

## Detailed product description



33.042

Type designation: CAD69-LE80MH4P

Client order no.

Item-No.

Offer no.

Order no.

Consignment no.

Project

### Remarks

Displayed product type: Helical worm geared motor

Type designation: CAD69-LE80MH4P

Motor type: LE80MH4P

Oil volume: 3.00

Weight without oil [kg]: 38.3

Operable temperature range: (K95) -20 ... +40 °C

Nominal output torque [Nm]: 535.0

Output torque 50 Hz [Nm]: 308.8

Output torque 60 Hz [Nm]: 253.7

Service factor 50 Hz: 1.73

Service factor 60 Hz: 2.11

Transmission ratio: 114.21

Output speed 50 Hz [rpm]: 12.61

Output speed 60 Hz [rpm]: 15.32

Specifications: CE; UKCA

1st Voltage 50 Hz [V]: 230 D

2nd Voltage 50 Hz [V]: 400 Y

1st Voltage 60 Hz [V]: 460 Y

2nd Voltage 60 Hz [V]: -

Rated power 50 Hz [kW]: 0.55

Rated power 60 Hz [kW]: 0.55

Operating mode: S1

Data part 1 on rating plate: S1 IE3 50 Hz | S1 IE3 60 Hz

Data part 2 on rating plate: 230 VD / 400 VY 50 Hz 0.55 kW | 460 VY 60 Hz 0.55 kW

Rated speed 50 Hz [rpm]: 1,440

Rated speed 60 Hz [rpm]: 1,750

Rated motor torque 50 Hz [Nm]: 3.65

Rated motor torque 60 Hz [Nm]: 3.00

1st Rated current 50 Hz [A]: 2.20

2nd Rated current 50 Hz [A]: 1.26

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Responsible department IN LVM GM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a> 
<b>INNOMOTICS</b>	Document type Technical Specification	Document status Released			
	Document title <b>2KJ3604-6DC23-4DB2-Z</b> D24+K01+K07+L04+L50+M58	Document number TSS-220824-080915			
Restricted © Innomotics 2024		Revision AA	Creation date 2024-08-22	Language en	Page 1/2

## Detailed product description



33.042

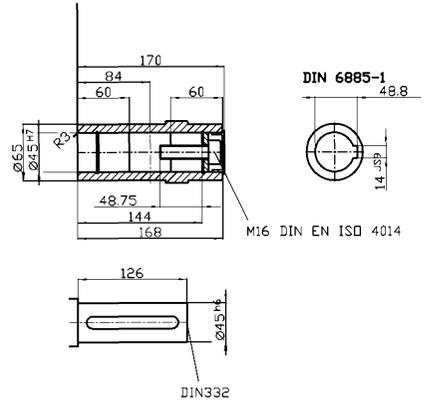
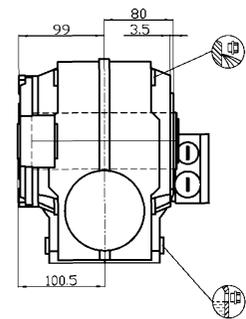
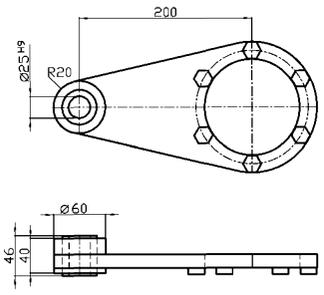
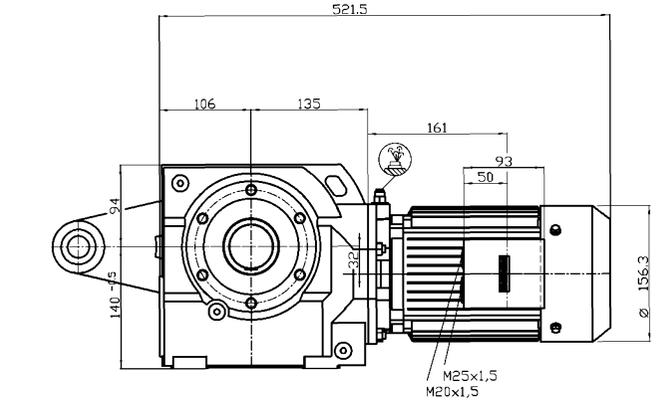
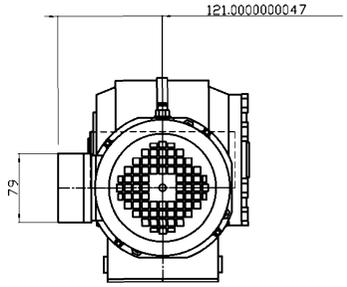
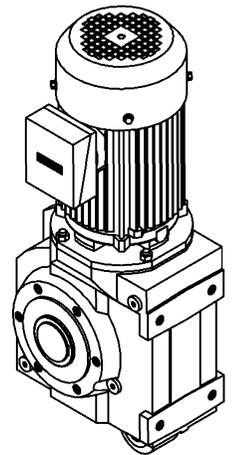
Type designation: CAD69-LE80MH4P

