □                                         | ✓                                             | ✓                                         | ✓               |
| 1LL8 353- ... □□<br>to<br>1LL8 405- ... □□ | □                                  | ○        | – <sup>3)</sup> | ○                                                         | □ <sup>4)</sup>                           | ✓ <sup>4)</sup>                               | ✓ <sup>4)</sup>                           | ✓ <sup>4)</sup> |
| 1LL8 407- ... □□<br>to<br>1LL8 457- ... □□ | –                                  | ○        | □               | O. R.                                                     | □ <sup>4)</sup>                           | ✓ <sup>4)</sup>                               | ✓ <sup>4)</sup>                           | ✓ <sup>4)</sup> |

- Standard version
- Without additional charge
- ✓ With additional charge
- O. R. Possible on request
- Not possible

Order other voltages with voltage code **9** in the penultimate position and the corresponding order code (see "Special versions" in the "Options" under "Voltages").

Voltages or frequencies that are not covered by the predefined options can be ordered with order code **L1Y**. In this case, the output, voltage and frequency must be specified.

<sup>1)</sup> Efficiency class IE3 on request.  
<sup>2)</sup> The "Second shaft extension" option, order code **K16** is not possible.  
<sup>3)</sup> As special version with voltage code **"9"** and order code **L1Y** (specify output, voltage and frequency).  
<sup>4)</sup> Not possible for 2-pole motors in 60 Hz version.

