



Product Portfolio

Servo motors HeiMotion Dynamic Next Generation **p. 4**

Rated power	0.31 - 13.92 kW
Rated speed	up to 6,000 rpm
Stall torque	1.0 - 105 Nm

Servo motors HeiMotion Premium **p. 6**

Rated power	0.05 - 3.75 kW
Rated speed	up to 9,000 rpm
Stall torque	0.18 - 18.5 Nm

Servo motors HeiMotion Compact **p. 8**

Rated power	0.2 - 3.0 kW
Rated speed	up to 3,000 rpm
Stall torque	0.7 - 18.5 Nm

Decentralized drive solutions **p. 10**

Rated power	0.05 - 1.0 kW
Rated speed	up to 6,000 rpm
Rated torque	0.17 - 2.9 Nm

Servo motors with planetary gears p. 12

Rated power	0.05 - 5.0 kW
Rated speed	31 - 3,000 rpm
Rated torque	0.35 - 235 Nm

Shaded pole motors p. 16

Input power	10.5 - 97.0 W
Rated speed	up to 2,600 rpm
Rated torque	0.0026 - 0.1080 Nm

Three-phase-/ capacitor motors p. 18

Input power	35 - 540 W
Rated speed	up to 2,750 rpm
Rated torque	0.042 - 1.45 Nm

EC and BLDC motors p. 20

Rated power	35 - 600 W
Rated speed	up to 3,000 rpm
Stall torque	0.17 - 2.4 Nm

Servo drives p. 22

- HCF servo drive - DC 24 / 48 V
- HCD servo drive - AC 230 V
- HCB servo drive - The compact
- HCJ servo drive - The allrounder

Servo motors


- HeiMotion Dynamic Next Generation



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		
			2.5	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) $\Delta T = 115 K$	
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 HMD08 HMD10 HMD13 HMD15 HMD19	< 2.0 % based on the stall torque (M_0) < 1.5 % based on the stall torque (M_0) < 1.2 % based on the stall torque (M_0) < 1.0 % based on the stall torque (M_0) < 1.0 % based on the stall torque (M_0) < 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,  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-cm ²]	P_n (S1) [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

