Heidrive

A Company of Allied Motion

Product Portfolio

Contents

Servo motors
HeiMotion Dynamic
Next Generation

HeiMotion Dynamic

Type	U_{ZK} [V_{DC}]	M_o [Nm]	M_n [Nm]	n_n [min^{-1}]	P_n (S1) [W]
HMD06	24 / 48 320 / 560	1.0	1.0	3,000	315
			1.0	6,000	630
	48 320 / 560	1.9	1.7	3,000	530
			1.45	6,000	915
		2.6	2.5	3,000	785
			2.0	6,000	1250
HMD08	24 / 48 320 / 560	2.4	2.3	3,000	720
			2.1	5,500	1210
		3.2	3.0	3,000	940
			2.6	5,500	1500
		4.2	3.9	3,000	1225
			3.4	5,500	1950
		5.7	5.3	3,000	1665
			4.3	5,500	2480
HMD10	48 320 / 560	3.9	3.6	3,000	1130
			3.2	5,000	1675
		5.7	5.2	3,000	1635
			4.0	5,000	2095
		7.6	6.5	3,000	2000
			4.8	5,000	2500
		10.5	8.6	3,000	2700
			5.5	5,000	2900
HMD13	560	13.3	11.5	2,000	2400
			9.0	3,600	3400
		19.0	16.0	2,000	3350
			11.2	3,600	4200
		24.5	20.5	2,000	4300
			13.3	3,600	5000
HMD15	560	36.0	28.0	2,000	5850
			21.0	3,000	6600
		42.5	32.5	2,000	6800
			25.0	3,000	7850
		49.0	37.0	2,000	7750
			29.0	3,000	9110
HMD19	560	51.0	35.5	2,000	7435
			25.5	3,000	8000
		78.0	51.5	2,000	10780
			34.0	3,000	10680
		105.0	66.5	2,000	13920

Ambient conditions and technical characteristics

Motor type		Permanent magnet three-phase synchronous servo motor
Ambient temperature (during operation)		- 10 °C to + 40 °C
Storage temperature (not in operation)		- 20 °C to + 70 °C
Humidity		< 90 % relative humidity (without condensation)
Isolation class		F (= up to 155 °C) Δ T = 115 K
Protection class		IP65 (standard version) (except drive end, here protection class is IP21)
Cooling		Convective (natural cooling)
Bearing lifetime		20,000 h under rated operation conditions (M_n)
Temperature sensor		KTY84-130
Voltage slew rate dU/dt		**14 kV / µs**
Max. installation altitude		4,000 meters above sealevel; starting on from 1,000 meters, derate per 1 % /100 meters will occur.
Concentricity, coaxiality and axial run-out acc. to DIN 42955		N (normal)
Intensity of vibration acc. to ISO 2373		Stage N
Cogging torque factor c_t	HMD06	< 2.0 % based on the stall torque (M_0)
	HMD08	< 1.5 % based on the stall torque (M_0)
	HMD10	< 1.2 % based on the stall torque (M_0)
	HMD13	< 1.0 % based on the stall torque (M_0)
	HMD15	< 1.0 % based on the stall torque (M_0)
	HMD19	< 1.0 % based on the stall torque (M_0)
Coating		Black top coat, RAL 9005
Magnet material		Neodymium-Iron-Boron (NdFeB)
Shaft end		Cylindrical shaft end with / without keyway
Balancing quality		Q 2.5
Encoder systems		Resolver, HIPERFACE®, HIPERFACE DSL®, Incremental encoder, SSI, EnDat 2.2
Approvals		CE, c UL us - certification *