| Order No.                                                                                                                                  | Locked-<br>rotor<br>torque                                                | Locked-<br>rotor<br>current | Break-<br>down<br>torque | Torque<br>class | Moment<br>of inertia    | Noise at rated output                                    |                               | Mech. limit<br>speed    | Parallel feeders<br>required |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------|-------------------------|----------------------------------------------------------|-------------------------------|-------------------------|------------------------------|-------|-------|
|                                                                                                                                            | At 50 Hz and for direct online starting<br>as multiple of rated<br>torque |                             |                          |                 |                         | Measuring<br>surface sound<br>pressure level<br>at 50 Hz | Sound power<br>level at 50 Hz |                         |                              |       |       |
|                                                                                                                                            | $T_{LR}/T_{rated}$                                                        | $I_{LR}/I_{rated}$          | $T_B/T_{rated}$          | CL              | $J$<br>kgm <sup>2</sup> | $L_{pA}$<br>dB(A)                                        | $L_{WA}$<br>dB(A)             | $\eta_{max.}$<br>rpm    | 400 V                        | 500 V | 690 V |
| 2-pole, 3000 rpm at 50 Hz, 3600 rpm at 60 Hz, temperature class 155 (F), used acc. to temperature class 130 (B), IP23 degree of protection |                                                                           |                             |                          |                 |                         |                                                          |                               |                         |                              |       |       |
| 1LL8 315-2AC□□                                                                                                                             | 1.6                                                                       | 7.0                         | 2.8                      | 10              | 2.7                     | 84 <sup>1)</sup>                                         | 99                            | 3600                    | Yes                          |       |       |
| 1LL8 317-2AC□□                                                                                                                             | 1.7                                                                       | 7.0                         | 2.8                      | 10              | 3.3                     | 84 <sup>1)</sup>                                         | 99                            | 3600                    | Yes                          |       |       |
| 1LL8 353-2AD□□                                                                                                                             | 1.4                                                                       | 7.0                         | 2.6                      | 7               | 4.8                     | 86 <sup>1)</sup>                                         | 101                           | 3600/3100 <sup>2)</sup> | Yes                          | Yes   |       |
| 1LL8 355-2AD□□                                                                                                                             | 1.4                                                                       | 7.0                         | 2.6                      | 7               | 5.3                     | 86 <sup>1)</sup>                                         | 101                           | 3600/3100 <sup>2)</sup> | Yes                          | Yes   |       |
| 1LL8 357-2AD□□                                                                                                                             | 1.6                                                                       | 7.0                         | 2.6                      | 7               | 6.4                     | 86 <sup>1)</sup>                                         | 101                           | 3600/3100 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 403-2AD□□                                                                                                                             | 1.4                                                                       | 6.8                         | 2.6                      | 7               | 8.6                     | 88 <sup>1)</sup>                                         | 103                           | 3600/3100 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 405-2AD□□                                                                                                                             | 1.5                                                                       | 7.0                         | 2.6                      | 7               | 9.6                     | 88 <sup>1)</sup>                                         | 103                           | 3600/3100 <sup>2)</sup> | Yes                          | Yes   |       |
| 1LL8 407-2AD□□                                                                                                                             | 1.5                                                                       | 7.0                         | 2.7                      | 7               | 11                      | 88 <sup>1)</sup>                                         | 103                           | 3600/3100 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 453-2AE□□                                                                                                                             | 0.9                                                                       | 7.0                         | 2.9                      | 5               | 19                      | 90 <sup>1)</sup>                                         | 105                           | 3000                    | Yes                          |       |       |
| 1LL8 455-2AE□□                                                                                                                             | 0.9                                                                       | 7.0                         | 2.7                      | 5               | 21                      | 90 <sup>1)</sup>                                         | 105                           | 3000                    |                              | Yes   | Yes   |
| 1LL8 457-2AE□□                                                                                                                             | 0.9                                                                       | 7.0                         | 2.6                      | 5               | 23                      | 90 <sup>1)</sup>                                         | 105                           | 3000                    |                              | Yes   | Yes   |
| 4-pole, 1500 rpm at 50 Hz, 1800 rpm at 60 Hz, temperature class 155 (F), used acc. to temperature class 130 (B), IP23 degree of protection |                                                                           |                             |                          |                 |                         |                                                          |                               |                         |                              |       |       |
| 1LL8 315-4AC□□                                                                                                                             | 1.6                                                                       | 7.0                         | 2.7                      | 10              | 3.6                     | 75                                                       | 90                            | 3000/2600 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 317-4AC□□                                                                                                                             | 1.7                                                                       | 7.0                         | 2.7                      | 10              | 4.4                     | 75                                                       | 90                            | 3000/2600 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 353-4AC□□                                                                                                                             | 1.5                                                                       | 7.0                         | 2.6                      | 10              | 6.1                     | 77                                                       | 92                            | 2500/2200 <sup>2)</sup> | Yes                          | Yes   |       |
| 1LL8 355-4AC□□                                                                                                                             | 1.6                                                                       | 7.0                         | 2.6                      | 10              | 6.8                     | 77                                                       | 92                            | 2500/2200 <sup>2)</sup> | Yes                          | Yes   |       |
| 1LL8 357-4AC□□                                                                                                                             | 1.6                                                                       | 7.0                         | 2.7                      | 10              | 8.5                     | 77                                                       | 92                            | 2500/2200 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 403-4AC□□                                                                                                                             | 1.6                                                                       | 7.0                         | 2.4                      | 10              | 13                      | 81                                                       | 96                            | 2200/1900 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 405-4AC□□                                                                                                                             | 1.7                                                                       | 7.0                         | 2.5                      | 10              | 14                      | 81                                                       | 96                            | 2200/1900 <sup>2)</sup> | Yes                          | Yes   |       |
| 1LL8 407-4AC□□                                                                                                                             | 1.7                                                                       | 7.0                         | 2.6                      | 10              | 16                      | 81                                                       | 96                            | 2200/1900 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 453-4AD□□                                                                                                                             | 1.5                                                                       | 7.0                         | 2.8                      | 7               | 23                      | 84                                                       | 99                            | 2100/1800 <sup>2)</sup> | Yes                          |       |       |
| 1LL8 455-4AD□□                                                                                                                             | 1.5                                                                       | 7.0                         | 2.6                      | 7               | 26                      | 84                                                       | 99                            | 2100/1800 <sup>2)</sup> |                              | Yes   | Yes   |
| 1LL8 457-4AD□□                                                                                                                             | 1.5                                                                       | 7.0                         | 2.5                      | 7               | 28                      | 84                                                       | 99                            | 2100/1800 <sup>2)</sup> |                              | Yes   | Yes   |

<sup>1)</sup> The noise values for **1LL8**, 2-pole are for guidance only.

