



Product Portfolio

Shaded pole motors **p. 4**

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. 6**

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

EC and BLDC motors **p. 8**

Rated power	35 - 800 W
Rated speed	up to 3,000 rpm
Stall torque	0.17 - 3.2 Nm

Servo motors HeiMotion Dynamic **p. 10**

Rated power	0.05 - 3.15 kW
Rated speed	up to 9,000 rpm
Stall torque	0.2 - 9.3 Nm

Servo motors HeiMotion Premium p. 12

Rated power	0.05 - 14.0 kW
Rated speed	up to 9,000 rpm
Stall torque	0.18 - 110 Nm

Servo motors HeiMotion Compact p. 14

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. 16

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. 18

Rated power	0.05 - 3.7 kW
Rated speed	47 - 3,000 rpm
Rated torque	0.35 - 342 Nm

■ 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	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]
EC06-017	24 *	2.6	1.7	0.17	0.11	0.5	3,000	1.30E-05	35
	48	1.3	0.9						
	320	0.2	0.1						
EC06-028	24 *	4.4	3.0	0.28	0.19	0.8	3,000	2.17E-05	60
	48	2.2	1.5						
	320	0.3	0.2						
EC07-034	48	2.8	2.5	0.34	0.30	1.0	3,000	3.19E-05	95
	320	0.4	0.4						
	560	0.3	0.2						
EC07-051	48	4.0	3.2	0.51	0.41	1.5	3,000	4.79E-05	130
	320	0.7	0.5						
	560	0.4	0.3						
EC07-068	48 *	5.2	4.4	0.68	0.57	2.0	3,000	6.38E-05	180
	320	0.9	0.7						
	560	0.5	0.4						
EC08-075	48 *	5.6	3.8	0.75	0.51	2.3	3,000	1.17E-04	160
	320	0.9	0.6						
	560	0.5	0.4						
EC08-100	48 *	7.4	5.2	1.0	0.70	3.0	3,000	1.61E-04	220
	320	1.2	0.8						
	560	0.7	0.5						
BLDC07-067	48	5.7	5.4	0.67	0.64	2.7	3,000	2.55E-05	200
	320	0.9	0.9						
	560	0.5	0.5						
BLDC07-135	48	10.6	10.0	1.35	1.27	5.4	3,000	5.10E-05	400
	320	1.8	1.7						
	560	1.0	1.0						
BLDC09-240	48 *	19.1	15.2	2.4	1.91	9.6	3,000	1.76E-04	600
	320	3.0	2.4						
	560	1.8	1.4						
BLDC09-320	48 *	24.9	19.9	3.2	2.55	12.8	3,000	2.35E-04	800
	320	4.0	3.2						
	560	2.2	1.8						

* 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
Voltage slew rate dU/dt	8 kV / μ s
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

Min. order quantity 25 pcs


■ Servo motors
HeiMotion Dynamic



Type	U_{bus} [V _{DC}]	M_o [Nm]	M_n [Nm]	n_n [rpm]	P_n (S1) [W]
HMD04	24 / 48 320 / 560	0.3	0.19	3,000	60
			0.16	6,000	100
			0.13	9,000	125
		0.6	0.56	3,000	175
			0.48	6,000	300
			0.37	9,000	350
HMD06	24 / 48 320 / 560	1.1	0.86	3,000	275
			0.70	6,000	440
		1.7	1.46	3,000	460
			1.09	6,000	685
		2.2	2.01	3,000	630
			1.60	6,000	1,000
HMD08	24 / 48 320 / 560	2.3	1.84	3,000	575
			1.50	5,500	865
		3.2	2.76	3,000	865
			1.96	5,500	1,125
		4.0	3.68	3,000	1,150
			2.42	5,500	1,400
	48 320 / 560	5.7	5.52	3,000	1,735
			3.34	5,500	1,900
HMD10	48 320 / 560	3.5	3.20	3,000	1,000
			2.30	5,000	1,200
	320 / 560	7.0	6.00	3,000	1,900
			4.80	5,000	2,500
	320 / 560	9.3	7.60	3,000	2,400
			6.00	5,000	3,150



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) $\Delta T = 115 \text{ K}$	
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	HMD04	< 2.5 % based on the stall torque (M_0)
	HMD06	< 2.0 % based on the stall torque (M_0)
	HMD08	< 1.5 % based on the stall torque (M_0)
	HMD10	< 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,  - certification *	