* UL in preparation

Servo motors
HeiMotion Premium

Type	U_{bus} [V_{DC}]	I_o [A]	I_n [A]	M_o [Nm]	M_n [Nm]	M_{max} [Nm]	n_n [rpm]	J [kg-cm²]	P_n (S_1) [W]
HMP04	48	1.8 - 3.4	1.7 - 3.0	0.18	0.14 - 0.16	0.6 - 0.7	3,000 / 6,000	3.00E-02	50 - 85
	320	0.8	0.7		0.12	0.7	9,000		110
	48	3.5 - 6.3	3.3 - 5.7	0.35	0.28 - 0.32	1.3	3,000 / 6,000	5.40E-02	100 - 175
	320	1.6	1.2		0.21	1.4	9,000		200
HMP06	320	0.9 - 1.6	0.8 - 1.3	0.7	0.5 - 0.6	2.8	3,000 / 6,000	2.20E-01	200 - 325
	320	1.8 - 3.3	1.5 - 2.2	1.5	0.9 - 1.2	6.0		4.13E-01	400 - 550
HMP08	320	3.1 - 5.6	2.6 - 3.7	2.8	1.7 - 2.4	11.2	3,000 / 5,500	1.40E00	750 - 1,000
	560	1.8 - 3.3	1.6 - 2.2		1.7 - 2.3				
	320	3.9 - 7.1	3.7 - 4.8	3.5	2.1 - 3.2	14.0		1.93E00	1,000 - 1,200
	560	2.2 - 3.9	2.1 - 2.8		2.1 - 3.2				
HMP10	560	3.4 - 5.4	3.0 - 3.7	5.6	3.4 - 4.8	22.4	3,000 / 5,000	4.84E00	1,500 - 1,800
	560	4.6 - 7.5	4.1 - 5.3	7.5	4.8 - 6.4	30.0		6.41E00	2,000 - 2,500
HMP13	320	4.8 - 8.2	4.1 - 6.0	5.5	4.0 - 4.8	22.0	2,000 / 3,600	9.82E00	1,000 - 1,500
	560	2.7 - 4.7	2.3 - 3.4		4.0 - 4.8	22.0			
		4.4 - 7.7	3.4 - 5.0	9.1	6.0 - 7.2	36.4		1.40E01	1,500 - 2,250
		4.7 - 10.3	4.5 - 6.7	12.3	8.0 - 9.6	49.2		2.11E01	2,000 - 3,000
		8.4 - 14.8	6.5 - 8.0	18.5	10.0 - 14.4	74.0		3.38E01	3,000 - 3,750

Ambient conditions and technical characteristics

Motor type		Permanent magnet three-phase synchronous servo motor
Ambient temperature (during operation)		- 10 °C to + 40 °C
Storage temperature (not in operation)		- 20 °C to + 70 °C
Humidity		< 90 % relative humidity (without condensation)
Isolation class		F (= up to 155 °C) Δ T = 115 K
Protection class		IP65 (standard version) (except drive end, here protection class is IP21)
Cooling		Convective (natural cooling)
Bearing lifetime		20,000 h under rated operation conditions (M_n)
Temperature sensor		KTY84-130
Voltage slew rate dU/dt		8 kV / µs
Max. installation altitude		4,000 meters above sealevel; starting on from 1,000 meters, derate per 1 % /100 meters will occur.
Concentricity, coaxiality and axial run-out acc. to DIN 42955		N (normal)
Intensity of vibration acc. to ISO 2373		Stage N
Cogging torque factor c_t	HMP04	< 2.8 % based on the stall torque (M_0)
	HMP06	< 2.5 % based on the stall torque (M_0)
	HMP08	< 2.0 % based on the stall torque (M_0)
	HMP10	< 1.7 % based on the stall torque (M_0)
	HMP13	< 1.5 % based on the stall torque (M_0)
Coating		Black top coat, RAL 9005
Magnet material		Neodymium-Iron-Boron (NdFeB)
Shaft end		Cylindrical shaft end with / without keyway
Balancing quality		Q 2.5
Encoder systems		Resolver, HIPERFACE®, HIPERFACE DSL®, Inkrementalgeber, SSI, EnDat 2.2
Approvals		CE, c UL us - certification

Min. order quantity 1 pc

Servo motors
HeiMotion Compact

	Type	U_{bus} [V_{DC}]	I_o [A]	I_n [A]	M_o [Nm]	M_n [Nm]	M_{max} [Nm]	n_n [rpm]	J [kg-cm²]	P_n (S1) [W]
Low inertia — *Low inertia for highest dynamic applications*	HMC06	320	0.9	0.8	**0.7**	0.6	2.8	3,000	2.20E-01	200
		320	1.8	1.5	**1.5**	1.2	6.0	3,000	4.13E-01	400
	HMC08	320	3.1	2.6	**2.8**	2.4	11.2	3,000	1.40E00	750
		560	1.8	1.6	**2.8**	2.3	11.2	3,000	1.40E00	750
		320	3.9	3.7	**3.5**	3.2	14.0	3,000	1.93E00	1,000
		560	2.2	2.1	**3.5**	3.2	14.0	3,000	1.93E00	1,000
Middle inertia — *Balanced inertia for optimized synchronization of load and drive*	HMC13	320	4.8	4.1	**5.5**	4.8	22.0	2,000	9.82E00	1,000
		560	2.7	2.3	**5.5**	4.8	22.0	2,000	9.82E00	1,000
		320	7.7	6.1	**9.1**	7.2	36.4	2,000	1.40E01	1,500
		560	4.4	3.4	**9.1**	7.2	36.4	2,000	1.40E01	1,500
		560	4.7	4.5	**12.3**	9.6	49.2	2,000	2.11E01	2,000
		560	8.4	6.5	**18.5**	14.4	74.0	2,000	3.38E01	3,000