<sup>2)</sup> For vertical type of construction IM V1.

| Rated output at                                                                                                                            |                       | Frame size | Operating characteristics at rated output |                       |                                                     |                                |                                  |                              |                              | Order No.                                                                       | Price | Weight                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------|-------------------------------------------|-----------------------|-----------------------------------------------------|--------------------------------|----------------------------------|------------------------------|------------------------------|---------------------------------------------------------------------------------|-------|------------------------------------|
| 50 Hz                                                                                                                                      | 60 Hz                 |            | Rated speed at 50 Hz                      | Rated torque at 50 Hz | Relevant for IE changeover                          |                                |                                  |                              |                              | For Order No. supplements for voltage and type of construction, see table below |       | IM B3 type of construction approx. |
| $P_{\text{rated}}$ kW                                                                                                                      | $P_{\text{rated}}$ kW | FS         | $n_{\text{rated}}$ rpm                    | $M_{\text{rated}}$ Nm | Efficiency Class according to IEC 60034-30 standard | Efficiency at 50 Hz 100 %-load | Power factor at 50 Hz 100 %-load | Rated current at 50 Hz 400 V | Rated current at 50 Hz 690 V |                                                                                 |       |                                    |
|                                                                                                                                            |                       |            |                                           |                       |                                                     | $\eta_{\text{rated}}$ %        | $\cos\varphi_{\text{rated}}$     | $I_{\text{rated}}$ A         | $I_{\text{rated}}$ A         |                                                                                 |       | $m$ kg                             |
| 6-pole, 1000 rpm at 50 Hz, 1200 rpm at 60 Hz, temperature class 155 (F), used acc. to temperature class 130 (B), IP23 degree of protection |                       |            |                                           |                       |                                                     |                                |                                  |                              |                              |                                                                                 |       |                                    |
| 250                                                                                                                                        | 285                   | 315        | 988                                       | 2420                  | IE2 <sup>1)</sup>                                   | 95.0                           | 0.88                             | 430                          | 250                          | 1LL8 315-6AC□□                                                                  |       | 1300                               |
| 315                                                                                                                                        | 360                   | 315        | 988                                       | 3040                  | IE2 <sup>1)</sup>                                   | 95.2                           | 0.89                             | 540                          | 310                          | 1LL8 317-6AC□□                                                                  |       | 1500                               |
| 400                                                                                                                                        | 460                   | 355        | 991                                       | 3850                  |                                                     | 95.6                           | 0.88                             | 690                          | 400                          | 1LL8 355-6AC□□                                                                  |       | 2000                               |
| 500                                                                                                                                        | 575                   | 355        | 991                                       | 4820                  |                                                     | 95.9                           | 0.88                             | 860                          | 495                          | 1LL8 357-6AC□□                                                                  |       | 2200                               |
| 560                                                                                                                                        | 645                   | 400        | 993                                       | 5390                  |                                                     | 96.1                           | 0.87                             | 970                          | 560                          | 1LL8 403-6AC□□                                                                  |       | 2800                               |
| 630                                                                                                                                        | 725                   | 400        | 993                                       | 6060                  |                                                     | 96.2                           | 0.88                             | 1080                         | 620                          | 1LL8 405-6AC□□                                                                  |       | 3000                               |
| 710                                                                                                                                        | 815                   | 400        | 993                                       | 6830                  |                                                     | 96.2                           | 0.88                             | 1220                         | 700                          | 1LL8 407-6AC□□                                                                  |       | 3200                               |
| 800                                                                                                                                        | 920                   | 450        | 993                                       | 7700                  |                                                     | 96.3                           | 0.87                             | –                            | 800                          | 1LL8 453-6AD□□                                                                  |       | 4000                               |
| 900                                                                                                                                        | 1035                  | 450        | 992                                       | 8660                  |                                                     | 96.3                           | 0.88                             | –                            | 890                          | 1LL8 455-6AD□□                                                                  |       | 4200                               |
| 1000                                                                                                                                       | 1150                  | 450        | 993                                       | 9620                  |                                                     | 96.4                           | 0.88                             | –                            | 990                          | 1LL8 457-6AD□□                                                                  |       | 4500                               |
| 8-pole, 750 rpm at 50 Hz, 900 rpm at 60 Hz, temperature class 155 (F), used acc. to temperature class 130 (B), IP23 degree of protection   |                       |            |                                           |                       |                                                     |                                |                                  |                              |                              |                                                                                 |       |                                    |
| 200                                                                                                                                        | 230                   | 315        | 738                                       | 2590                  |                                                     | 94.2                           | 0.82                             | 375                          | 215                          | 1LL8 315-8AC□□                                                                  |       | 1300                               |
| 250                                                                                                                                        | 285                   | 315        | 738                                       | 3240                  |                                                     | 94.5                           | 0.82                             | 465                          | 270                          | 1LL8 317-8AC□□                                                                  |       | 1500                               |
| 315                                                                                                                                        | 360                   | 355        | 740                                       | 4070                  |                                                     | 95.0                           | 0.83                             | 580                          | 335                          | 1LL8 355-8AC□□                                                                  |       | 2000                               |
| 400                                                                                                                                        | 460                   | 355        | 740                                       | 5160                  |                                                     | 95.1                           | 0.84                             | 720                          | 420                          | 1LL8 357-8AC□□                                                                  |       | 2200                               |
| 450                                                                                                                                        | 515                   | 400        | 741                                       | 5800                  |                                                     | 95.4                           | 0.84                             | 810                          | 470                          | 1LL8 403-8AD□□                                                                  |       | 2800                               |
| 500                                                                                                                                        | 575                   | 400        | 741                                       | 6440                  |                                                     | 95.6                           | 0.84                             | 900                          | 520                          | 1LL8 405-8AD□□                                                                  |       | 3000                               |
| 560                                                                                                                                        | 645                   | 400        | 742                                       | 7210                  |                                                     | 95.7                           | 0.83                             | 1020                         | 590                          | 1LL8 407-8AD□□                                                                  |       | 3200                               |
| 630                                                                                                                                        | 745                   | 450        | 743                                       | 8100                  |                                                     | 95.8                           | 0.82                             | 1160                         | 670                          | 1LL8 453-8AD□□                                                                  |       | 4000                               |
| 710                                                                                                                                        | 815                   | 450        | 743                                       | 9130                  |                                                     | 95.9                           | 0.83                             | 1280                         | 750                          | 1LL8 455-8AD□□                                                                  |       | 4200                               |
| 800                                                                                                                                        | 920                   | 450        | 743                                       | 10300                 |                                                     | 96.0                           | 0.83                             | –                            | 840                          | 1LL8 457-8AD□□                                                                  |       | 4500                               |

