

The Superior Series for the Highest Demands

The HeiTronX Superior (HTS) series combines maximum performance with exceptional compactness, offering up to 100% higher power density. Thanks to its slim design without additional build-up, the motor can be easily integrated into a wide range of applications.



Flexibility and Precision

A wide range of interfaces, such as EtherCAT® as standard and optionally PROFINET® and EtherNet/IP® as an upgrade, ensure maximum flexibility and easy system integration. In addition, the HTS motor has an optional, integrated high-resolution multturn encoder that guarantees maximum precision.

Maximum Operational Reliability

Featuring up to 13 safety functions in its final configuration, the HeiTronX Superior motor ensures maximum operational safety. This ensures seamless compatibility for your security concept. The optional inputs and outputs are versatile, flexible, and can be used individually. The controller has a sophisticated plug-in system that allows daisy chaining for both bus systems and power supply. Our standard Y-Tec plug-in system can also be selected as an option.

Customization and Efficient Monitoring

Based on the proven HMD Next Generation series – which can be combined in a variety of ways with gearboxes and brakes – the HTS motor is available in sizes 60 and 80. The motors come preconfigured and ready for operation, with the flexibility to be customized via a web-based user interface. The integrated status display (LED) provides an overview at any time, even in complex drive solutions with multiple components.

The Best Solution for Modern Drive Technology

HeiTronX Superior impresses with industry-leading motion performance and is perfectly suited for demanding applications that require maximum precision, speed and efficiency. The combination of high-power-density motors, optimized windings, and compact servo controllers makes it the best solution for forward-looking drive technology.

■ HTSo6

Motor Type

Type	Rated speed n_r [rpm]	Rated torque at 40°C ambient temp. M_r [Nm]	Peak torque M_{max} [Nm]	Size L [mm]	
				without brake	with brake
HTSo6 - 24 V_{DC}					
HTS06-011	3,000	0.7	2.5	109	148
HTSo6 - 48 V_{DC}					
HTS06-011	6,000	0.7	2.5	109	148
HTS06-011	3,000	1.0	2.5	109	148
HTS06-019	3,000	1.6	4.8	134	173
HTS06-026	3,000	2.0	6.5	159	198

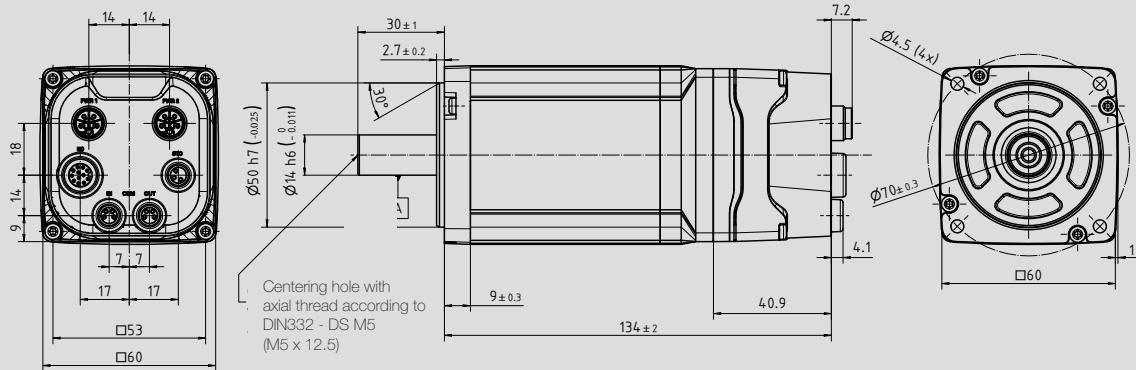
Specifications

Power supply	Rated voltage	24 - 60 V _{DC}
	Max. rated current	20 A _{DC} / 40 A _{DC} (peak) ¹⁾
Protection type		IP65 (AS-side IP21)
Interfaces		EtherCAT [®] , PROFINET ^{®2)} , EtherNet/IP ^{®2)}
Configuration software		Heidrive Servo Drive Commissioning
Inputs		1x digital input, 2x analog input 2x digital input/output (configurable), 1x external Encoder ²⁾
Outputs		+24 V 2x digital input/output (configurable)
Brake control		integrated
Holding brake		optional
Connectors		M8 / M12, Y-Tec / I-Tec
Encoder system		Singleturn / Multiturn 12/14/18 bit
Safety function		STO, SBC (SIL 3, performance level e, category 3) [Safe motion functions on request]