Ambient conditions and technical characteristics

Motor type		Permanent magnet three-phase synchronous servo motor
Ambient temperature (during operation)		- 10 °C to + 40 °C
Storage temperature (not in operation)		- 20 °C to + 70 °C
Humidity		< 90 % relative humidity (without condensation)
Isolation class		F (= up to 155 °C) Δ T = 115 K
Protection class		IP65 (standard version) (except drive end, here protection class is IP54)
Cooling		Convective (natural cooling)
Bearing lifetime		20,000 h under rated operation conditions (M_n)
Voltage slew rate dU/dt		8 kV / µs
Max. installation altitude		4,000 meters above sealevel; starting on from 1,000 meters, derate per 1 % /100 meters will occur.
Concentricity, coaxiality and axial run-out acc. to DIN 42955		N (normal)
Intensity of vibration acc. to ISO 2373		Stage N
Cogging torque factor c_t	HMC06 HMC08 HMC13	< 2.5 % based on the stall torque (M_0) < 2.0 % based on the stall torque (M_0) < 1.5 % based on the stall torque (M_0)
Coating		Black top coat, RAL 9005
Magnet material		Neodymium-Iron-Boron (NdFeB)
Shaft end		Cylindrical shaft end with / without keyway
Balancing quality		Q 2.5
Encoder systems		Resolver, HIPERFACE®
Approvals		CE

Min. order quantity 25 pcs

HeiTronX ECONOMY

Servo motors HeiTronX Economy - CanBus

Type	Supply voltage [V]	Rated speed n_n [rpm]	Rated torque M_n [Nm]	Peak torque M_{max} [Nm]	Model
HMPi 04 HTE	24 V_{DC}	3,000	0.16	0.3	HMP04-002
			0.20	0.3	HMP04-004
	48 V_{DC}	3,000	0.16	0.4	HMP04-002
			0.25	0.4	HMP04-004
		6,000	0.13	0.3	HMP04-002
			0.17	0.3	HMP04-004
HMDi 06 HTE	24 V_{DC}	3,000	0.40	0.9	HMD06-005
			0.50	0.9	HMD06-010
			0.60	0.9	HMD06-015
			0.75	1.0	HMD06-020
		6,000	0.20	0.4	HMD06-005
			0.30	0.5	HMD06-010
			0.35	0.5	HMD06-015
			0.40	0.5	HMD06-020
	48 V_{DC}	3,000	0.30	1.8	HMD06-005
			0.40	1.8	HMD06-010
			0.60	1.8	HMD06-015
			0.90	1.8	HMD06-020
		6,000	0.30	0.9	HMD06-005
			0.35	0.9	HMD06-010
			0.40	0.9	HMD06-015
			0.50	0.9	HMD06-020
HMDa 08 HTE	24 V_{DC}	3,000	1.0	2.1	HMD08-020
			1.2	2.4	HMD08-028
			1.3	2.6	HMD08-035
			1.5	3.0	HMD08-050
		5,500	0.7	1.4	HMD08-020
			0.8	1.6	HMD08-028
			0.9	1.8	HMD08-035
			1.0	2.0	HMD08-050
	48 V_{DC}	3,000	1.0	3.5	HMD08-020
			1.4	3.9	HMD08-028
			1.8	4.1	HMD08-035
			2.3	4.5	HMD08-050
		5,500	0.6	2.0	HMD08-020
			0.8	2.3	HMD08-028
			1.0	2.4	HMD08-035
			1.2	2.6	HMD08-050

HeiTronX BASIC

Servo Motors HeiTronX Basic - EtherCAT, CanBus

Type	Supply voltage [V]	Rated speed n_n [rpm]	Rated torque M_n [Nm]	Peak torque M_{max} [Nm]	Model
HMDi06 HTB	48 V_{DC}	3,000	1.0	2.5	HMD06-011
			1.5	3.6	HMD06-019
		5,000	1.0	2.5	HMD06-011
HMDi08 HTB	48 V_{DC}	3,000	1.7	6.0	HMD08-024
			2.1	8.0	HMD08-032
			2.7	10.0	HMD08-042
		5,000	1.6	6.0	HMD08-024
			1.8	6.0	HMD08-032
			2.0	6.0	HMD08-042