* UL in preparation

Min. order quantity 1 pc


Servo motors HeiMotion Premium



Type	U_{bus} [Vdc]	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
HMP15	560	8.6	7.5	20.0	17.0	60.0	2,000	2.75E01	3,500
		11.4	10.0	28.0	24.0	84.0		4.75E01	5,000
		15.1	13.2	35.0	30.0	105.0		6.05E01	6,500
		12.5	9.5	20.0	15.0	60.0	3,000	2.75E01	4,750
		18.0	13.0	28.0	20.0	84.0		4.75E01	6,250
		21.2	14.9	35.0	24.0	105.0		6.05E01	7,500
HMP19	560	12.7	9.1	28.0	20.0	84.0	2,000	6.21E01	4,200
		18.3	11.3	45.0	27.0	135.0		9.06E01	5,500
		23.0	14.9	57.0	36.0	171.0		1.23E02	7,500
		34.2	22.1	82.0	52.0	246.0	3,000	1.77E02	11,000
		45.7	28.1	110.0	66.0	330.0		2.43E02	14,000
		12.7	10.3	22.0	17.5	66.0		6.21E01	5,500
		17.0	13.8	30.0	24.0	90.0		9.06E01	7,500
		23.7	17.3	42.0	30.0	126.0		1.23E02	9,500
		36.0	24.6	60.0	40.0	180.0		1.77E02	12,500



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 HMP06 HMP08 HMP10 HMP13 HMP15 HMP19	< 2.8 % based on the stall torque (M_0) < 2.5 % based on the stall torque (M_0) < 2.0 % based on the stall torque (M_0) < 1.7 % based on the stall torque (M_0) < 1.5 % based on the stall torque (M_0) < 1.5 % 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®, 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 pc

HeiMotion motors with integrated drive electronic

The HeiMotion servo motors with integrated drive electronic are distinguished by their extremely compact design. The space-saving drives can be configured in the following versions:

Type	Supply voltage [V]	Rated speed n_n [rpm]	Rated torque M_n [Nm]	Peak torque M_{max} [Nm]	Power output P_n [W]	Model	Page				
HMPi 04	24 V _{DC}	3,000	0.16	0.3	50	HMP04-002	p. 10				
			0.20	0.3	65	HMP04-004					
	48 V _{DC}	3,000	0.16	0.4	50	HMP04-002					
			0.25	0.4	80	HMP04-004					
		6,000	0.13	0.3	80	HMP04-002					
			0.17	0.3	100	HMP04-004					
HMDi 06	24 V _{DC}	3,000	0.40	0.9	125	HMD06-005	p. 12				
			0.50	0.9	160	HMD06-010					
			0.60	0.9	190	HMD06-015					
			0.75	1.0	230	HMD06-020					
		6,000	0.20	0.4	130	HMD06-005					
			0.30	0.5	190	HMD06-010					
			0.35	0.5	220	HMD06-015					
			0.40	0.5	250	HMD06-020					
	48 V _{DC}	3,000	0.30	1.8	95	HMD06-005					
			0.40	1.8	125	HMD06-010					
			0.60	1.8	190	HMD06-015					
			0.90	1.8	280	HMD06-020					
		6,000	0.30	0.9	190	HMD06-005					
			0.35	0.9	220	HMD06-010					
			0.40	0.9	250	HMD06-015					
			0.50	0.9	315	HMD06-020					
			HMDi 08	48 V _{DC}	3,000	1.10		1.8	355	HMD08-020	p. 14
						1.20		2.5	375	HMD08-028	
5,500	0.60	0.9	345		HMD08-020						



HeiMotion motors with attached drive electronic

The HeiMotion servo motors with attached electronics, on the other hand, are particularly suitable for performance-oriented applications. The powerful drives can be configured in the following versions:

Type	Supply voltage [V]	Rated speed n_n [rpm]	Rated torque M_n [Nm]	Peak torque M_{max} [Nm]	Power output P_n [W]	Model	Page
HMDa 06	24 V _{DC}	3,000	0.4	1.2	130	HMD06-010	p. 16
			0.5	1.5	170	HMD06-015	
			0.6	2.0	195	HMD06-020	
		6,000	0.3	0.9	180	HMD06-010	
	48 V _{DC}	3,000	0.4	1.6	130	HMD06-010	
			0.8	2.4	240	HMD06-015	
			1.1	3.3	340	HMD06-020	
		6,000	0.4	0.9	220	HMD06-010	
			0.5	1.3	330	HMD06-015	
			0.6	2.4	375	HMD06-020	
HMPa 06	230 V _{AC}	3,000	0.4	2.5	130	HMP06-007	p. 16
			1.0	3.5	300	HMP06-015	
		6,000	0.3	1.5	180	HMP06-007	
HMDa 08 (H01)	24 V _{DC}	3,000	1.0	2.1	300	HMD08-020	p. 18
			1.2	2.4	380	HMD08-028	
			1.3	2.6	410	HMD08-035	
			1.5	3.0	470	HMD08-050	
		5,500	0.7	1.4	400	HMD08-020	
			0.8	1.6	460	HMD08-028	
			0.9	1.8	520	HMD08-035	
			1.0	2.0	575	HMD08-050	
	48 V _{DC}	3,000	1.0	3.5	310	HMD08-020	
			1.4	3.9	440	HMD08-028	
			1.8	4.1	560	HMD08-035	
			2.3	4.5	720	HMD08-050	
		5,500	0.6	2.0	340	HMD08-020	
			0.8	2.3	460	HMD08-028	
			1.0	2.4	580	HMD08-035	
			1.2	2.6	690	HMD08-050	
HMDa 08 (MOx)	48 V _{DC}	3,000	1.0	2.2	300	HMD08-020	p. 20
			1.1	2.4	340	HMD08-028	
		5,500	0.5	1.4	290	HMD08-020	
HMPa 08	230 V _{AC}	3,000	1.0	4.0	300	HMP08-028	p. 20
		5,500	0.6	2.4	290	HMP08-028	

Min. order quantity 10 pcs

Servo motors with planetary gears



General information

The servo motor series **HeiMotion Premium** and **HeiMotion Dynamic** 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** motors are available in two standard frame sizes:

- 60 mm - HMD06
- 80 mm - HMD08

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

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

H-Gears

Highest radial and axial forces
Low backlash

E-Gears

Economical gear for standard applications
Highest variance
Round and square mounting flange

F-Gears

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

P-Gears

Economical gear
Higher radial and axial forces

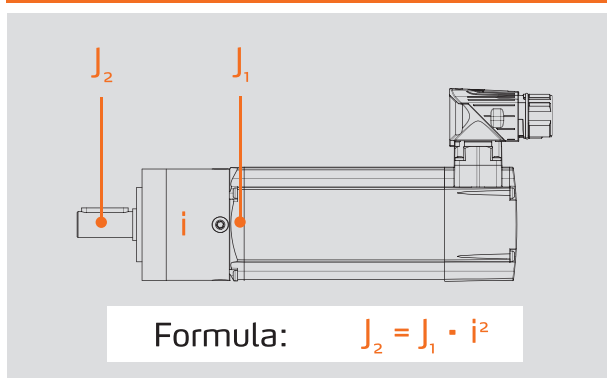


Ambient conditions and technical characteristics

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	IP65 / IP54

* Depending on application and environmental conditions

Calculation of the moments of inertia



- The moments of inertia specified in this catalog refer to the motor shaft or the geared drive (J_1)
- Indicated is the total moment of inertia of the motor, the gear and (if mounted) the brake
- Designation moment of inertia: J_1 , unit: kg-cm²
- Calculation of the moment of inertia of the drive side (J_2), see formula