¹⁾ At 48 V_{DC}

²⁾ On request

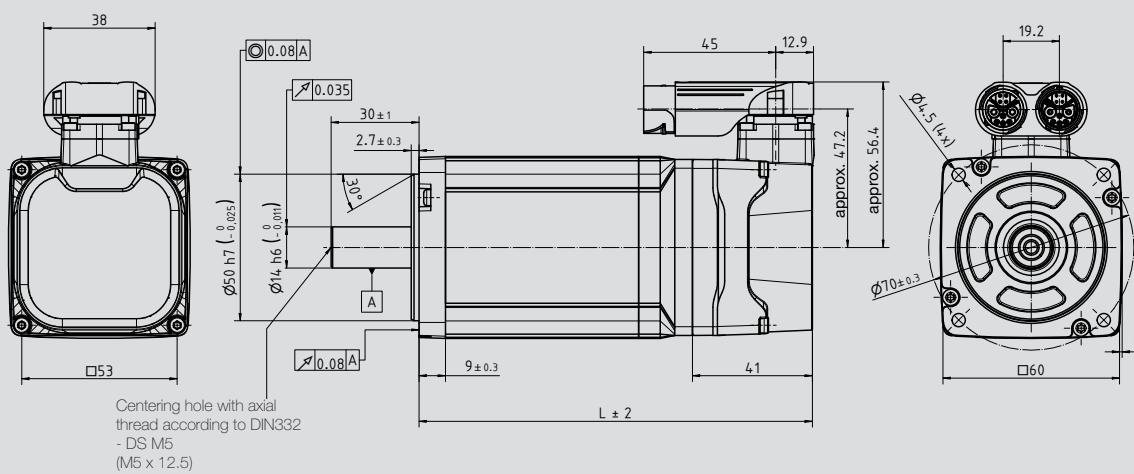
Dimensional Drawing HTSo6 - Metric*



Motor available with directly mounted planetary gearbox (see catalog "HMD Next Generation – Servomotors with Planetary Gearboxes").

Permissible axial and radial forces (see catalog "HMD Next Generation – Servo Drive Systems").

Dimensional Drawing HTSo6 - I-Tec / Y-Tec**



Motor available with directly mounted planetary gearbox (see catalog "HMD Next Generation – Servomotors with Planetary Gearboxes").

Permissible axial and radial forces (see catalog "HMD Next Generation – Servo Drive Systems").

* see page 6

** see page 7

■ HTSo8

Motor Type

Type	Rated speed		Rated torque at 40°C ambient temp.	Peak torque		Size L [mm]	
	n_r [rpm]	M_r [Nm]		M_{max} [Nm]	without brake	with brake	
HTSo8 - 48 V_{DC}							
HTS08-024	3,000	2.0	6.0	121	170		
HTS08-024	5,500	1.0	6.0	121	170		
HTS08-032	3,000	2.5	8.0	136	185		
HTS08-032	5,500	1.2	8.0	136	185		
HTS08-042	3,000	3.0	10.5	151	200		