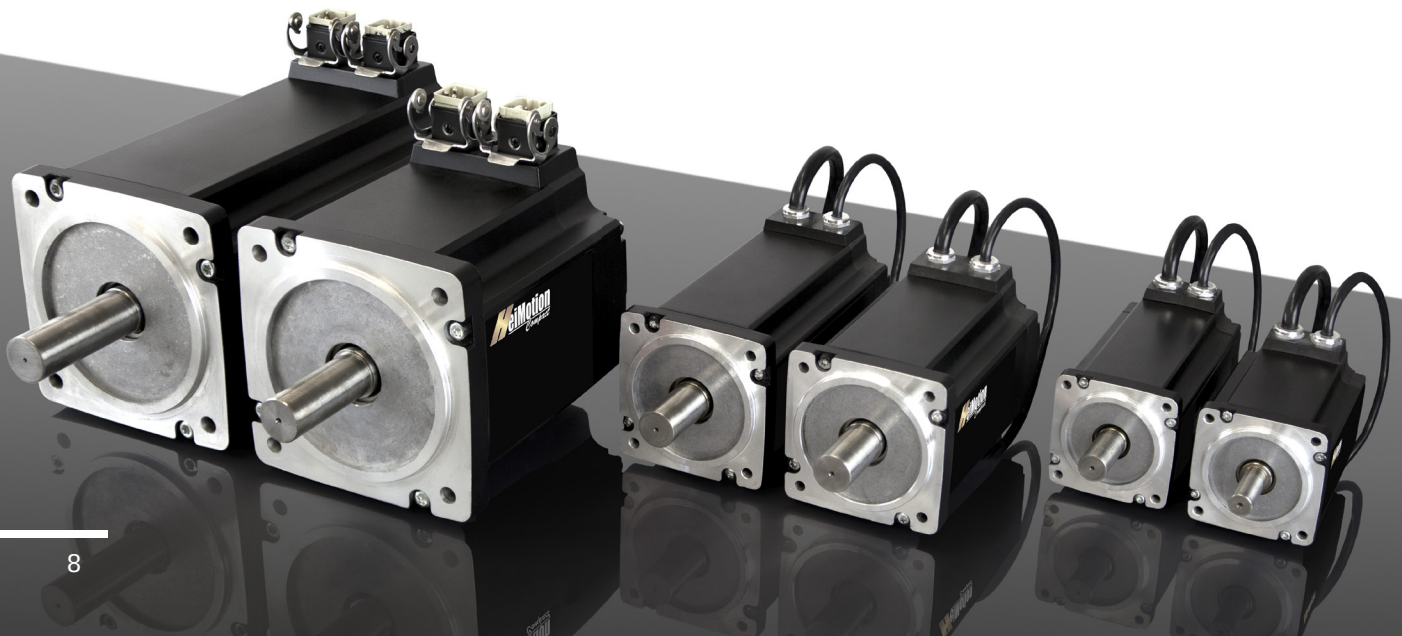
Motor type	Permanent magnet three-phase synchronous servo motor	
Ambient temperature (during operation)	- 10 °C to + 40 °C	
Storage temperature (not in operation)	- 20 °C to + 70 °C	
Humidity	< 90 % relative humidity (without condensation)	
Isolation class	F (= up to 155 °C) $\Delta T = 115 K$	
Protection 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,  - 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-cm ²]	P_n (S1) [W]
Low inertia <i>Low inertia for highest dynamic applications</i>	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 <i>Balanced inertia for optimized synchronization of load and drive</i>	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) $\Delta T = 115 K$	
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	< 2.5 % based on the stall torque (M_0)
	HMC08	< 2.0 % based on the stall torque (M_0)
	HMC13	< 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

Decentralized drive solutions



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				



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



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:

- 40 mm - HMP04
- 60 mm - HMP06
- 80 mm - HMP08
- 100 mm - HMP10
- 130 mm - HMP13

...and can be combined with the following gear unit sizes:

- E04 / P05
- E06 / E07 / P07 / H06 / F06
- E06 / E07 / E08 / E09 / P07 / P09 / H06 / H08 / F06 / F09
- E08 / E09 / E10 / P09 / H08 / F09
- E10

The **HeiMotion Dynamic Next Generation** motors are available in four standard frame sizes:

- 60 mm - HMD06
- 80 mm - HMD08
- 100 mm - HMD10
- 130 mm - HMD13

...and can be combined with the following gear unit sizes:

- E06 / E07 / P07 / H06 / F06 / V06
- E06 / E07 / E08 / E09 / P07 / P09 / H06 / H08 / F06 / F09 / V06 / V09
- E08 / E09 / E10 / P09 / H08 / F09 / V09 / V10
- 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