1st Rated current 60 Hz [A]: 1.15  
 Rel. lock.-rot. current 50 Hz: 5.90  
 Rel. lock.-rot. current 60 Hz: 6.90  
 Number of poles: 4-pole  
 Efficiency Class 50 Hz: IE3  
 Efficiency Class 60 Hz: IE3  
 Mounting position: (D24) M4 output side B  
 Mounting type gearbox: Shaft-mounted design (torque arm)  
 Position of torque arm: Enclosed separately  
 Output shaft dimensions [mm]: H45  
 Output shaft type: Hollow shaft  
 Hollow shaft cover: Sealing cap  
 Output shaft sealing: Standard sealing  
 Output shaft bearing: Standard bearing  
 Gearbox oil: (K07) Synthetic oil CLP PG VG220  
 Gearbox venting: Pressure breather valve  
 Oil level control: Oil level screw  
 Oil drain: Oil drain plug  
 Housing material first gearbox: Cast iron  
 Temperature class: Temperature class 155 (F)  
 Degree of protection: (K01) IP55  
 Ventilation: Standard fan  
 Terminal box position: (M58) 1D  
 Electrical connection: Terminal box Cable gland metric  
 Surface treatment: Painted  
 Coating: (L04) Coating for medium environmental stress C3  
 RAL color: (L50) 5015 sky blue

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		Attention: Neither the function rectifier (C59/C60) nor the oil drain valve (G54/G55) can be depicted on the dimension drawing! For more information on this, see page 10/54 of the catalog	
		SIMOGEAR CAD69-LE80MH4P	
Unit	mm [in]	2KJ3604-6DC23-4DB2-Z	
Date	6/19/23	D24+K01+K07+L04+L50+M58	
SIEMENS AG		DT	



32.009

Article No.: **2KJ3604-6DC23-4DB2-Z**  
**D24+K01+K07+L04+L50+M58**

Client order no.:

Item no.:

Order no.:

Consignment no.:

Offer no.:

Project:

### Motor data

U [V]	D/Y	f <sub>N</sub> [Hz]	P <sub>N</sub> [kW]	P <sub>N</sub> [hp]	I <sub>N</sub> [A]	n <sub>N</sub> [rpm]	T <sub>N</sub> [Nm]	IE-CL	Operating mode	n <sub>2</sub> [rpm]	T <sub>2</sub> [Nm]	f <sub>B</sub>	η [%]			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>
													4/4	3/4	2/4					
230	D	50	0.55	0.74	2.19	1,440	3.65	IE3	S1	12.61	308.8	1.73	80.8	81.5	79.3	0.78	5.90	2.10	3.10	0.00
400	Y	50	0.55	0.74	1.26	1,440	3.65	IE3	S1	12.61	308.8	1.73	80.8	81.5	79.3	0.78	5.90	2.10	3.10	0.00
460	Y	60	0.55	0.74	1.15	1,750	3.00	IE3	S1	15.32	253.7	2.11	81.1	80.9	79.2	0.74	6.90	2.70	3.80	0.00

