

# Squirrel-cage motors

## 1MJ · EEx de IIC type of protection

### Selection and ordering data

| Rated output                                                                 | Size  | Order No.<br>Order No.<br>supplement for voltage and type of construction, see table below | Operating data at rated output |                   |                   |                        |              | Starting torque<br>For direct-on-line starting as multiple of the rated torque | Starting current<br>as multiple of the rated current | Stalling torque | Torque class | Moment of inertia<br><i>J</i> | Weight<br>Type of constr. IM B 3 approx. |
|------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|--------------------------------|-------------------|-------------------|------------------------|--------------|--------------------------------------------------------------------------------|------------------------------------------------------|-----------------|--------------|-------------------------------|------------------------------------------|
|                                                                              |       |                                                                                            | Rated speed                    | Efficiency $\eta$ | Power factor p.f. | Rated current at 400 V | Rated torque |                                                                                |                                                      |                 |              |                               |                                          |
| kW                                                                           |       |                                                                                            | rpm                            | %                 |                   | A                      | Nm           |                                                                                |                                                      |                 | KL           | kg m <sup>2</sup>             | kg                                       |
| Temperature classes T1 to T4, IP55 degree of protection, temperature class F |       |                                                                                            |                                |                   |                   |                        |              |                                                                                |                                                      |                 |              |                               | ATEX                                     |
|                                                                              |       | 3000 rpm, 2-pole, 50 Hz                                                                    |                                |                   |                   |                        |              |                                                                                |                                                      |                 |              |                               |                                          |
| 0.37<br>0.55                                                                 | 71 M  | 1MJ6 070–2CA ..                                                                            | 2750                           | 67                | 0.81              | 0.98                   | 1.3          | 2.3                                                                            | 4.3                                                  | 2.3             | 16           | 0.00035                       | 19                                       |
|                                                                              |       | 1MJ6 073–2CA ..                                                                            | 2790                           | 71                | 0.81              | 1.38                   | 1.9          | 2.5                                                                            | 5.3                                                  | 2.6             | 16           | 0.00045                       | 20                                       |
| 0.75<br>1.1                                                                  | 80 M  | 1MJ6 080–2CA ..                                                                            | 2840                           | 72                | 0.86              | 1.75                   | 2.5          | 2.4                                                                            | 6.3                                                  | 2.3             | 16           | 0.00085                       | 24                                       |
|                                                                              |       | 1MJ6 083–2CA ..                                                                            | 2835                           | 74                | 0.87              | 2.45                   | 3.7          | 2.6                                                                            | 6.3                                                  | 2.3             | 16           | 0.0011                        | 26                                       |
| 1.5<br>2.2                                                                   | 90 L  | 1MJ6 096–2CA ..                                                                            | 2850                           | 78                | 0.84              | 3.3                    | 5.0          | 2.5                                                                            | 6.7                                                  | 2.5             | 16           | 0.0015                        | 32                                       |
|                                                                              |       | 1MJ6 097–2CA ..                                                                            | 2860                           | 80                | 0.86              | 4.6                    | 7.4          | 2.8                                                                            | 7.1                                                  | 2.8             | 16           | 0.0020                        | 35                                       |
| 3                                                                            | 100 L | 1MJ6 106–2CA ..                                                                            | 2885                           | 82                | 0.85              | 6.2                    | 9.9          | 2.8                                                                            | 7.7                                                  | 3.0             | 16           | 0.0038                        | 44                                       |
| 4                                                                            | 112 M | 1MJ6 113–2CA ..                                                                            | 2895                           | 84                | 0.88              | 7.8                    | 13           | 2.4                                                                            | 7.6                                                  | 2.8             | 16           | 0.0055                        | 57                                       |
| 5.5<br>7.5                                                                   | 132 S | 1MJ6 130–2CA ..                                                                            | 2925                           | 85                | 0.89              | 10.5                   | 18           | 2.0                                                                            | 5.9                                                  | 2.6             | 16           | 0.015                         | 75                                       |
|                                                                              |       | 1MJ6 131–2CA ..                                                                            | 2930                           | 87                | 0.89              | 14                     | 24           | 2.3                                                                            | 6.9                                                  | 2.6             | 16           | 0.019                         | 82                                       |
| 11                                                                           | 160 M | 1MJ6 163–2CA ..                                                                            | 2940                           | 88                | 0.88              | 20.5                   | 36           | 2.1                                                                            | 6.5                                                  | 2.6             | 16           | 0.034                         | 123                                      |
| 15                                                                           | 160 M | 1MJ6 164–2CA ..                                                                            | 2940                           | 89                | 0.91              | 26.5                   | 49           | 2.2                                                                            | 6.6                                                  | 3.1             | 16           | 0.043                         | 134                                      |
| 18.5                                                                         | 160 L | 1MJ6 166–2CA ..                                                                            | 2940                           | 91                | 0.91              | 32.5                   | 60           | 2.4                                                                            | 7.0                                                  | 3.3             | 16           | 0.051                         | 161                                      |
| 22                                                                           | 180 M | 1MJ6 183–2CA ..                                                                            | 2940                           | 92                | 0.88              | 39                     | 71           | 2.5                                                                            | 6.9                                                  | 3.2             | 16           | 0.077                         | 175                                      |
| 30<br>37                                                                     | 200 L | 1MJ6 206–2CA ..                                                                            | 2940                           | 92.3              | 0.89              | 53                     | 97           | 2.4                                                                            | 6.5                                                  | 2.8             | 16           | 0.14                          | 250                                      |
|                                                                              |       | 1MJ6 207–2CA ..                                                                            | 2945                           | 92.8              | 0.90              | 64                     | 120          | 2.4                                                                            | 7.7                                                  | 2.8             | 16           | 0.16                          | 266                                      |
| 45                                                                           | 225 M | 1MJ7 223–2CB ..                                                                            | 2955                           | 93.9              | 0.90              | 77 <sup>1)</sup>       | 145          | 2.3                                                                            | 6.9                                                  | 2.7             | 13           | 0.24                          | 335                                      |
| 55                                                                           | 250 M | 1MJ7 253–2CB ..                                                                            | 2965                           | 93.7              | 0.90              | 94                     | 177          | 2.1                                                                            | 6.9                                                  | 2.8             | 13           | 0.45                          | 445                                      |
| 75<br>90                                                                     | 280 S | 1MJ7 280–2CC ..                                                                            | 2975                           | 94.7              | 0.90              | 128 <sup>1)</sup>      | 241          | 1.9                                                                            | 7.0                                                  | 2.7             | 10           | 0.79                          | 600                                      |
|                                                                              |       | 1MJ7 283–2CC ..                                                                            | 2975                           | 95.1              | 0.91              | 150 <sup>1)</sup>      | 289          | 2.0                                                                            | 7.0                                                  | 2.7             | 10           | 0.92                          | 640                                      |
| 110<br>132                                                                   | 315 S | 1MJ7 310–2CC ..                                                                            | 2980                           | 94.8              | 0.90              | 186 <sup>1)</sup>      | 353          | 1.8                                                                            | 7.0                                                  | 2.8             | 10           | 1.3                           | 840                                      |
|                                                                              |       | 1MJ7 313–2CC ..                                                                            | 2980                           | 95.1              | 0.90              | 225 <sup>1)</sup>      | 423          | 1.9                                                                            | 7.0                                                  | 2.8             | 10           | 1.5                           | 900                                      |
| 160<br>200                                                                   | 315 M | 1MJ8 313–2AB ..                                                                            | 2980                           | 95.7              | 0.88              | 280                    | 513          | 2.2                                                                            | 6.9                                                  | 2.5             | 13           | 2.3                           | 1100                                     |
|                                                                              |       | 1MJ8 316–2AB ..                                                                            | 2980                           | 96.2              | 0.89              | 335                    | 641          | 2.3                                                                            | 6.9                                                  | 2.6             | 13           | 2.8                           | 1200                                     |
| 250<br>315                                                                   | 355   | 1MJ8 353–2AC ..                                                                            | 2980                           | 96.2              | 0.89              | 423 <sup>2)</sup>      | 801          | 2.1                                                                            | 6.7                                                  | 2.6             | 10           | 3.5                           | 1700                                     |
|                                                                              |       | 1MJ8 356–2AC ..                                                                            | 2980                           | 96.6              | 0.89              | 530 <sup>2)</sup>      | 1009         | 2.1                                                                            | 6.7                                                  | 2.6             | 10           | 4.2                           | 2000                                     |
| 355<br>400                                                                   | 355   | 1MJ1 355–2AD ..                                                                            | 2978                           | 96.5              | 0.91              | 580                    | 1138         | 1.0                                                                            | 6.4                                                  | 2.7             | 7            | 4.3                           | 2400                                     |
|                                                                              |       | 1MJ1 357–2AD ..                                                                            | 2978                           | 96.6              | 0.91              | 655                    | 1282         | 0.95                                                                           | 6.1                                                  | 2.6             | 7            | 4.3                           | 2400                                     |
| 450<br>500<br>560                                                            | 400   | 1MJ1 403–2AE ..                                                                            | 2984                           | 96.7              | 0.90              | 745                    | 1440         | 0.8                                                                            | 6.2                                                  | 2.8             | 5            | 6.0                           | 2800                                     |
|                                                                              |       | 1MJ1 405–2AE ..                                                                            | 2982                           | 96.8              | 0.91              | 820                    | 1601         | 0.8                                                                            | 5.9                                                  | 2.55            | 5            | 7.0                           | 3000                                     |
|                                                                              |       | 1MJ1 407–2AE ..                                                                            | 2983                           | 97.0              | 0.91              | 915                    | 1792         | 0.85                                                                           | 6.2                                                  | 2.7             | 5            | 7.0                           | 3000                                     |
| 630                                                                          | 450   | 1MJ1 453–2AE ..                                                                            | 2986                           | 96.9              | 0.91              | 600 ●                  | 2014         | 0.75                                                                           | 6.2                                                  | 2.7             | 5            | 11.0                          | 4000                                     |
| 710                                                                          |       | 1MJ1 455–2AE ..                                                                            | 2986                           | 97.0              | 0.91              | 670 ●                  | 2270         | 0.8                                                                            | 6.3                                                  | 2.8             | 5            | 11.0                          | 4000                                     |
| 800                                                                          |       | 1MJ1 457–2AE ..                                                                            | 2986                           | 97.1              | 0.91              | 760 ●                  | 2557         | 0.8                                                                            | 6.3                                                  | 2.8             | 5            | 13.0                          | 4200                                     |
| 900                                                                          |       | 1MJ1 458–2AE ..                                                                            | 2985                           | 97.2              | 0.91              | 850 ●                  | 2879         | 0.85                                                                           | 6.4                                                  | 2.7             | 5            | 13.0                          | 4200                                     |