HeiTronX PERFORMANCE

Servo motors HeiTronX Performance - EtherCAT, Profibus, CanBus

Type	Supply voltage [V]	Rated speed n_n [rpm]	Rated torque M_n [Nm]	Peak torque M_{max} [Nm]	Model
HMDi06 HTP	24 V_{DC}	3,000	1.03	3.8	HMD06-015-048-30
			1.42	5.0	HMD06-020-048-30
			0.83	3.8	HMD06-015-048-30
			1.06	5.0	HMD06-020-048-30
HMDi08 HTP	24 V_{DC}	3,000	1.55	7.1	HMD08-028-048-30
			2.7	7.3	HMD08-035-048-30
			1.35	7.1	HMD08-028-048-30
			2.2	7.3	HMD08-035-048-30
HMPa 06 HTP	230 V_{DC}	3,000	0.4	2.5	HMP06-007
			1.0	3.5	HMP06-015
		6,000	0.3	1.5	HMP06-007

Min. order quantity 10 pcs

Servo motors with planetary gears

General information

The servo motor series **HeiMotion Premium** and **HeiMotion Dynamic Next Generation** can be complemented by compact, directly mounted gear units with diameters from 40 mm to 100 mm. The modular flanges allow besides the standard combinations even to combine different motor and gearbox sizes to realize special requirements such as high radial loads or various mounting types on the machine.

The **HeiMotion Premium** motors are available in five standard frame sizes:	...and can be combined with the following gear unit sizes:
☐ 40 mm - HMP04	☐ E04 / P05
☐ 60 mm - HMP06	☐ E06 / E07 / P07 / H06 / F06
☐ 80 mm - HMP08	☐ E06 / E07 / E08 / E09 / P07 / P09 / H06 / H08 / F06 / F09
☐ 100 mm - HMP10	☐ E08 / E09 / E10 / P09 / H08 / F09
☐ 130 mm - HMP13	☐ E10
The **HeiMotion Dynamic Next Generation** motors are available in four standard frame sizes:	...and can be combined with the following gear unit sizes:
☐ 60 mm - HMD06	☐ E06 / E07 / P07 / H06 / F06 / V06
☐ 80 mm - HMD08	☐ E06 / E07 / E08 / E09 / P07 / P09 / H06 / H08 / F06 / F09 / V06 / V09
☐ 100 mm - HMD10	☐ E08 / E09 / E10 / P09 / H08 / F09 / V09 / V10
☐ 130 mm - HMD13	☐ E10 / V10

V-Getriebe
Economical gearbox with flange output
Compact design
Optimized for use in industrial trucks (AGV's)
High tilting rigidity

F-Getriebe
Economical flange-gear
Output flange according to DIN ISO 9409
Low backlash
High tilting rigidity

H-Getriebe
Highest radial and axial forces
Low backlash

P-Getriebe
Economical gear
Higher radial and axial forces

E-Getriebe
Economical flange-gear
Output flange according to DIN ISO 9409
Low backlash
High tilting rigidity

Ambient conditions and technical characteristics

Service life at the rated operating conditions	20,000 h *
Minimum operating temperature	- 10 °C
Maximum operating temperature	40 °C
Maximum gear temperature	90 °C *
Lubrication	Lifetime lubrication
Coating motor and gear	Black top coat, RAL 9005
Protection class motor / gear (E, P, F)	IP65 / IP54
Protection class motor / gear (H, V)	IP65 / IP65

* Depending on application and environmental conditions

Optional angular gearbox

As an additional option for the servo modular servo system, an angular stage is possible in two different ratios (i=1 and i=2). These can be combined with the familiar planetary gearbox in sizes 40, 60 and 80. The angular stage is characterized by its compact design and the efficiency-optimized bevel gears with low noise emission. Due to i=2 ratio in the angular stage, a lot of space and costs can be saved with using a single stage gearbox.

Features of gear units

- Low rotational clearance
- High output torques
- High efficiency
- Low noise
- The highest standards for quality
- Flexible mounting position
- Lifetime lubrication
- Same rotating direction of gear unit and motor
- Modular design with additional options available upon request