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

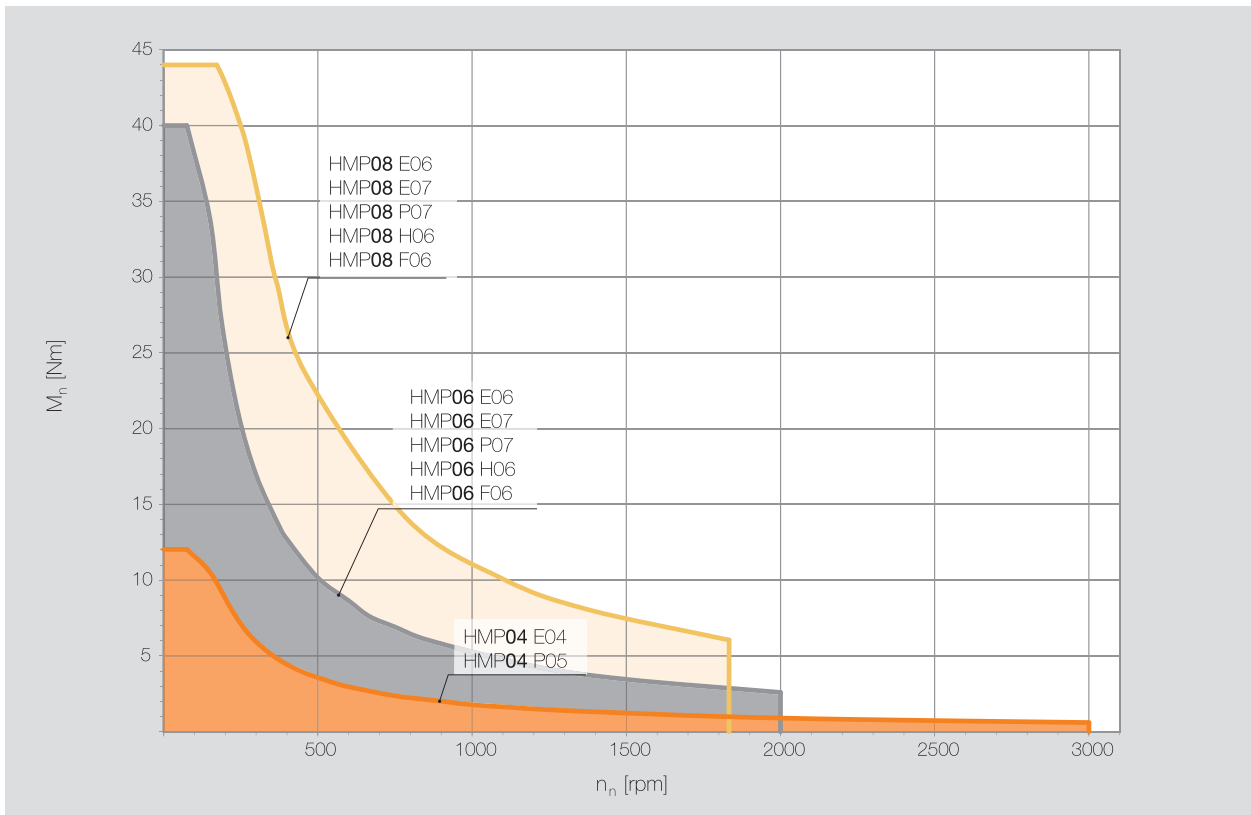
Advantages of the motor-gear combination