● Rated current at 690 V.

### Order No. supplements

| Motor type           | Penultimate position: Voltage identifier |                    |        |        | Final position: Type of construction identifier |                  |                                       |                                       |                                      |         |
|----------------------|------------------------------------------|--------------------|--------|--------|-------------------------------------------------|------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------|
|                      | 50 Hz                                    |                    |        |        | IM B 3                                          | Price supplement |                                       |                                       |                                      |         |
|                      | 230 VΔ /<br>400 VΥ                       | 400 VΔ /<br>690 VΥ | 500 VΥ | 500 VΔ |                                                 | IM B 5           | IM V 1<br>With<br>protective<br>cover | IM B 14<br>With<br>standard<br>flange | IM B 14<br>With<br>special<br>flange | IM B 35 |
| 1MJ6 070 to 1MJ6 097 | 1                                        | 6                  | 3      | –      | 0                                               | 1                | 4                                     | 2                                     | 3 <sup>3)</sup>                      | 6       |
| 1MJ6 106 to 1MJ6 166 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | –                                     | –                                    | 6       |
| 1MJ6 183 to 1MJ6 207 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | –                                     | –                                    | 6       |
| 1MJ7 223 to 1MJ7 313 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | –                                     | –                                    | 6       |
| 1MJ8 313 to 1MJ8 316 | –                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | –                                     | –                                    | 6       |
| 1MJ8 353 to 1MJ8 356 | –                                        | 6                  | 3      | 5      | 0                                               | –                | 4                                     | –                                     | –                                    | 6       |
| 1MJ1 355 to 1MJ1 458 | –                                        | 6                  | 3      | 5      | 0                                               | –                | 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").

2) The motors have two terminal blocks.

3) Only up to 1MJ6 083.