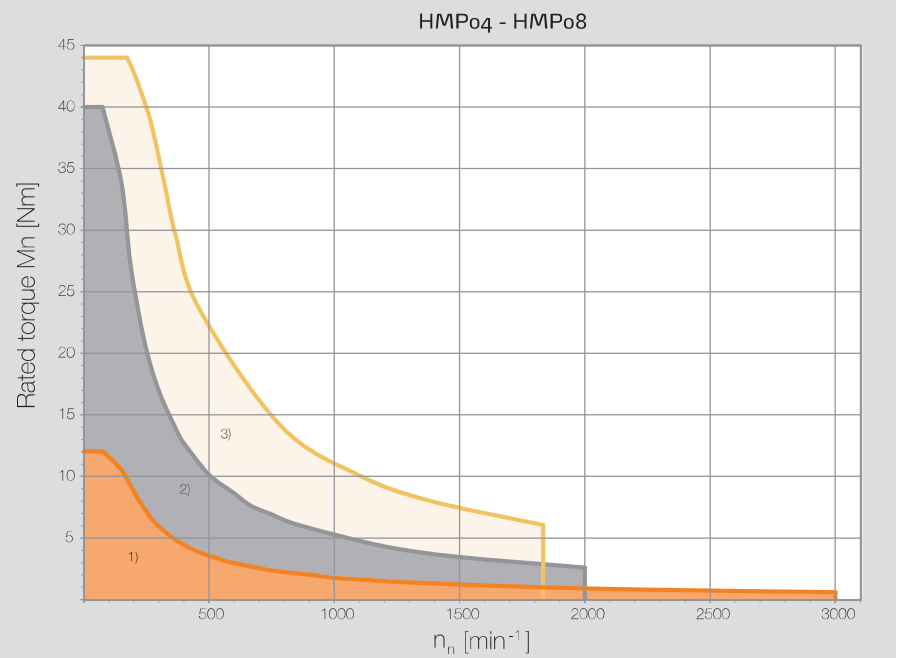
Advantages of the motor-gear combination

- Short length
- Low moment of inertia
- Lightweight
- Low noise
- High efficiency

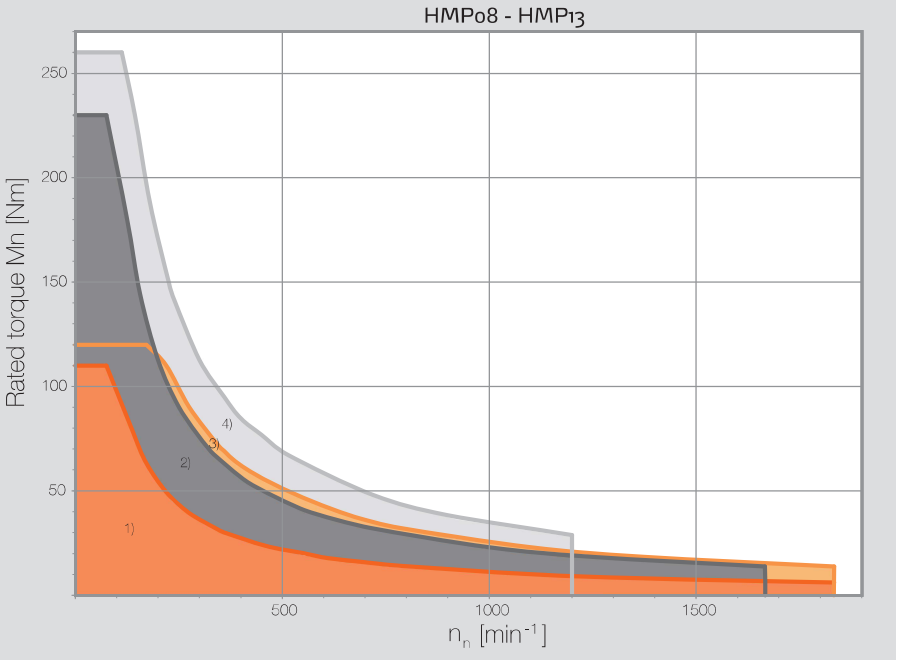
For more information you can also view the catalogs „HMD Next Generation - Servo motors with planetary gears“ or „HMP - Servo motors with planetary gears“.