A service factor (SF) of 1.05 is stamped onto all 1LL8 motors for mains-fed operation.

Note:  
Efficiencies according to IEC 60034-2-1: 2007; load-dependent additional losses are determined from statistical evaluation of measurements.

## Order No. supplements

| Motor type                           | Penultimate position: Voltage code |          |                 |                                                        | Final position: Type of construction code |                                            |                                           |          |
|--------------------------------------|------------------------------------|----------|-----------------|--------------------------------------------------------|-------------------------------------------|--------------------------------------------|-------------------------------------------|----------|
|                                      | 400 VΔ/690 VY                      | 500 VΔ   | 690 VΔ          | 60 Hz 460 VΔ (see "Introduction" for outputs at 60 Hz) | Without flange IM B3                      | With flange IM V1 without protective cover | IM V1 with protective cover <sup>2)</sup> | IM B35   |
|                                      | <b>6</b>                           | <b>5</b> | <b>0</b>        | <b>9 L2F</b>                                           | <b>0</b>                                  | <b>8</b>                                   | <b>4</b>                                  | <b>6</b> |
| 6-pole                               |                                    |          |                 |                                                        |                                           |                                            |                                           |          |
| 1LL8 315- ... □□ to 1LL8 407- ... □□ | □                                  | ○        | – <sup>3)</sup> | ○                                                      | □                                         | ✓                                          | ✓                                         | ✓        |
| 1LL8 453- ... □□ to 1LL8 457- ... □□ | –                                  | ○        | □               | O. R.                                                  | □                                         | ✓                                          | ✓                                         | ✓        |
| 8-pole                               |                                    |          |                 |                                                        |                                           |                                            |                                           |          |
| 1LL8 315- ... □□ to 1LL8 455- ... □□ | □                                  | ○        | – <sup>3)</sup> | ○                                                      | □                                         | ✓                                          | ✓                                         | ✓        |
| 1LL8 457- ... □□                     | –                                  | ○        | □               | O. R.                                                  | □                                         | ✓                                          | ✓                                         | ✓        |