# Squirrel-cage motors

## 1MJ · EEx de IIC type of protection

### 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 | Weight                         |
|------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------|--------------------------------|-------------------|-------------------|--------------------------|--------------|-------------------------------------------------------------|------------------|-----------------|--------------|-------------------|--------------------------------|
|                                                                              |                         | Order No. supplement for voltage and type of construction, see table below | Rated speed                    | Efficiency $\eta$ | Power factor p.f. | Rated current at 400 V   | Rated torque | For direct-on-line starting as multiple of the rated torque | current          | torque          |              | $J$               | Type of constr. IM B 3 approx. |
| kW                                                                           |                         |                                                                            | rpm                            | %                 |                   | A                        | Nm           |                                                             |                  |                 | KL           | kg m <sup>2</sup> | kg                             |
| Temperature classes T1 to T4, IP55 degree of protection, temperature class F |                         |                                                                            |                                |                   |                   |                          |              |                                                             |                  |                 |              |                   | ATEX                           |
|                                                                              | 1500 rpm, 4-pole, 50 Hz |                                                                            |                                |                   |                   |                          |              |                                                             |                  |                 |              |                   |                                |
| 0.25<br>0.37                                                                 | 71 M                    | 1MJ6 070-4CB ..                                                            | 1325                           | 60                | 0.77              | 0.78                     | 1.8          | 1.8                                                         | 3.2              | 1.8             | 13           | 0.0006            | 20                             |
|                                                                              |                         | 1MJ6 073-4CB ..                                                            | 1375                           | 64                | 0.74              | 1.13                     | 2.5          | 2                                                           | 3.6              | 2               | 13           | 0.0008            | 21                             |
| 0.55<br>0.75                                                                 | 80 M                    | 1MJ6 080-4CA ..                                                            | 1395                           | 71                | 0.79              | 1.42                     | 3.7          | 2.3                                                         | 4.7              | 2.4             | 16           | 0.0015            | 24                             |
|                                                                              |                         | 1MJ6 083-4CA ..                                                            | 1395                           | 73                | 0.79              | 1.88                     | 5.1          | 2.5                                                         | 5                | 2.6             | 16           | 0.0018            | 26                             |
| 1.1<br>1.5                                                                   | 90 L                    | 1MJ6 096-4CA ..                                                            | 1410                           | 73                | 0.81              | 2.7                      | 7.5          | 2.1                                                         | 4.9              | 2.5             | 16           | 0.0028            | 32                             |
|                                                                              |                         | 1MJ6 097-4CA ..                                                            | 1420                           | 77                | 0.8               | 3.5                      | 10           | 2.2                                                         | 5.8              | 2.6             | 16           | 0.0035            | 35                             |
| 2.2<br>3                                                                     | 100 L                   | 1MJ6 106-4CA ..                                                            | 1420                           | 78                | 0.8               | 5.1                      | 15           | 2.2                                                         | 6                | 2.6             | 16           | 0.0048            | 44                             |
|                                                                              |                         | 1MJ6 107-4CA ..                                                            | 1415                           | 80                | 0.82              | 6.6                      | 20           | 2.7                                                         | 6.4              | 3               | 16           | 0.0058            | 47                             |
| 4                                                                            | 112 M                   | 1MJ6 113-4CA ..                                                            | 1435                           | 83                | 0.82              | 8.5                      | 27           | 2.8                                                         | 7.2              | 3               | 16           | 0.011             | 58                             |
| 5.5<br>7.5                                                                   | 132 S                   | 1MJ6 130-4CA ..                                                            | 1450                           | 86                | 0.83              | 11.1                     | 36           | 2.4                                                         | 6.9              | 3.3             | 16           | 0.018             | 76                             |
|                                                                              | 132 M                   | 1MJ6 133-4CA ..                                                            | 1450                           | 86                | 0.84              | 15                       | 49           | 2.7                                                         | 7.7              | 3.3             | 16           | 0.024             | 85                             |
| 11<br>15                                                                     | 160 M                   | 1MJ6 163-4CA ..                                                            | 1455                           | 87                | 0.85              | 21.5                     | 72           | 2.4                                                         | 6.6              | 2.9             | 16           | 0.040             | 128                            |
|                                                                              | 160 L                   | 1MJ6 166-4CA ..                                                            | 1455                           | 89                | 0.85              | 28.5                     | 98           | 2.8                                                         | 7.4              | 3.2             | 16           | 0.052             | 158                            |
| 18.5<br>22                                                                   | 180 M                   | 1MJ6 183-4CA ..                                                            | 1460                           | 90.5              | 0.84              | 35                       | 121          | 2.3                                                         | 7.1              | 3               | 16           | 0.13              | 175                            |
|                                                                              | 180 L                   | 1MJ6 186-4CA ..                                                            | 1460                           | 91.2              | 0.85              | 41                       | 144          | 2.3                                                         | 7.1              | 3               | 16           | 0.15              | 189                            |
| 30                                                                           | 200 L                   | 1MJ6 207-4CA ..                                                            | 1465                           | 91.8              | 0.86              | 55                       | 196          | 2.6                                                         | 7.4              | 3.2             | 16           | 0.24              | 247                            |
| 37<br>45                                                                     | 225 S                   | 1MJ7 220-4CA ..                                                            | 1475                           | 93                | 0.86              | 67 <sup>1)</sup>         | 240          | 2.5                                                         | 7                | 3.1             | 16           | 0.44              | 325                            |
|                                                                              | 225 M                   | 1MJ7 223-4CA ..                                                            | 1475                           | 93.4              | 0.87              | 80 <sup>1)</sup>         | 292          | 2.6                                                         | 7                | 3.2             | 16           | 0.52              | 355                            |
| 55                                                                           | 250 M                   | 1MJ7 253-4CA ..                                                            | 1480                           | 94                | 0.87              | 97 <sup>1)</sup>         | 355          | 2.6                                                         | 6.7              | 2.5             | 16           | 0.79              | 465                            |
| 75<br>90                                                                     | 280 S                   | 1MJ7 280-4CA ..                                                            | 1485                           | 94.7              | 0.86              | 132 <sup>1)</sup>        | 482          | 2.5                                                         | 6.7              | 2.7             | 16           | 1.4               | 630                            |
|                                                                              | 280 M                   | 1MJ7 283-4CA ..                                                            | 1485                           | 95                | 0.86              | 160 <sup>1)</sup>        | 579          | 2.5                                                         | 6.8              | 2.8             | 16           | 1.6               | 680                            |
| 110<br>132                                                                   | 315 S                   | 1MJ7 310-4CA ..                                                            | 1488                           | 94.8              | 0.86              | 194 <sup>1)</sup>        | 706          | 2.5                                                         | 7.0              | 2.7             | 16           | 2.2               | 870                            |
|                                                                              | 315 M                   | 1MJ7 313-4CA ..                                                            | 1488                           | 95.5              | 0.86              | 232 <sup>1)</sup>        | 847          | 2.7                                                         | 7.5              | 3               | 16           | 2.7               | 950                            |
| 160<br>200                                                                   | 315 M                   | 1MJ8 313-4AC ..                                                            | 1485                           | 95.6              | 0.86              | 285                      | 1029         | 2.4                                                         | 6.8              | 2.5             | 13           | 3.3               | 1120                           |
|                                                                              | 315 L                   | 1MJ8 316-4AB ..                                                            | 1485                           | 95.7              | 0.85              | 355                      | 1286         | 2.5                                                         | 6.9              | 2.4             | 13           | 4.0               | 1200                           |
| 225<br>250<br>280<br>315                                                     | 355                     | 1MJ8 353-4AC ..                                                            | 1485                           | 96.2              | 0.85              | 400                      | 1447         | 2.1                                                         | 6.6              | 2.3             | 13           | 5.5               | 1800                           |
|                                                                              |                         | 1MJ8 354-4AD ..                                                            | 1490                           | 96.5              | 0.86              | 435 <sup>2)</sup>        | 1602         | 1.2                                                         | 6.5              | 2.4             | 7            | 6                 | 1800                           |
|                                                                              |                         | 1MJ8 356-4AC ..                                                            | 1485                           | 96.3              | 0.85              | 495 <sup>2)</sup>        | 1801         | 2.1                                                         | 6.6              | 2.3             | 13           | 6.5               | 2100                           |
|                                                                              |                         | 1MJ8 357-4AD ..                                                            | 1490                           | 96.6              | 0.87              | 540 <sup>2)</sup>        | 2019         | 1.2                                                         | 6.5              | 2.4             | 7            | 7                 | 2100                           |
| 355<br>400<br>450                                                            | 355                     | 1MJ1 353-4AD ..                                                            | 1491                           | 96.6              | 0.86              | 620                      | 2272         | 1.05                                                        | 6.1              | 2.4             | 7            | 7.5               | 2500                           |
|                                                                              |                         | 1MJ1 355-4AD ..                                                            | 1491                           | 96.7              | 0.86              | 695                      | 2560         | 1.05                                                        | 6.0              | 2.35            | 7            | 9.0               | 2700                           |
|                                                                              |                         | 1MJ1 357-4AD ..                                                            | 1491                           | 96.8              | 0.86              | 785                      | 2880         | 1.1                                                         | 6.2              | 2.4             | 7            | 9.0               | 2700                           |
| 500<br>560<br>630                                                            | 400                     | 1MJ1 403-4AD ..                                                            | 1492                           | 96.8              | 0.87              | 855 <sup>3)</sup>        | 3200         | 1.1                                                         | 6.2              | 2.6             | 7            | 13                | 3100                           |
|                                                                              |                         | 1MJ1 405-4AD ..                                                            | 1492                           | 96.9              | 0.88              | 950 <sup>3)</sup>        | 3583         | 1.1                                                         | 6.2              | 2.55            | 7            | 15                | 3300                           |
|                                                                              |                         | 1MJ1 407-4AD ..                                                            | 1492                           | 97.0              | 0.88              | 1070 <sup>2) 3) 4)</sup> | 4031         | 1.1                                                         | 6.3              | 2.6             | 7            | 15                | 3300                           |
| 710<br>800<br>900                                                            | 450                     | 1MJ1 453-4AD ..                                                            | 1493                           | 97.0              | 0.89              | 1190 <sup>2) 3) 4)</sup> | 4540         | 0.95                                                        | 6.3              | 2.5             | 7            | 24.5              | 4300                           |
|                                                                              |                         | 1MJ1 455-4AD ..                                                            | 1493                           | 97.1              | 0.88              | 1355 <sup>2) 3) 4)</sup> | 5114         | 1.0                                                         | 6.6              | 2.6             | 7            | 24.5              | 4300                           |
|                                                                              |                         | 1MJ1 457-4AD ..                                                            | 1493                           | 97.2              | 0.88              | 880 <sup>●</sup>         | 5755         | 1.05                                                        | 6.6              | 2.5             | 7            | 29.0              | 4800                           |