**Motor type** 1LE motor with Premium Efficiency LE80MH4P

**Number of poles** 4-pole

**Degree of protection** (K01) IP55

**Thermal class** 155 (F)

**Moment of inertia J<sub>mot</sub>** 0.00210 kgm<sup>2</sup>

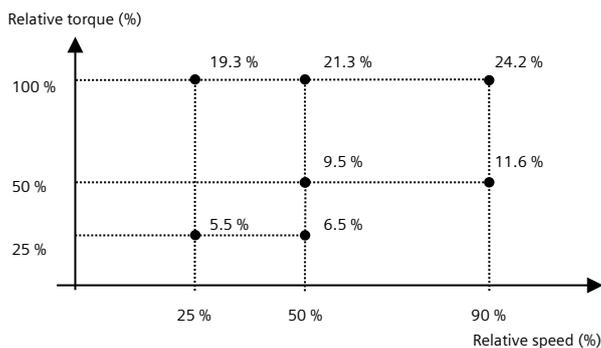
**Terminal box position** (M58) 1D

**Electrical connection at terminal box** Cable gland metric

**Ventilation** Standard fan

### Energy efficiency

Relative power losses according to IEC TS 60034-30-1 (IE)



### Gearbox options

**Position of torque arm** 1

**Hollow shaft cover** Sealing cap

**Output shaft bearing** Standard bearing

**Output shaft sealing** Standard sealing

**Gearbox breather** Pressure breather valve

**Oil level control** Oil level screw

**Oil drain** Oil drain plug

### Motor options

**Motor protection** Without

### General options

**Surface treatments** Painted

**Coating** (L04) Coating for medium environmental stress C3

**RAL Color** (L50) 5015 sky blue

**Coating on flange** -

**Packing** Standard packing

### Geared motor

**Type designation** SIMOGEAR CAD69-LE80MH4P

**Gearbox** Helical worm gearbox CAD69

**Mounting type gearbox** Shaft-mounted design (torque arm)

**Output shaft** H45 mm (Hollow shaft)

**Mounting position** (D24) M4 output side B

**Transmission ratio** 114.21 (1599 / 14)

**Nominal torque** 535 Nm

**Gear oil** (K07) Synthetic oil CLP PG VG220

**Oil charge** 3.0 l

**Specifications** CE; UKCA

**Environment temperature** (K95) -20 ... +40 °C

**Weight without oil** 38.3 kg

**Housing material first gearbox** Cast iron

### Further information

**General product information** [SIMOGEAR](#)

**Configurator** [2KJ.....](#)

**Operating instructions**

**Gearbox** [BA 2030](#)

**Motor** [BA 2330](#)

**Catalog** [D 50.1](#) Geared motors

### Legend

U = Voltage  
D / Y = Circuit  
f = Frequency  
P<sub>N</sub> = Rated motor power

I<sub>N</sub> = Rated current  
n<sub>N</sub> = Rated motor speed  
T<sub>N</sub> = Rated motor torque  
IE-CL = Efficiency class

n<sub>2</sub> = Geared motor output speed  
T<sub>2</sub> = Geared motor output torque  
f<sub>B</sub> = Service factor  
η = Efficiency  
\*) On request

cos φ = Power factor  
I<sub>A</sub>/I<sub>N</sub> = Relative starting current  
T<sub>A</sub>/T<sub>N</sub> = Relative starting torque  
T<sub>K</sub>/T<sub>N</sub> = Relative breakdown torque  
T<sub>H</sub>/T<sub>N</sub> = Relative average acceleration torque