- Standard version
- Without additional charge
- ✓ With additional charge
- O. R. Possible on request
- Not possible

Order other voltages with voltage code **9** in the penultimate position and the corresponding order code (see "Special versions" in the "Options" under "Voltages").

Voltages or frequencies that are not covered by the predefined options can be ordered with order code **L1Y**. In this case, the output, voltage and frequency must be specified.

<sup>1)</sup> Efficiency class IE3 on request.  
<sup>2)</sup> The "Second shaft extension" option, order code **K16** is not possible.  
<sup>3)</sup> As special version with voltage code **9** and order code **L1Y** (specify output, voltage and frequency).

| Order No.                                                                                                                                         | Locked-<br>rotor<br>torque                                                | Locked-<br>rotor<br>current     | Break-<br>down<br>torque | Torque<br>class | Moment<br>of inertia    | Noise at rated output                                    |                               | Mech. limit<br>speed    | Parallel feeders<br>required |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------|--------------------------|-----------------|-------------------------|----------------------------------------------------------|-------------------------------|-------------------------|------------------------------|-------|-------|
|                                                                                                                                                   | At 50 Hz and for direct online starting<br>as multiple of rated<br>torque | as multiple of rated<br>current | torque                   |                 |                         | Measuring<br>surface sound<br>pressure level<br>at 50 Hz | Sound power<br>level at 50 Hz |                         |                              |       |       |
|                                                                                                                                                   | $T_{LR}/T_{rated}$                                                        | $I_{LR}/I_{rated}$              | $T_B/T_{rated}$          | CL              | $J$<br>kgm <sup>2</sup> | $L_{p(A)}$<br>dB(A)                                      | $L_{WA}$<br>dB(A)             | $n_{max}$<br>rpm        | 400 V                        | 500 V | 690 V |
| <b>6-pole, 1000 rpm at 50 Hz, 1200 rpm at 60 Hz, temperature class 155 (F), used acc. to temperature class 130 (B), IP23 degree of protection</b> |                                                                           |                                 |                          |                 |                         |                                                          |                               |                         |                              |       |       |
| <b>1LL8 315-6AC□□</b>                                                                                                                             | 1.6                                                                       | 7                               | 2.6                      | 10              | 6                       | 70                                                       | 84                            | 2950/2600 <sup>1)</sup> |                              |       |       |
| <b>1LL8 317-6AC□□</b>                                                                                                                             | 1.7                                                                       | 7                               | 2.6                      | 10              | 7.3                     | 70                                                       | 84                            | 2950/2600 <sup>1)</sup> | Yes                          |       |       |
| <b>1LL8 355-6AC□□</b>                                                                                                                             | 1.7                                                                       | 7                               | 2.5                      | 10              | 13                      | 73                                                       | 88                            | 2500/2200 <sup>1)</sup> | Yes                          |       |       |
| <b>1LL8 357-6AC□□</b>                                                                                                                             | 1.8                                                                       | 7                               | 2.6                      | 10              | 16                      | 73                                                       | 88                            | 2500/2200 <sup>1)</sup> | Yes                          | Yes   |       |
| <b>1LL8 403-6AC□□</b>                                                                                                                             | 1.8                                                                       | 7                               | 2.6                      | 10              | 21                      | 76                                                       | 91                            | 2200/1900 <sup>1)</sup> |                              |       |       |
| <b>1LL8 405-6AC□□</b>                                                                                                                             | 1.8                                                                       | 7                               | 2.6                      | 10              | 24                      | 76                                                       | 91                            | 2200/1900 <sup>1)</sup> | Yes                          |       |       |
| <b>1LL8 407-6AC□□</b>                                                                                                                             | 1.8                                                                       | 7                               | 2.5                      | 10              | 27                      | 76                                                       | 91                            | 2200/1900 <sup>1)</sup> | Yes                          |       |       |
| <b>1LL8 453-6AD□□</b>                                                                                                                             | 1.5                                                                       | 7                               | 2.5                      | 7               | 35                      | 78                                                       | 93                            | 2100/1800 <sup>1)</sup> | Yes                          | Yes   |       |