● Rated current at 690 V.

### Order No. supplements

| Motor type           | Penultimate position: Voltage identifier |                    |        |        | Final position: Type of construction identifier |                  |                                       |                                       |                                      |         |  |
|----------------------|------------------------------------------|--------------------|--------|--------|-------------------------------------------------|------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------|--|
|                      | 50 Hz                                    |                    |        |        | IM B 3                                          | Price supplement |                                       |                                       |                                      |         |  |
|                      | 230 VΔ /<br>400 VY                       | 400 VΔ /<br>690 VY | 500 VY | 500 VΔ |                                                 | IM B 5           | IM V 1<br>With<br>protective<br>cover | IM B 14<br>With<br>standard<br>flange | IM B 14<br>With<br>special<br>flange | IM B 35 |  |
| 1MJ6 070 to 1MJ6 097 | 1                                        | 6                  | 3      | —      | 0                                               | 1                | 4                                     | 2                                     | 3 <sup>5)</sup>                      | 6       |  |
| 1MJ6 106 to 1MJ6 166 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | —                                     | —                                    | 6       |  |
| 1MJ6 183 to 1MJ6 207 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | —                                     | —                                    | 6       |  |
| 1MJ7 220 to 1MJ7 313 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | —                                     | —                                    | 6       |  |
| 1MJ8 313 to 1MJ8 316 | —                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | —                                     | —                                    | 6       |  |
| 1MJ8 353 to 1MJ8 357 | —                                        | 6                  | 3      | 5      | 0                                               | —                | 4                                     | —                                     | —                                    | 6       |  |
| 1MJ1 353 to 1MJ1 457 | —                                        | 6                  | 3      | 5      | 0                                               | —                | 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").

2) The motors have two terminal blocks.  
3) For connection to 400 V, parallel supply cables are required (see "Technical information", "Connections, circuits and terminal blocks").

4) For connection to 500 V, parallel supply cables are required (see "Technical information", "Connections, circuits and terminal blocks").

5) Only up to 1MJ6 083.