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

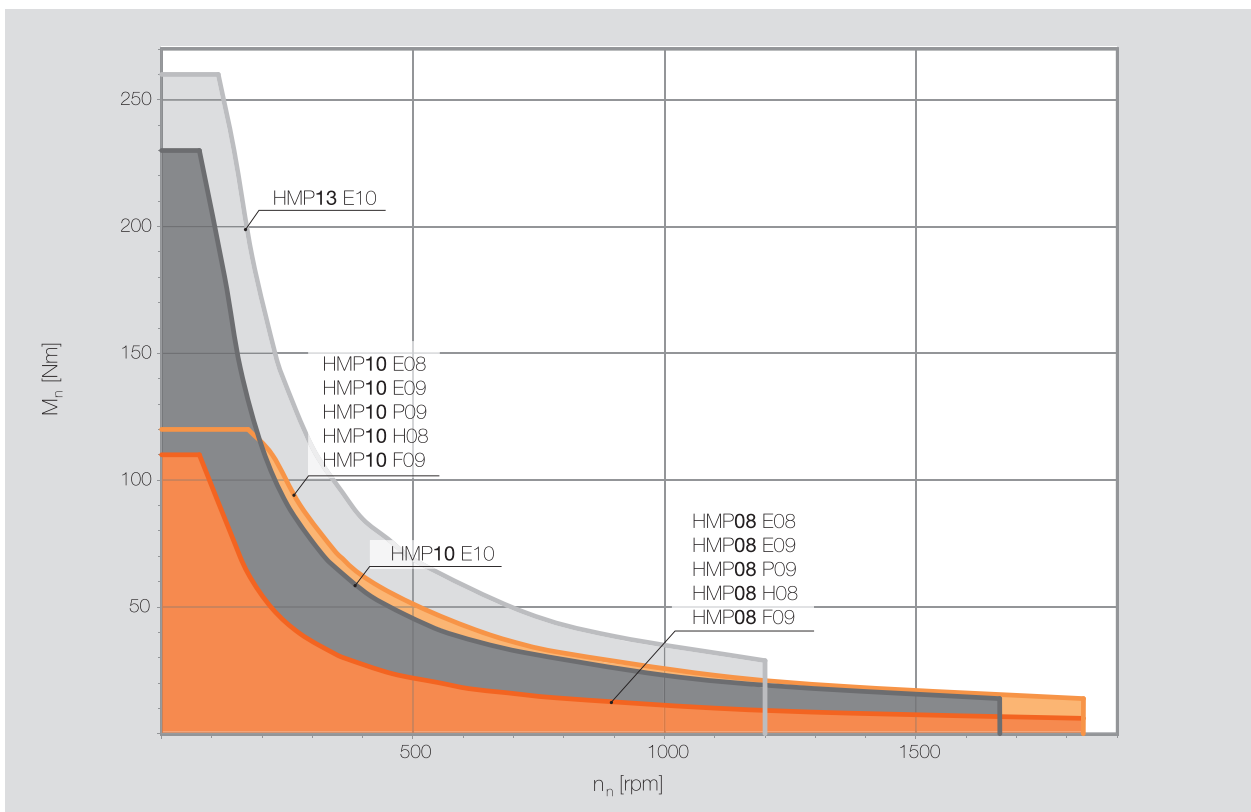
Min. order quantity 25 pcs

Servo motors with planetary gears

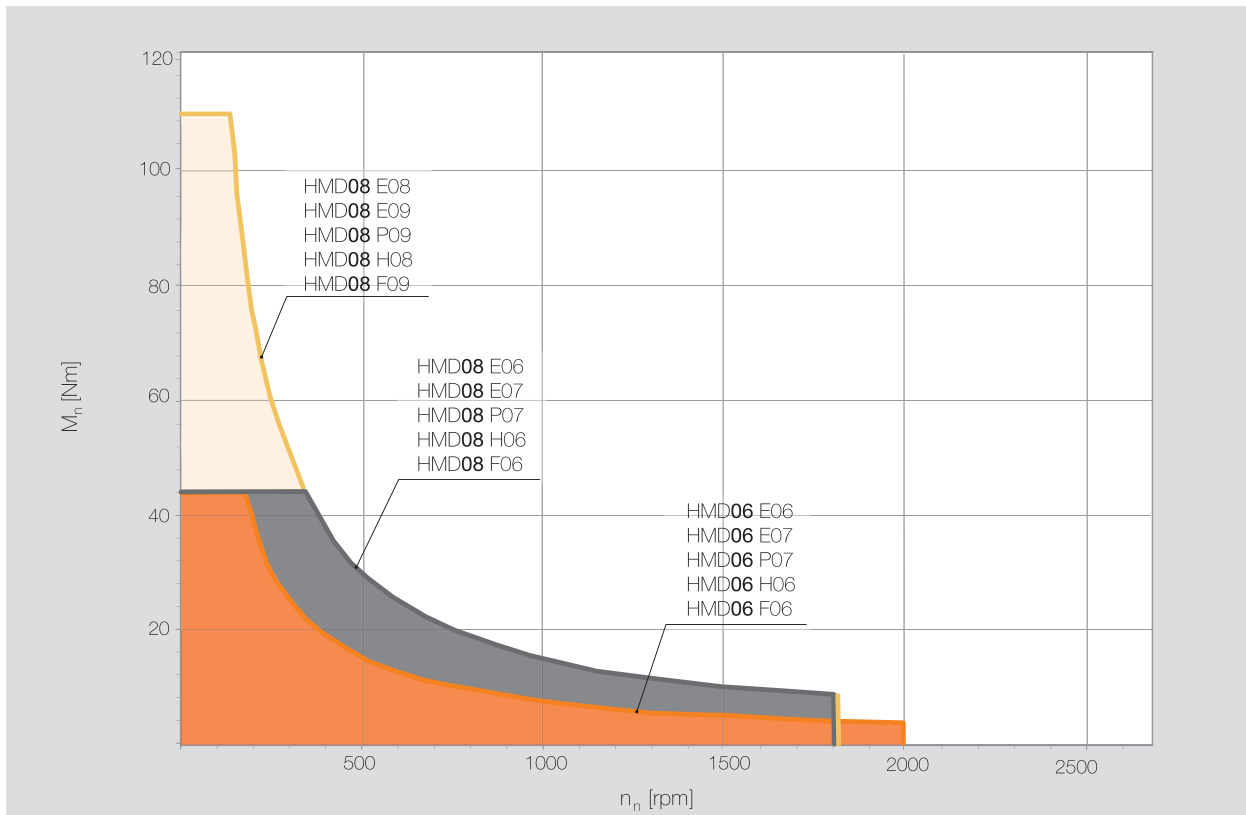
Rated torque (M_n) of HMPo4 - HMPo8



Rated torque (M_n) of HMPo8 - HMP13



Rated torque (M_n) of HMDo6 - HMDo8



Technical data subject to change! Last changes: 11/2019



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