Servo motors with planetary gears

Rated torque (M_n) of HMP04 - HMP08

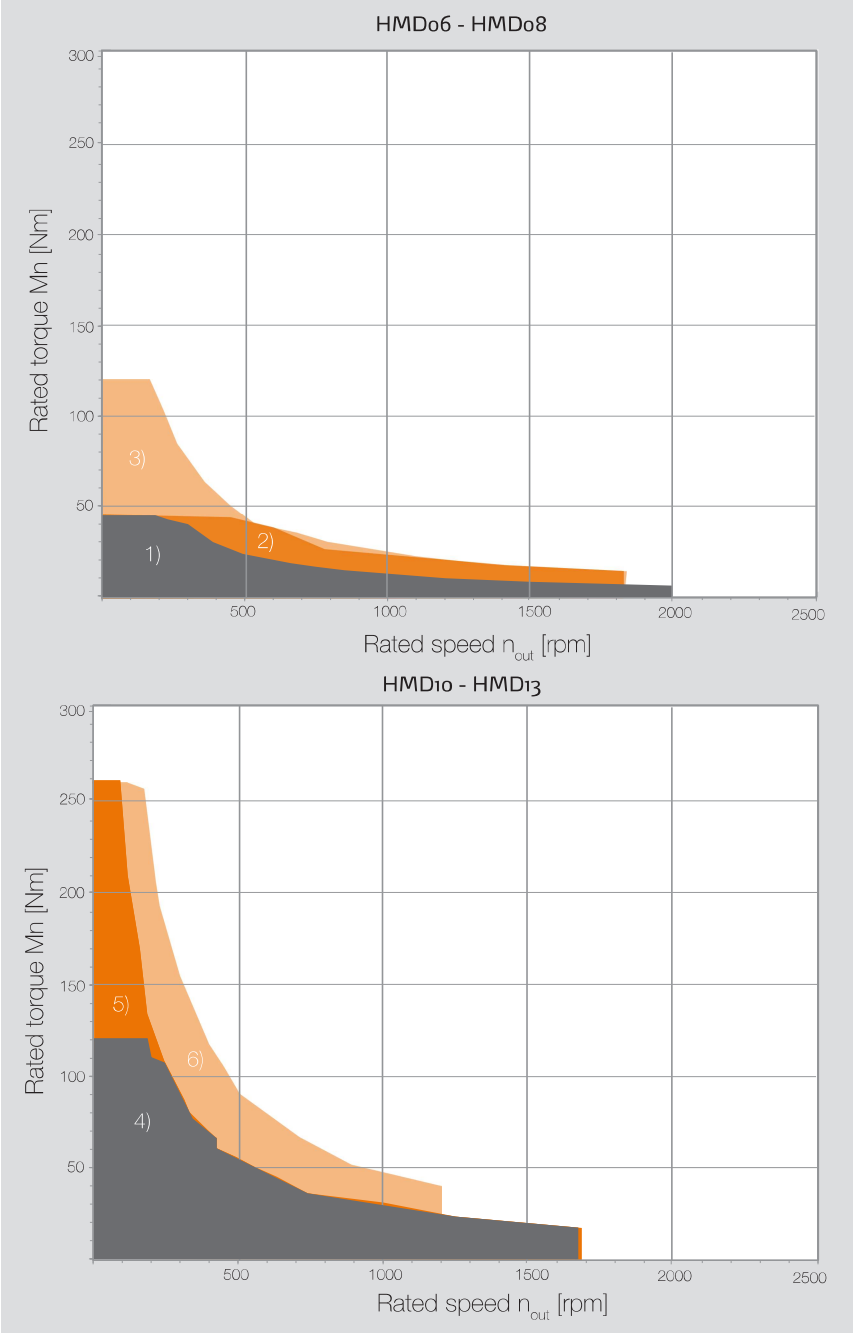


1)	HMP04 E04
	HMP04 P05
2)	HMP06 E06
	HMP06 E07
	HMP06 P07
	HMP06 H06
	HMP06 F06
3)	HMP08 E06
	HMP08 E07
	HMP08 P07
	HMP08 H06
	HMD08 F06



1)	HMP08 E08
	HMP08 E09
	HMP08 P09
	HMP08 H08
	HMP08 F09
2)	HMP10 E10
3)	HMP10 E08
	HMP10 E09
	HMP10 P09
	HMP10 H08
	HMP10 F09
4	HMD13 E10

Rated torque (M_n) of HMD06 - HMD08



1)	HMD06 E06
	HMD06 E07
	HMD06 P07
	HMD06 H06
	HMD06 F06
	HMD06 V06
2)	HMD08 E06
	HMD08 E07
	HMD08 P07
	HMD08 H06
	HMD08 F06
	HMD08 V06
3)	HMD08 E08
	HMD08 E09
	HMD08 P09
	HMD08 H08
	HMD08 F09
	HMD08 V09

4)	HMD10 E08
	HMD10 E09
	HMD10 P09
	HMD10 H08
	HMD10 F09
	HMD10 V09
5)	HMD10 E10
	HMD10 V10
6)	HMD13 E10
	HMD13 V10

Shaded pole motors

Type	Options	Input power [W]	Output power [W]	Rated speed [rpm]	Rated torque [Nm]	Protection class [IP]
123	Without fan standard die cast bearing brackets	10.5 - 22.0	0.7 - 5.4	2,600	0.0026 - 0.0200	00
	With fan standard die cast bearing brackets	33.0 - 51.0	6.5 - 10.9	2,600	0.0240 - 0.0400	00
	Without fan long-life bearing brackets	10.5 - 22.0	0.7 - 5.4	2,600	0.0026 - 0.0200	00
	With fan long-life bearing brackets	33.0 - 51.0	6.5 - 10.9	2,600	0.0240 - 0.0400	00
	With fan reinforced bearing brackets	59.0 - 97.0	16.3 - 29.4	2,600	0.0600 - 0.1080	00

General information

Shaded pole motors are asynchronous squirrel-cage motors for connection to singlephase AC-current. They permit low-cost drive solutions in all fields of electrical engineering, mechanical engineering, appliance and apparatus construction. Their simple, robust and maintenance-free design turns them into successfully usable drive elements.