# Squirrel-cage motors

## 1MJ · EEx de IIC type of protection

### Selection and ordering data

| Rated output                                                                 | Size                    | Order No.<br>Order No.<br>supplement for voltage and type of construction, see table below | Operating data at rated output |                   |                   |                          |              | Starting torque                                             | Starting current | Stalling torque | Torque class | Moment of inertia <i>J</i> | Weight                         |
|------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------|--------------------------------|-------------------|-------------------|--------------------------|--------------|-------------------------------------------------------------|------------------|-----------------|--------------|----------------------------|--------------------------------|
|                                                                              |                         |                                                                                            | Rated speed                    | Efficiency $\eta$ | Power factor p.f. | Rated current at 400 V   | Rated torque | For direct-on-line starting as multiple of the rated torque | current          | torque          |              |                            | Type of constr. IM B 3 approx. |
|                                                                              |                         |                                                                                            | rpm                            | %                 |                   | A                        | Nm           |                                                             |                  |                 | KL           | kg m <sup>2</sup>          | kg                             |
| Temperature classes T1 to T4, IP55 degree of protection, temperature class F |                         |                                                                                            |                                |                   |                   |                          |              |                                                             |                  |                 |              |                            | ATEX                           |
|                                                                              | 1000 rpm, 6-pole, 50 Hz |                                                                                            |                                |                   |                   |                          |              |                                                             |                  |                 |              |                            |                                |
| 0.25                                                                         | 71 M                    | 1MJ6 073–6CA ..                                                                            | 870                            | 63                | 0.7               | 0.82                     | 2.7          | 2.2                                                         | 3.1              | 2.2             | 16           | 0.0009                     | 16                             |
| 0.37                                                                         | 80 M                    | 1MJ6 080–6CA ..                                                                            | 910                            | 64                | 0.71              | 1.18                     | 3.9          | 1.9                                                         | 3.3              | 2               | 16           | 0.0015                     | 35                             |
| 0.55                                                                         |                         | 1MJ6 083–6CA ..                                                                            | 900                            | 64                | 0.74              | 1.67                     | 5.8          | 2                                                           | 3.5              | 2.1             | 16           | 0.0018                     | 23                             |
| 0.75                                                                         | 90 L                    | 1MJ6 096–6CA ..                                                                            | 910                            | 69                | 0.76              | 2.1                      | 8.0          | 2.2                                                         | 3.9              | 2.3             | 16           | 0.0028                     | 32                             |
| 1.1                                                                          |                         | 1MJ6 097–6CA ..                                                                            | 905                            | 72                | 0.75              | 2.95                     | 12           | 2.4                                                         | 4.3              | 2.4             | 16           | 0.0035                     | 32                             |
| 1.5                                                                          | 100 L                   | 1MJ6 106–6CA ..                                                                            | 930                            | 75                | 0.73              | 4.0                      | 15           | 2.3                                                         | 4.5              | 2.5             | 16           | 0.0063                     | 39                             |
| 2.2                                                                          | 112 M                   | 1MJ6 113–6CA ..                                                                            | 945                            | 76                | 0.76              | 5.5                      | 22           | 2.2                                                         | 4.8              | 2.5             | 16           | 0.011                      | 52                             |
| 3                                                                            | 132 S                   | 1MJ6 130–6CA ..                                                                            | 945                            | 78                | 0.75              | 7.4                      | 30           | 2                                                           | 4.8              | 2.2             | 16           | 0.015                      | 78                             |
| 4                                                                            | 132 M                   | 1MJ6 133–6CA ..                                                                            | 945                            | 79                | 0.76              | 9.6                      | 40           | 2                                                           | 5                | 2.4             | 16           | 0.019                      | 85                             |
| 5.5                                                                          | 132 M                   | 1MJ6 134–6CA ..                                                                            | 950                            | 83                | 0.76              | 12.6                     | 55           | 2.2                                                         | 5.4              | 2.5             | 16           | 0.025                      | 92                             |
| 7.5                                                                          | 160 M                   | 1MJ6 163–6CA ..                                                                            | 960                            | 86                | 0.72              | 17.5                     | 75           | 2.1                                                         | 5.1              | 2.5             | 16           | 0.041                      | 134                            |
| 11                                                                           | 160 L                   | 1MJ6 166–6CA ..                                                                            | 960                            | 87                | 0.74              | 24.5                     | 109          | 2.3                                                         | 5.5              | 2.5             | 16           | 0.049                      | 167                            |
| 15                                                                           | 180 L                   | 1MJ6 186–6CA ..                                                                            | 970                            | 89                | 0.83              | 29.5                     | 148          | 2.6                                                         | 6.3              | 2.4             | 16           | 0.20                       | 190                            |
| 18.5                                                                         | 200 L                   | 1MJ6 206–6CA ..                                                                            | 975                            | 90.2              | 0.82              | 36                       | 181          | 2.6                                                         | 6.3              | 2.3             | 16           | 0.29                       | 240                            |
| 22                                                                           |                         | 1MJ6 207–6CA ..                                                                            | 975                            | 90.8              | 0.83              | 42.5                     | 215          | 2.5                                                         | 5.7              | 2.3             | 16           | 0.33                       | 255                            |
| 30                                                                           | 225 M                   | 1MJ7 223–6CA ..                                                                            | 978                            | 92                | 0.84              | 56                       | 293          | 2.6                                                         | 5.7              | 2.2             | 16           | 0.57                       | 330                            |
| 37                                                                           | 250 M                   | 1MJ7 253–6CA ..                                                                            | 980                            | 92.4              | 0.84              | 69                       | 361          | 2.6                                                         | 6                | 2.1             | 16           | 0.89                       | 440                            |
| 45                                                                           | 280 S                   | 1MJ7 280–6CA ..                                                                            | 982                            | 93                | 0.86              | 81                       | 438          | 2.4                                                         | 6                | 2.3             | 16           | 1.3                        | 560                            |
| 55                                                                           | 280 M                   | 1MJ7 283–6CA ..                                                                            | 984                            | 93.6              | 0.86              | 99 <sup>1)</sup>         | 534          | 2.5                                                         | 6.2              | 2.4             | 16           | 1.5                        | 600                            |
| 75                                                                           | 315 S                   | 1MJ7 310–6CA ..                                                                            | 988                            | 93.8              | 0.85              | 136                      | 725          | 2.4                                                         | 6.2              | 2.5             | 16           | 2.4                        | 810                            |
| 90                                                                           | 315 M                   | 1MJ7 313–6CA ..                                                                            | 988                            | 94.2              | 0.85              | 162 <sup>1)</sup>        | 870          | 2.4                                                         | 6.2              | 2.5             | 16           | 2.9                        | 870                            |
| 110                                                                          | 315 M                   | 1MJ8 313–6AC ..                                                                            | 990                            | 95.3              | 0.86              | 195                      | 1061         | 2.1                                                         | 6.8              | 2.3             | 10           | 4.8                        | 1150                           |
| 132                                                                          | 315 M                   | 1MJ8 314–6AC ..                                                                            | 990                            | 95.4              | 0.87              | 228                      | 1273         | 2.1                                                         | 6.6              | 2.3             | 10           | 4.8                        | 1150                           |
| 160                                                                          | 315 L                   | 1MJ8 316–6AC ..                                                                            | 990                            | 95.5              | 0.87              | 275                      | 1543         | 2.1                                                         | 6.6              | 2.3             | 10           | 6.0                        | 1250                           |
| 200                                                                          | 355                     | 1MJ8 353–6AD ..                                                                            | 990                            | 95.6              | 0.86              | 350                      | 1929         | 1.1                                                         | 6.5              | 2.2             | 7            | 8                          | 1900                           |
| 250                                                                          |                         | 1MJ8 356–6AD ..                                                                            | 990                            | 95.8              | 0.85              | 440                      | 2412         | 1.1                                                         | 6.5              | 2.2             | 7            | 9                          | 2200                           |
| 280                                                                          | 355                     | 1MJ1 353–6AD ..                                                                            | 993                            | 96.3              | 0.84              | 500                      | 2693         | 1.05                                                        | 5.8              | 2.4             | 7            | 10.5                       | 2500                           |
| 315                                                                          |                         | 1MJ1 355–6AD ..                                                                            | 993                            | 96.4              | 0.84              | 560                      | 3029         | 1.0                                                         | 5.7              | 2.35            | 7            | 12.5                       | 2700                           |
| 355                                                                          |                         | 1MJ1 357–6AD ..                                                                            | 993                            | 96.5              | 0.85              | 630                      | 3415         | 1.0                                                         | 5.6              | 2.3             | 7            | 12.5                       | 2700                           |
| 400                                                                          | 400                     | 1MJ1 403–6AD ..                                                                            | 994                            | 96.5              | 0.84              | 715                      | 3844         | 1.0                                                         | 5.6              | 2.3             | 7            | 18                         | 3200                           |
| 450                                                                          |                         | 1MJ1 405–6AD ..                                                                            | 994                            | 96.6              | 0.84              | 800 <sup>2)</sup>        | 4323         | 1.0                                                         | 5.5              | 2.25            | 7            | 21.5                       | 3500                           |
| 500                                                                          |                         | 1MJ1 407–6AD ..                                                                            | 994                            | 96.7              | 0.84              | 890 <sup>2)</sup>        | 4805         | 1.05                                                        | 5.7              | 2.3             | 7            | 21.5                       | 3500                           |
| 560                                                                          | 450                     | 1MJ1 453–6AD ..                                                                            | 995                            | 96.9              | 0.85              | 980 <sup>2) 3)</sup>     | 5374         | 0.95                                                        | 5.8              | 2.3             | 7            | 34.0                       | 4600                           |
| 630                                                                          |                         | 1MJ1 455–6AD ..                                                                            | 995                            | 97.0              | 0.85              | 1105 <sup>2) 3) 4)</sup> | 6046         | 0.95                                                        | 5.7              | 2.3             | 7            | 34.0                       | 4600                           |
| 710                                                                          |                         | 1MJ1 457–6AD ..                                                                            | 995                            | 97.1              | 0.85              | 1240 <sup>2) 3) 4)</sup> | 6813         | 0.95                                                        | 5.7              | 2.25            | 7            | 40.0                       | 4900                           |
| 780                                                                          |                         | 1MJ1 458–6AD ..                                                                            | 995                            | 97.2              | 0.85              | 790 <sup>2)</sup>        | 7486         | 1.0                                                         | 6.0              | 2.4             | 7            | 40.0                       | 4900                           |