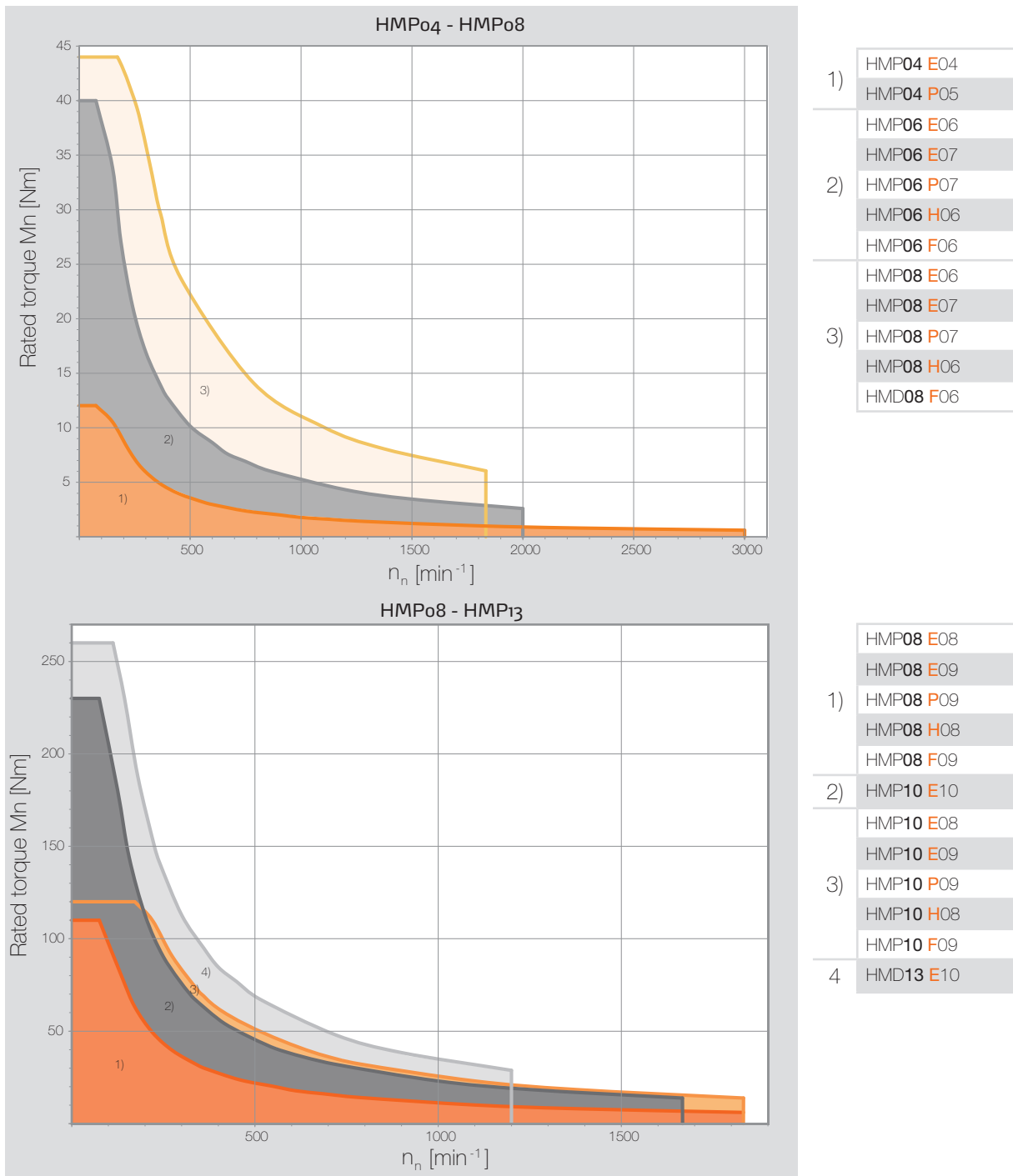
Advantages of the motor-gear combination