Heidrive 2-pole shaded motors run with a rated speed of 2,200 to 2,600 rpm at 50 Hz. The 4-pole version runs with 1,200 rpm at 50 Hz. Clockwise or counter clockwise rotation has to be specified with order. A subsequent modification is not possible.

High quality and wide range

Shaded pole motors are characterized by:

- Total reliability
- Long service life
- Maintenance-free

Applications

Heater blowers, ventilators, projectors, photocopying machines, printing machines, refrigerators and cooling air blowers, pumps, medical instruments, machine tools, office machines, scanners, electronical devices.

Min. order quantity 100 pcs

Three-phase-/ capacitor motors

Type	Model	Input-power [W]	Output-power [W]	Rated speed [rpm]	Rated torque [Nm]	Protection class [IP]
Type 203 Ø 58	Three-phase / Capacitor motor	35 - 64	11 - 21	1,200 / 2,600	0.042 - 0.17	40
Type 211 Ø 70	Capacitor motor	60 - 157	26 - 89	2,600	0.095 - 0.325	00 / 40
Type 232 Ø 80	Capacitor motor	102 - 255	48 - 143	2,600 / 2,750	0.17 - 0.53	00 / 40
Type 235 Ø 80	Three-phase / Capacitor motor	69 - 142	32 - 70	1,200 / 1,350	0.227 - 0.60	00 / 40
Type 242 Ø 80	Three-phase motor	140 - 310	80 - 215	2,750	0.28 - 0.74	00 / 40
Type 234 Ø 90	Capacitor motor	162 - 222	94 - 123	1,200 / 2,600	0.33 - 0.98	00 / 40
Type 244 Ø 90	Three-phase motor	330 - 540	216 - 403	2,750	0.75 - 1.40	40
Type 263 Ø 90	Three-phase motor	190 - 305	110 - 205	1,350	0.78 - 1.45	00 / 40

General information

Three-phase motors are asynchronous squirrelcage motors for connection to three-phase current.

Capacitor motors are asynchronous squirrel-cage motors for connection to AC voltage.

Options

- Electronic speed control
- Encoder
- Break
- Axial fan
- Special shaft
- Special flange
- Connection in different types
- Finishing
- Adjustment of characteristic curves

High quality and wide range

Three-phase motors are characterized by:

- Total reliability
- Long service life
- Different capabilities
- Maintenance-free
- Round, balanced operation, symmetrical rotating field
- High starting torque
- High efficiency

Capacitor motors are characterized by:

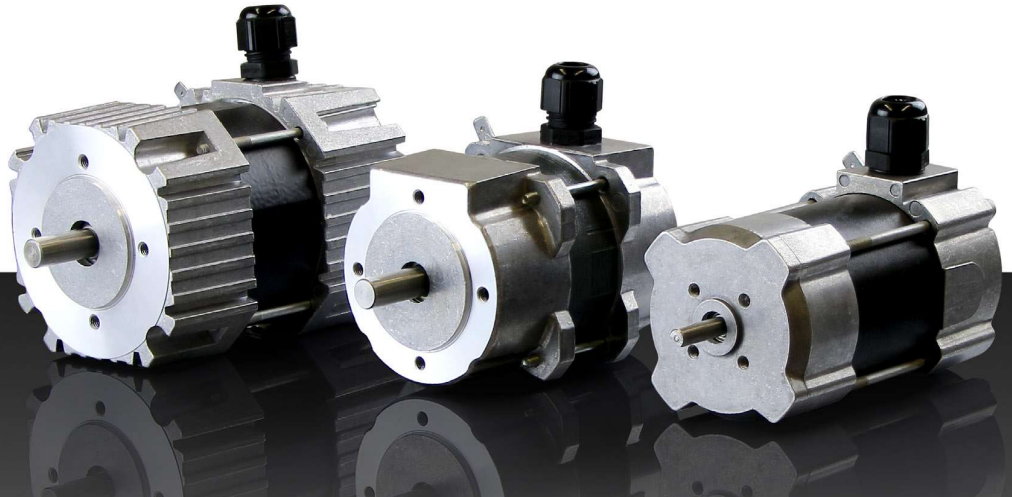
- Total reliability
- Long service life
- Different capabilities
- Maintenance-free