● Rated current at 690 V.

### Order No. supplements

| Motor type           | Penultimate position: Voltage identifier |                    |        |        | Final position: Type of construction identifier |                  |                                       |                                       |                                      |         |
|----------------------|------------------------------------------|--------------------|--------|--------|-------------------------------------------------|------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------|
|                      | 50 Hz                                    |                    |        |        | IM B 3                                          | Price supplement |                                       |                                       |                                      |         |
|                      | 230 VΔ /<br>400 VΥ                       | 400 VΔ /<br>690 VΥ | 500 VΥ | 500 VΔ |                                                 | IM B 5           | IM V 1<br>With<br>protective<br>cover | IM B 14<br>With<br>standard<br>flange | IM B 14<br>With<br>special<br>flange | IM B 35 |
| 1MJ6 073 to 1MJ6 097 | 1                                        | 6                  | 3      | –      | 0                                               | 1                | 4                                     | 2                                     | 3 <sup>5)</sup>                      | 6       |
| 1MJ6 106 to 1MJ6 166 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | –                                     | –                                    | 6       |
| 1MJ6 186 to 1MJ6 207 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | –                                     | –                                    | 6       |
| 1MJ7 223 to 1MJ7 313 | 1                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | –                                     | –                                    | 6       |
| 1MJ8 313 to 1MJ8 316 | –                                        | 6                  | 3      | 5      | 0                                               | 1                | 4                                     | –                                     | –                                    | 6       |
| 1MJ8 353 to 1MJ8 356 | –                                        | 6                  | 3      | 5      | 0                                               | –                | 4                                     | –                                     | –                                    | 6       |
| 1MJ1 353 to 1MJ1 458 | –                                        | 6                  | 3      | 5      | 0                                               | –                | 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").

2) For connection to 400 V, parallel supply cables are required (see "Technical information", "Connections, circuits and terminal blocks").

3) The motors have two terminal blocks.

4) For connection to 500 V, parallel supply cables are required (see "Technical information", "Connections, circuits and terminal blocks").

5) Only up to 1MJ6 083.