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

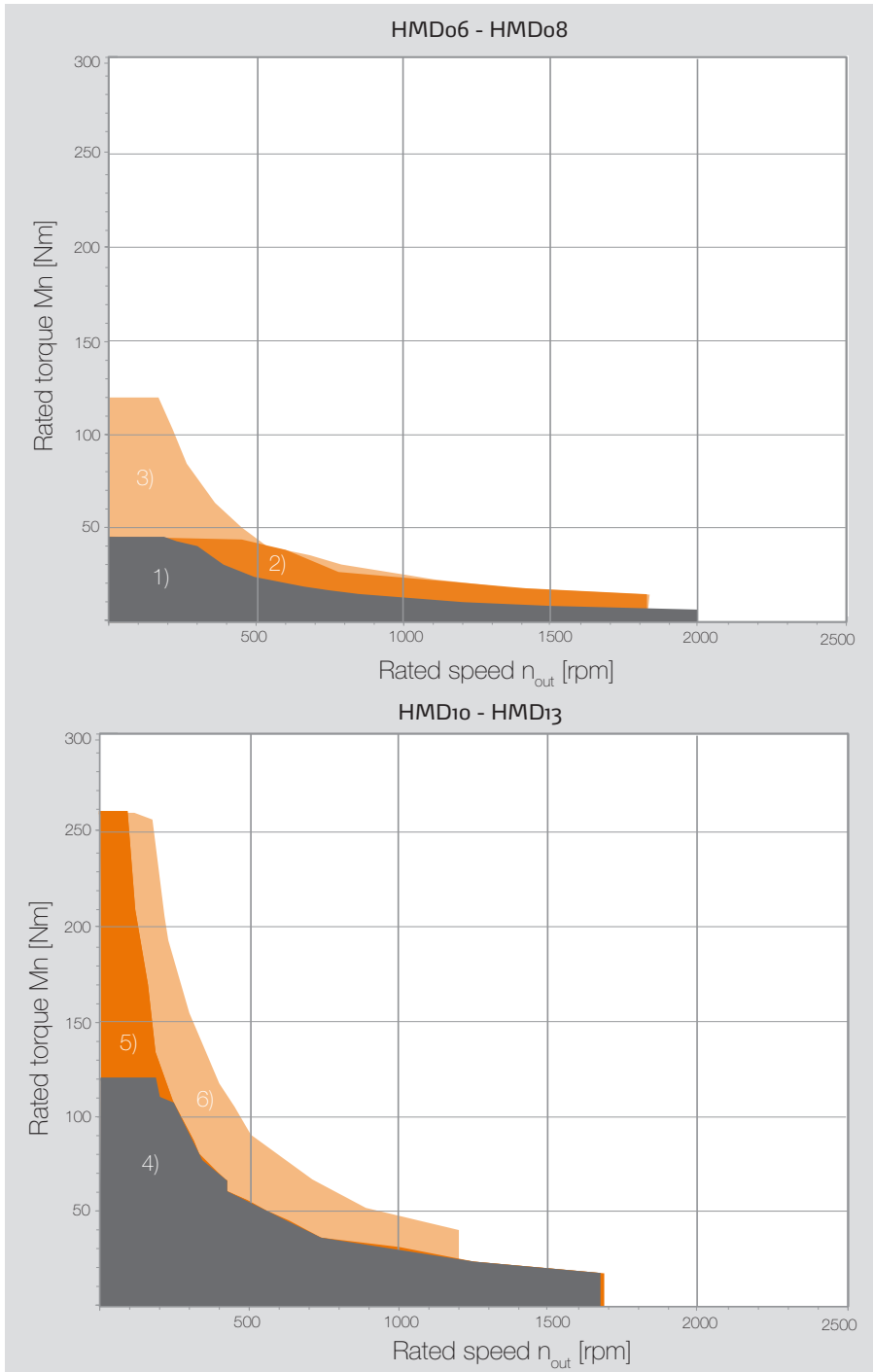
For more information you can also view the catalogs „HMD Next Generation - Servo motors with planetary gears“ or „HMP - Servo motors with planetary gears“.

