



0.17.73

Client order no.:  
Order no.:  
Offer no.:

Item no.:  
Consignment no.:  
Project:

| Geared motor basic data          |                               |
|----------------------------------|-------------------------------|
| Type designation:                | SIMOGEAR K149-LE160MPB4P      |
| Gearbox type:                    | Bevel gearbox                 |
| Installation size(s):            | 149                           |
| Application:                     | Standard                      |
| Light-duty sector acc. VDI 3643: | -                             |
| Transmission ratio:              | 49.60                         |
| Number of teeth:                 | 8729 // 176                   |
| Service factor:                  | 2.26 // 2.38                  |
| Nominal torque:                  | 8000 Nm                       |
| Output torque:                   | 3532.53 Nm // 3362.46 Nm      |
| Output speed:                    | 29.7 1/min // 35.8 1/min      |
| Environment temperature:         | -15 ... +40°C                 |
| Specification:                   | CE (Europe / other countries) |
| Additional specifications:       | -                             |
| Weight without oil:              | 322.9 Kg                      |
| Oil quantity:                    | 9.20 L                        |

| Motor options                          |                           |
|----------------------------------------|---------------------------|
| Thermal class:                         | Temperature class 155 (F) |
| Motor protection:                      | -                         |
| Motor plug:                            | -                         |
| Ventilation:                           | Standard fan              |
| Degree of protection:                  | [K01] IP55                |
| Terminal box position:                 | [M55] 1A                  |
| Increased air humidity/temperature:    | -                         |
| Counter Plug:                          | -                         |
| Cable gland:                           | metric                    |
| External ground screw:                 | -                         |
| Motor connection:                      | Standard                  |
| Terminal box potted:                   | -                         |
| Term. Box neutr.:                      | -                         |
| Backstop Motor:                        | -                         |
| Rot. dir. outputshaft                  | -                         |
| Second shaft end:                      | -                         |
| Canopy:                                | -                         |
| Internal corrosion protection:         | -                         |
| Corrosion protect. for motor fittings: | -                         |

| General options                    |                                                  |
|------------------------------------|--------------------------------------------------|
| Surface treatments:                | painted                                          |
| Coating:                           | [L02] Coating for normal environmental stress C1 |
| RAL Color:                         | [L50] 5015 sky blue                              |
| Pretreatment:                      | -                                                |
| Coating on Flange:                 | -                                                |
| Conservation:                      | -                                                |
| Second rating plate:               | -                                                |
| Packaging:                         | Standard packing                                 |
| Enclosed documentation:            | -                                                |
| Additional documentation (E-Mail): | -                                                |
| Fast lane:                         | -                                                |

| Gearbox options                        |                             |
|----------------------------------------|-----------------------------|
| Mounting position:                     | [D11] M1 output side A      |
| Special installation (Angle):          | -                           |
| Permissible mount. position deviation: | -                           |
| Mount. pos. deviation (Angle):         | -                           |
| Mounting type:                         | Foot-mounted design         |
| Position of torque arm:                | -                           |
| Flange diameter:                       | -                           |
| Output flange tightened:               | -                           |
| Output shaft:                          | V90 X 170                   |
| Output shaft bearing:                  | Standard bearing            |
| Hollow shaft cover:                    | -                           |
| Gear oil:                              | [K06] Mineral oil CLP VG220 |
| Output shaft sealing:                  | Standard sealing            |
| Gearbox breather:                      | Pressure breather valve     |
| Oil level control:                     | Oil level screw             |
| Separation switch gear:                | -                           |
| Oil drain:                             | Oil drain plug              |
| Housing material:                      | Cast iron                   |
| Backlash Design:                       | -                           |

| Performance data motor               |                                          |
|--------------------------------------|------------------------------------------|
| Rated power PN:                      | 11.0 // 12.60 kW / 15.0 // 16.90 hp      |
| Efficiency class:                    | IE3 // IE3                               |
| Operating mode:                      | S1                                       |
| Frequency, Voltage   Power:          | 50//60Hz 400VD/690VY // 460VD   50 // 60 |
|                                      |                                          |
| Circuit (start):                     | D/Y (Y-D/Y) // D (Y-D)                   |
| Rated speed nN:                      | 1475 1/min // 1775 1/min                 |
| Number of poles:                     | 4-pole                                   |
| Rated current IN:                    | / 11.84 // 2- A                          |
| Rel. starting current IA / IN:       | 6.90 // 7.10                             |
| Power factor cos phi:                | 0.84 // 0.85                             |
| Load efficiency 4/4-Load η:          | 91.40 % // 92.40 %                       |
| Load efficiency 3/4-Load η:          | 91.40 % // 92.40 %                       |
| Rated motor torque:                  | 71.22 Nm                                 |
| Rel. starting torque TA / TN:        | 2.20 // 2.0                              |
| Average acceleration torque TH / TN: | 2.80 // 2.80                             |
|                                      |                                          |
| Brakedown torque TK / TN:            | 3.20 // 3.20                             |
| Moment of inertia Jmot:              | 0.08300 kg*m²                            |

| Brake data |
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