# Squirrel-cage motors

## 1MJ · EEx de IIC type of protection

### Selection and ordering data

| Rated output                                                                 | Size  | Order No.<br>Order No.<br>supplement for voltage and type of construction, see table below | Operating data at rated output |                   |                   |                          |              | Starting torque<br>For direct-on-line starting as multiple of the rated torque | Starting current<br>as multiple of the rated current | Stalling torque | Torque class | Moment of inertia<br><i>J</i> | Weight<br>Type of constr. IM B 3 approx. |
|------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|--------------------------------|-------------------|-------------------|--------------------------|--------------|--------------------------------------------------------------------------------|------------------------------------------------------|-----------------|--------------|-------------------------------|------------------------------------------|
|                                                                              |       |                                                                                            | Rated speed                    | Efficiency $\eta$ | Power factor p.f. | Rated current at 400 V   | Rated torque |                                                                                |                                                      |                 |              |                               |                                          |
| kW                                                                           |       |                                                                                            | rpm                            | %                 |                   | A                        | Nm           |                                                                                |                                                      |                 | KL           | kg m <sup>2</sup>             | kg                                       |
| Temperature classes T1 to T4, IP55 degree of protection, temperature class F |       |                                                                                            |                                |                   |                   |                          |              |                                                                                |                                                      |                 |              |                               | <b>ATEX</b>                              |
| <b>750 rpm, 8-pole, 50 Hz</b>                                                |       |                                                                                            |                                |                   |                   |                          |              |                                                                                |                                                      |                 |              |                               |                                          |
| <b>0.37</b>                                                                  | 90 L  | <b>1MJ6 096-8CB ..</b>                                                                     | 655                            | 61                | 0.76              | 1.16                     | 5.3          | 1.4                                                                            | 2.8                                                  | 1.7             | 13           | 0.0025                        | 28                                       |
| <b>0.55</b>                                                                  |       | <b>1MJ6 097-8CB ..</b>                                                                     | 655                            | 65                | 0.76              | 1.62                     | 7.9          | 1.5                                                                            | 2.9                                                  | 1.7             | 13           | 0.0035                        | 30                                       |
| <b>0.75</b>                                                                  | 100 L | <b>1MJ6 106-8CB ..</b>                                                                     | 665                            | 65                | 0.77              | 2.15                     | 11           | 1.6                                                                            | 3.5                                                  | 1.8             | 13           | 0.0053                        | 40                                       |
| <b>1.1</b>                                                                   |       | <b>1MJ6 107-8CB ..</b>                                                                     | 685                            | 74                | 0.74              | 2.9                      | 16           | 1.8                                                                            | 3.9                                                  | 2               | 13           | 0.0070                        | 48                                       |
| <b>1.5</b>                                                                   | 112 M | <b>1MJ6 113-8CB ..</b>                                                                     | 700                            | 74                | 0.73              | 4.0                      | 21           | 1.8                                                                            | 4.4                                                  | 2               | 13           | 0.013                         | 52                                       |
| <b>2.2</b>                                                                   | 132 S | <b>1MJ6 130-8CB ..</b>                                                                     | 695                            | 74                | 0.72              | 6.0                      | 30           | 1.7                                                                            | 4.2                                                  | 2.1             | 13           | 0.014                         | 78                                       |
| <b>3</b>                                                                     | 132 M | <b>1MJ6 133-8CB ..</b>                                                                     | 700                            | 76                | 0.72              | 7.9                      | 40           | 1.9                                                                            | 4.4                                                  | 2.2             | 13           | 0.019                         | 85                                       |
| <b>4</b>                                                                     | 160 M | <b>1MJ6 163-8CB ..</b>                                                                     | 715                            | 81                | 0.72              | 9.9                      | 54           | 2.1                                                                            | 4.8                                                  | 2.3             | 13           | 0.035                         | 119                                      |
| <b>5.5</b>                                                                   | 160 M | <b>1MJ6 164-8CB ..</b>                                                                     | 710                            | 83                | 0.72              | 13.3                     | 74           | 2.3                                                                            | 5.1                                                  | 2.5             | 13           | 0.043                         | 134                                      |
| <b>7.5</b>                                                                   | 160 L | <b>1MJ6 166-8CB ..</b>                                                                     | 715                            | 84                | 0.72              | 17.9                     | 100          | 2.6                                                                            | 5.8                                                  | 2.8             | 13           | 0.062                         | 159                                      |
| <b>11</b>                                                                    | 180 L | <b>1MJ6 186-8CB ..</b>                                                                     | 725                            | 87                | 0.7               | 26                       | 145          | 2                                                                              | 5                                                    | 2.2             | 13           | 0.21                          | 191                                      |
| <b>15</b>                                                                    | 200 L | <b>1MJ6 207-8CB ..</b>                                                                     | 725                            | 87.5              | 0.78              | 32                       | 198          | 2.1                                                                            | 5                                                    | 2.2             | 13           | 0.37                          | 263                                      |
| <b>18.5</b>                                                                  | 225 S | <b>1MJ7 220-8CB ..</b>                                                                     | 725                            | 88.6              | 0.8               | 37.5                     | 244          | 2.1                                                                            | 5                                                    | 2.2             | 13           | 0.58                          | 325                                      |
| <b>22</b>                                                                    | 225 M | <b>1MJ7 223-8CB ..</b>                                                                     | 725                            | 90.1              | 0.81              | 43.5                     | 290          | 2.1                                                                            | 5                                                    | 2.2             | 13           | 0.66                          | 350                                      |
| <b>30</b>                                                                    | 250 M | <b>1MJ7 253-8CB ..</b>                                                                     | 730                            | 91.6              | 0.81              | 58                       | 392          | 2.1                                                                            | 5                                                    | 2.1             | 13           | 1.1                           | 465                                      |
| <b>37</b>                                                                    | 280 S | <b>1MJ7 280-8CB ..</b>                                                                     | 732                            | 92.7              | 0.82              | 70                       | 483          | 2.2                                                                            | 5.5                                                  | 2.2             | 13           | 1.4                           | 570                                      |
| <b>45</b>                                                                    | 280 M | <b>1MJ7 283-8CB ..</b>                                                                     | 734                            | 92.8              | 0.83              | 84                       | 585          | 2.2                                                                            | 5.5                                                  | 2.2             | 13           | 1.6                           | 620                                      |
| <b>55</b>                                                                    | 315 S | <b>1MJ7 310-8CB ..</b>                                                                     | 738                            | 93.1              | 0.82              | 104                      | 712          | 2.2                                                                            | 6                                                    | 2.4             | 13           | 2.3                           | 780                                      |
| <b>75</b>                                                                    | 315 M | <b>1MJ7 313-8CB ..</b>                                                                     | 738                            | 93.6              | 0.82              | 140                      | 970          | 2.3                                                                            | 6.2                                                  | 2.5             | 13           | 3.0                           | 890                                      |
| <b>90</b>                                                                    | 315 M | <b>1MJ8 313-8AB ..</b>                                                                     | 740                            | 94.4              | 0.79              | 175                      | 1161         | 1.7                                                                            | 6.1                                                  | 2               | 10           | 4.8                           | 1150                                     |
| <b>110</b>                                                                   | 315 M | <b>1MJ8 314-8AB ..</b>                                                                     | 740                            | 94.4              | 0.79              | 210                      | 1420         | 1.7                                                                            | 6.1                                                  | 2               | 10           | 4.8                           | 1150                                     |
| <b>132</b>                                                                   | 315 L | <b>1MJ8 316-8AB ..</b>                                                                     | 740                            | 94.4              | 0.8               | 255                      | 1704         | 1.8                                                                            | 6.1                                                  | 2               | 10           | 6.0                           | 1250                                     |
| <b>160</b>                                                                   | 355   | <b>1MJ8 353-8AD ..</b>                                                                     | 740                            | 95.1              | 0.83              | 292                      | 2065         | 1.3                                                                            | 5.3                                                  | 2.2             | 7            | 12                            | 1900                                     |
| <b>200</b>                                                                   |       | <b>1MJ8 356-8AD ..</b>                                                                     | 740                            | 95.4              | 0.83              | 365                      | 2581         | 1.3                                                                            | 5.3                                                  | 2.2             | 7            | 14.7                          | 2250                                     |
| <b>250</b>                                                                   | 355   | <b>1MJ1 355-8AD ..</b>                                                                     | 743                            | 95.9              | 0.83              | 455                      | 3213         | 1.1                                                                            | 5.4                                                  | 2.25            | 7            | 12.5                          | 2700                                     |
| <b>280</b>                                                                   |       | <b>1MJ1 357-8AD ..</b>                                                                     | 743                            | 96.0              | 0.82              | 515                      | 3597         | 1.15                                                                           | 5.4                                                  | 2.3             | 7            | 12.5                          | 2700                                     |
| <b>315</b>                                                                   | 400   | <b>1MJ1 403-8AD ..</b>                                                                     | 744                            | 96.1              | 0.82              | 580                      | 4043         | 1.0                                                                            | 5.4                                                  | 2.35            | 7            | 17.5                          | 3200                                     |
| <b>355</b>                                                                   |       | <b>1MJ1 405-8AD ..</b>                                                                     | 744                            | 96.2              | 0.82              | 645                      | 4557         | 1.0                                                                            | 5.3                                                  | 2.3             | 7            | 21.0                          | 3500                                     |
| <b>400</b>                                                                   |       | <b>1MJ1 407-8AD ..</b>                                                                     | 744                            | 96.3              | 0.82              | 735                      | 5136         | 0.95                                                                           | 5.2                                                  | 2.25            | 7            | 21.0                          | 3500                                     |
| <b>450</b>                                                                   | 450   | <b>1MJ1 453-8AE ..</b>                                                                     | 745                            | 96.6              | 0.84              | 800 <sup>1)</sup>        | 5769         | 0.85                                                                           | 5.3                                                  | 2.25            | 5            | 35.5                          | 4600                                     |
| <b>500</b>                                                                   |       | <b>1MJ1 455-8AE ..</b>                                                                     | 745                            | 96.7              | 0.83              | 900 <sup>1)</sup>        | 6411         | 0.85                                                                           | 5.2                                                  | 2.2             | 5            | 35.5                          | 4600                                     |
| <b>560</b>                                                                   |       | <b>1MJ1 457-8AE ..</b>                                                                     | 745                            | 96.7              | 0.84              | 1000 <sup>1)</sup> 2) 3) | 7178         | 0.85                                                                           | 5.4                                                  | 2.25            | 5            | 42.0                          | 4900                                     |
| <b>630</b>                                                                   |       | <b>1MJ1 458-8AE ..</b>                                                                     | 745                            | 96.8              | 0.83              | 1130 <sup>1)</sup> 2) 3) | 8075         | 0.9                                                                            | 5.3                                                  | 2.25            | 5            | 42.0                          | 4900                                     |