Min. order quantity 50 pcs

EC and BLDC motors

Type	Model	U_{bus} [V_{DC}]	I_o [A]	I_n [A]	M_o [Nm]	M_n [Nm]	M_{max} [Nm]	n_n [rpm]	J [kg-cm²]	P_n (S1) [W]
EC06	EC06-017	24*	2.6	1.7	0.17	0.11	0.5	3,000	1.30E-05	35
		48	1.3	0.9	0.17	0.11	0.5	3,000	1.30E-05	35
		320	0.2	0.1	0.17	0.11	0.5	3,000	1.30E-05	35
	EC06-028	24*	4.4	3.0	0.28	0.19	0.8	3,000	2.17E-05	60
		48	2.2	1.5	0.28	0.19	0.8	3,000	2.17E-05	60
		320	0.3	0.2	0.28	0.19	0.8	3,000	2.17E-05	60
EC07	EC07-034	48	2.8	2.5	0.34	0.30	1.0	3,000	3.19E-05	95
		320	0.4	0.4	0.34	0.30	1.0	3,000	3.19E-05	95
		560	0.3	0.2	0.34	0.30	1.0	3,000	3.19E-05	95
	EC07-051	48	4.0	3.2	0.51	0.41	1.5	3,000	4.79E-05	130
		320	0.7	0.5	0.51	0.41	1.5	3,000	4.79E-05	130
		560	0.4	0.3	0.51	0.41	1.5	3,000	4.79E-05	130
EC08	EC08-075	48*	5.6	3.8	0.75	0.51	2.3	3,000	1.17E-04	160
		320	0.9	0.6	0.75	0.51	2.3	3,000	1.17E-04	160
		560	0.5	0.4	0.75	0.51	2.3	3,000	1.17E-04	160
	EC08-100	48*	7.4	5.2	1.0	0.70	3.0	3,000	1.61E-04	220
		320	1.2	0.8	1.0	0.70	3.0	3,000	1.61E-04	220
		560	0.7	0.5	1.0	0.70	3.0	3,000	1.61E-04	220
BLDC07	BLDC07-067	48	5.7	5.4	0.67	0.64	2.7	3,000	2.55E-05	200
		320	0.9	0.9	0.67	0.64	2.7	3,000	2.55E-05	200
		560	0.5	0.5	0.67	0.64	2.7	3,000	2.55E-05	200
BLDC09	BLDC09-240	48*	19.1	15.2	2.4	1.91	9.6	3,000	1.76E-04	600
		320	3.0	2.4	2.4	1.91	9.6	3,000	1.76E-04	600
		560	1.8	1.4	2.4	1.91	9.6	3,000	1.76E-04	600

* On request



Ambient conditions and technical characteristics

Motor type	Permanent magnet three-phase synchronous motor
Ambient temperature (during operation)	- 10 °C to + 40 °C
Storage temperature (not in operation)	- 20 °C to + 70 °C
Humidity	< 90 % relative humidity (without condensation)
Isolation class	F (= up to 155 °C) $\Delta T = 115$ K
Protection class	IP40
Cooling	Convective (natural cooling)
Bearing lifetime	20,000 h under rated operation conditions (M_n)
Temperature sensor	EC motor: Overheating protection, BLDC motor: KTY 84-130 and PT1000**
Voltage slew rate dU/dt	8 kV / µs
Max. installation altitude	4,000 meters abouve sealevel; starting on from 1,000 meters, derate per 1 % / 100 meters will occur.
Concentricity, coaxiality and axial run-out according to DIN 42955	N (normal)
Intensity of vibration acc. to ISO 2373	Stage N
Coating	Stator core: Black top coat, RAL 9005 Bearing shield: Bright aluminium
Magnet material	EC motor: polymer-bonded neodymium ring, BLDC motor: sintered NdFeB
Shaft end	Cylindrical shaft end
Balancing quality	Q 2.5
Encoder systems	EC motor: RLE *, BLDC motor: HES
Approvals	CE, UL isolation system of Heidrive GmbH

* For type EC07 also HES is applicable
** Optional

Min. order quantity 25 pcs

Notes

HCF servo drive - DC 24 / 48 V

The HCF servo drive is specially designed for direct supply from a 24 / 48 V mains. This enables an extremely compact and cost-optimised design which is limited to the essential elements of the drive unit.

HCD servo drive - AC 230 V

The servo drive HCD is specially designed for supply with single-phase mains supply. It can be controlled either via digital and analog inputs, PLC Motion or via the CANopen fieldbus.

HCB servo drive - The compact

The compact single-axis servo drives of the HCB series are true all-rounders in drive technology. They combine maximum power density with extensive motion control functions.

HCJ servo drive - The allrounder

The modular single-axis servo drives of the HCJ series combine high performance volume and extensive motion control functions in four compact sizes. The high variance of the fieldbus connection and the encoder interfaces enables fast integration into existing industrial plants as well as a solid and future-proof basis for new plants and projects.

Notes

Technical data subject to change! Last changes: 04/2022

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