



19.42

Datasheet for SIMOGEAR Geared Motors

MLFB-Ordering data : 2KJ3105-1FL22-9AL1-Z  
D01+G24+G34+K03+K07+L02+L70+M55+N4E

Client order no. : Item no. :  
Order no. : Consignment no. :  
Offer no. : Project :

| Motor data |     |                |                |                |                |                |                |       |                |                |                |                |                       |                       |       |                                |                                |                                |                                |
|------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|-----------------------|-----------------------|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| U          | D/Y | f <sub>N</sub> | P <sub>N</sub> | P <sub>N</sub> | I <sub>N</sub> | n <sub>N</sub> | T <sub>N</sub> | IE-CL | Operating mode | n <sub>2</sub> | T <sub>2</sub> | f <sub>B</sub> | η <sub>4/4 load</sub> | η <sub>3/4 load</sub> | cos φ | I <sub>A</sub> /I <sub>N</sub> | T <sub>A</sub> /T <sub>N</sub> | T <sub>K</sub> /T <sub>N</sub> | T <sub>H</sub> /T <sub>N</sub> |
| [V]        |     | [Hz]           | [kW]           | [hp]           | [A]            | [rpm]          | [Nm]           |       |                | [rpm]          | [Nm]           |                | [%]                   | [%]                   |       |                                |                                |                                |                                |
| 440        | Y   | 60             | 2.200          | 2.95           | 4.23           | 1,760          | 11.93          | IE2   | S1             | 115.258        | 182.29         | 2.47           | 87.5                  | 88.3                  | 0.78  | 8.10                           | 2.50                           | 3.90                           | 2.80                           |

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Motor type                            | 1LE motor with High Efficiency LE100LE4E |
| Number of poles                       | 4-pole                                   |
| Degree of protection                  | (K03) IP65                               |
| Thermal class                         | 155 (F)                                  |
| Moment of inertia J <sub>mot</sub>    | 0.00860 kgm <sup>2</sup>                 |
| Terminal box position                 | (M55) 1A                                 |
| Electrical connection at terminal box | Cable gland metric                       |
| Ventilation                           | Standard fan                             |

| Geared motor                   |                                            |
|--------------------------------|--------------------------------------------|
| Type designation               | SIMOGEAR Z59-LE100LE4E                     |
| Gearbox                        | Helical gearbox Z59                        |
| Mounting type gearbox          | Foot-mounted design                        |
| Output shaft                   | V35 x 70 mm (Solid shaft with feather key) |
| Mounting position              | (D01) M1                                   |
| Transmission ratio             | 15.27 (611 / 40)                           |
| Nominal torque                 | 450.00 Nm                                  |
| Gear oil                       | (K07) Synthetic oil CLP PG VG220           |
| Oil charge                     | 0.7 l                                      |
| Specification                  | CE (Europe / other countries)              |
| Environment temperature        | -15 ... +40 °C                             |
| Weight without oil             | 42.9 kg                                    |
| Housing material first gearbox | Cast iron                                  |

| Gearbox options      |                                               |
|----------------------|-----------------------------------------------|
| Output shaft bearing | Standard bearing                              |
| Output shaft sealing | (G24) Seal for increased environmental stress |
| Gearbox breather     | Pressure breather valve                       |
| Oil level control    | (G34) Oil sight glass                         |
| Oil drain            | Oil drain plug                                |

| Motor options    |         |
|------------------|---------|
| Motor protection | Without |

| General options    |                                                  |
|--------------------|--------------------------------------------------|
| Surface treatments | Painted                                          |
| Coating            | (L02) Coating for normal environmental stress C1 |
| RAL Color          | (L70) 6011 reseda green                          |
| Coating on flange  | -                                                |
| Packing            | Standard packing                                 |

| Further information         |                                       |
|-----------------------------|---------------------------------------|
| General product information | <a href="#">SIMOGEAR</a>              |
| Configurator                | <a href="#">2KJ.....</a>              |
| Operating instructions      |                                       |
| Gearbox                     | <a href="#">BA 2030</a>               |
| Motor                       | <a href="#">BA 2330</a>               |
| Catalog                     | <a href="#">MD 50.1</a> Geared motors |

| Legend                             |                                     |                                             |                                                                       |
|------------------------------------|-------------------------------------|---------------------------------------------|-----------------------------------------------------------------------|
| U = Voltage                        | I <sub>N</sub> = Rated current      | n <sub>2</sub> = Geared motor output speed  | cos φ = Power factor                                                  |
| D / Y = Circuit                    | n <sub>N</sub> = Rated motor speed  | T <sub>2</sub> = Geared motor output torque | I <sub>A</sub> /I <sub>N</sub> = Relative starting current            |
| f = Frequency                      | T <sub>N</sub> = Rated motor torque | f <sub>B</sub> = Service factor             | T <sub>A</sub> /T <sub>N</sub> = Relative starting torque             |
| P <sub>N</sub> = Rated motor power | IE-CL = Efficiency class            | η = Efficiency                              | T <sub>K</sub> /T <sub>N</sub> = Relative breakdown torque            |
|                                    |                                     | *) On request                               | T <sub>H</sub> /T <sub>N</sub> = Relative average acceleration torque |