### Order No. supplements

| Motor type            | Penultimate position: Voltage identifier |                 |        |        | Final position: Type of construction identifier |                  |                              |                              |                             |         |
|-----------------------|------------------------------------------|-----------------|--------|--------|-------------------------------------------------|------------------|------------------------------|------------------------------|-----------------------------|---------|
|                       | 50 Hz                                    |                 |        |        | IM B 3                                          | Price supplement |                              |                              |                             |         |
|                       | 230 VΔ / 400 VY                          | 400 VΔ / 690 VY | 500 VY | 500 VΔ |                                                 | IM B 5           | IM V 1 With protective cover | IM B 14 With standard flange | IM B 14 With special flange | IM B 35 |
| 1MJ6 096 and 1MJ6 097 | 1                                        | 6               | 3      | –      | 0                                               | 1                | 4                            | 2                            | 3 <sup>4)</sup>             | 6       |
| 1MJ6 106 to 1MJ6 166  | 1                                        | 6               | 3      | 5      | 0                                               | 1                | 4                            | –                            | –                           | 6       |
| 1MJ6 186 to 1MJ6 207  | 1                                        | 6               | 3      | 5      | 0                                               | 1                | 4                            | –                            | –                           | 6       |
| 1MJ7 220 to 1MJ7 313  | 1                                        | 6               | 3      | 5      | 0                                               | 1                | 4                            | –                            | –                           | 6       |
| 1MJ8 313 to 1MJ8 316  | –                                        | 6               | 3      | 5      | 0                                               | 1                | 4                            | –                            | –                           | 6       |
| 1MJ8 353 to 1MJ8 356  | –                                        | 6               | 3      | 5      | 0                                               | –                | 4                            | –                            | –                           | 6       |
| 1MJ1 355 to 1MJ1 458  | –                                        | 6               | 3      | 5      | 0                                               | –                | 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 400 V, parallel supply cables are required (see "Technical information", "Connections, circuits and terminal blocks").

2) The motors have two terminal blocks.

3) For connection to 500 V, parallel supply cables are required (see "Technical information", "Connections, circuits and terminal blocks").

4) Only up to 1MJ6 083.