| <b>1LL8 455-6AD□□</b>                                                                                                                             | 1.5                                                                       | 7                               | 2.4                      | 7               | 39                      | 78                                                       | 93                            | 2100/1800 <sup>1)</sup> |                              | Yes   |       |
| <b>1LL8 457-6AD□□</b>                                                                                                                             | 1.5                                                                       | 7                               | 2.5                      | 7               | 44                      | 78                                                       | 93                            | 2100/1800 <sup>1)</sup> |                              | Yes   |       |
| <b>8-pole, 750 rpm at 50 Hz, 900 rpm at 60 Hz, temperature class 155 (F), used acc. to temperature class 130 (B), IP23 degree of protection</b>   |                                                                           |                                 |                          |                 |                         |                                                          |                               |                         |                              |       |       |
| <b>1LL8 315-8AC□□</b>                                                                                                                             | 1.6                                                                       | 5.8                             | 2.4                      | 10              | 6                       | 67                                                       | 81                            | 2950/2600 <sup>1)</sup> |                              |       |       |
| <b>1LL8 317-8AC□□</b>                                                                                                                             | 1.6                                                                       | 5.8                             | 2.4                      | 10              | 7.3                     | 67                                                       | 81                            | 2950/2600 <sup>1)</sup> |                              |       |       |
| <b>1LL8 355-8AC□□</b>                                                                                                                             | 1.6                                                                       | 6                               | 2.4                      | 10              | 13                      | 69                                                       | 84                            | 2500/2200 <sup>1)</sup> |                              |       |       |
| <b>1LL8 357-8AC□□</b>                                                                                                                             | 1.6                                                                       | 6                               | 2.3                      | 10              | 16                      | 69                                                       | 84                            | 2500/2200 <sup>1)</sup> | Yes                          |       |       |
| <b>1LL8 403-8AD□□</b>                                                                                                                             | 1.3                                                                       | 5.8                             | 2.3                      | 7               | 21                      | 72                                                       | 87                            | 2200/1900 <sup>1)</sup> |                              |       |       |
| <b>1LL8 405-8AD□□</b>                                                                                                                             | 1.4                                                                       | 5.8                             | 2.4                      | 7               | 24                      | 72                                                       | 87                            | 2200/1900 <sup>1)</sup> |                              |       |       |
| <b>1LL8 407-8AD□□</b>                                                                                                                             | 1.4                                                                       | 6                               | 2.4                      | 7               | 27                      | 72                                                       | 87                            | 2200/1900 <sup>1)</sup> | Yes                          |       |       |
| <b>1LL8 453-8AD□□</b>                                                                                                                             | 1.3                                                                       | 5.8                             | 2.3                      | 7               | 35                      | 74                                                       | 89                            | 2100/1800 <sup>1)</sup> | Yes                          |       |       |
| <b>1LL8 455-8AD□□</b>                                                                                                                             | 1.3                                                                       | 5.8                             | 2.3                      | 7               | 39                      | 74                                                       | 89                            | 2100/1800 <sup>1)</sup> | Yes                          | Yes   |       |
| <b>1LL8 457-8AD□□</b>                                                                                                                             | 1.3                                                                       | 5.8                             | 2.3                      | 7               | 44                      | 74                                                       | 89                            | 2100/1800 <sup>1)</sup> | Yes                          | Yes   |       |

<sup>1)</sup> For vertical type of construction IM V1.