Servo motors with planetary gears

Rated torque (M_n) of HMP04 - HMP08



Rated torque (M_n) of HMD06 - HMD08

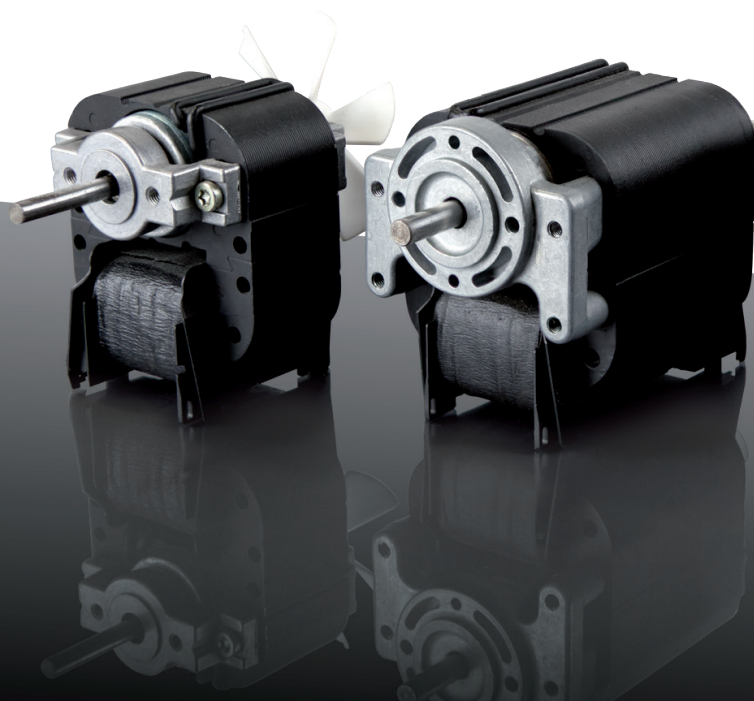


HMD06 E06
HMD06 E07
HMD06 P07
1) HMD06 H06
HMD06 F06
HMD06 V06
HMD08 E06
HMD08 E07
2) HMD08 P07
HMD08 H06
HMD08 F06
HMD08 V06
HMD08 E08
HMD08 E09
3) HMD08 P09
HMD08 H08
HMD08 F09
HMD08 V09

HMD10 E08
HMD10 E09
4) 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	Output power	Rated speed	Rated torque	Protection class
		[W]	[W]	[rpm]	[Nm]	[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:

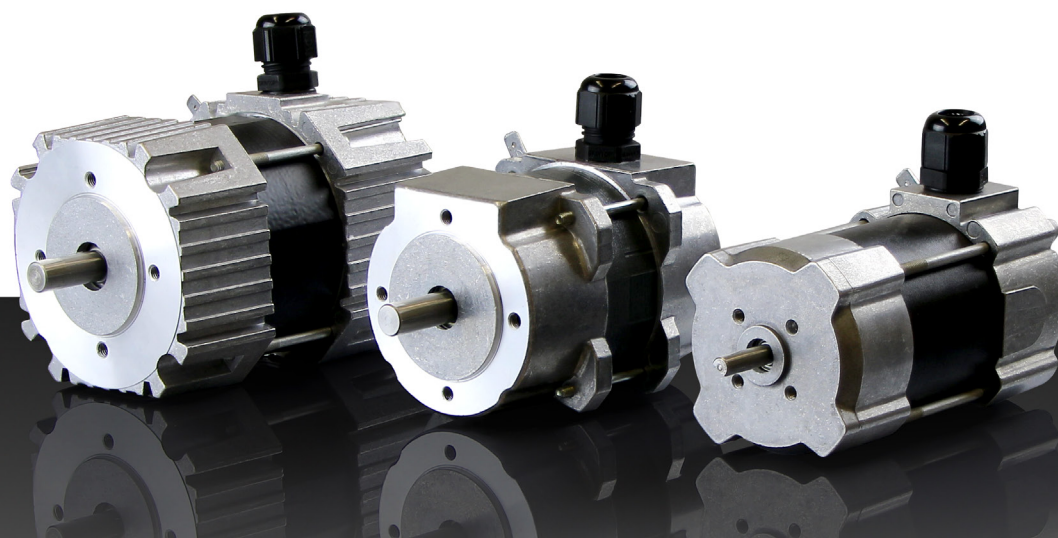
- Total reliability
- Long service life
- Different capabilities
- Maintenance-free

Min. order quantity 50 pcs

■ EC and BLDC motors

Type	Model	U_{bus}	I_o	I_n	M_o	M_n	M_{max}	n_n	J	$P_n (S_1)$
		[V _{dc}]	[A]	[A]	[Nm]	[Nm]	[Nm]	[rpm]	[kg-cm ²]	[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_r)
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 above 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

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.

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



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