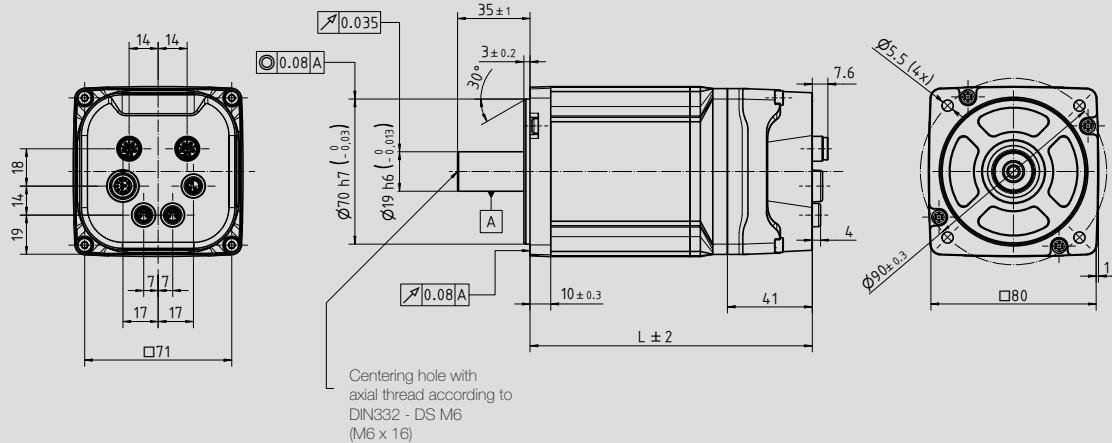
Specifications

Power supply	Rated voltage	24 - 60 V _{DC}
	Max. rated current	30 A _{DC} / 75 A _{DC} (peak) ¹⁾
Protection type		IP65 (AS-side IP21)
Interfaces		EtherCAT [®] , PROFINET ^{®2)} , EtherNet/IP ^{®2)}
Configuration software		Heidrive Servo Drive Commissioning
Inputs		1x digital input, 2x analog input 2x digital input/output (configurable), 1x external encoder ²⁾
Outputs		+24 V 2x digital input/output (configurable)
Brake control		integrated
Holding brake		optional
Connectors		M8 / M12, Y-Tec / I-Tec
Encoder system		Singleturn / Multiturn 12/14/18 bit
Safety function		STO, SBC (SIL 3, Performance Level e, category 3) [Safe motion functions on request]

¹⁾ At 48 V_{DC}

²⁾ On request

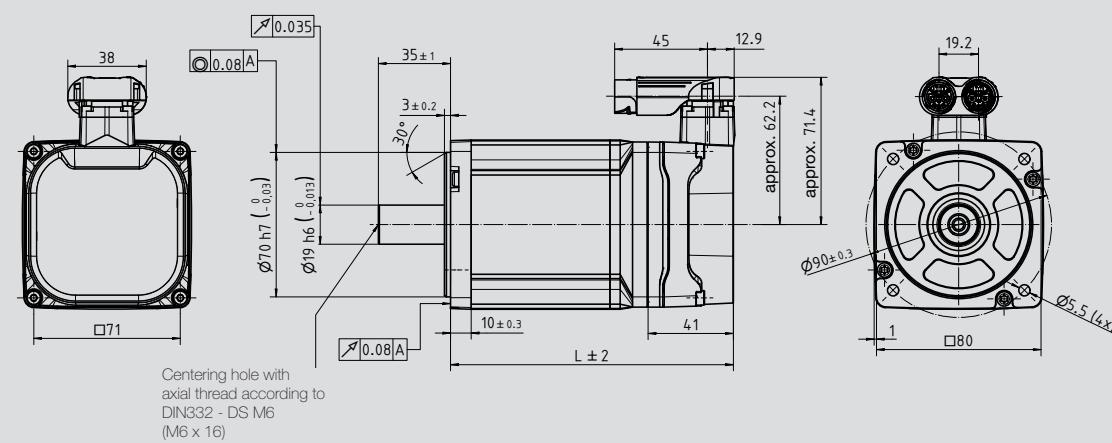
Dimensional Drawing HTSo8 - Metric*



Motor available with directly mounted planetary gearbox (see catalog "HMD Next Generation – Servomotors with Planetary Gearboxes").

Permissible axial and radial forces (see catalog "HMD Next Generation – Servo Drive Systems").

Dimensional Drawing HTSo8 - I-Tec / Y-Tec**



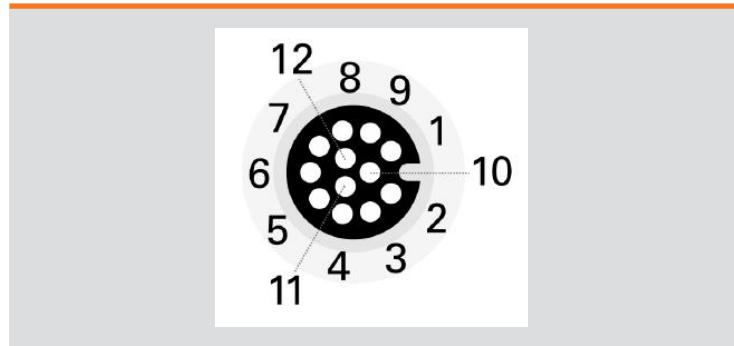
Motor available with directly mounted planetary gearbox (see catalog "HMD Next Generation – Servomotors with Planetary Gearboxes").

Permissible axial and radial forces (see catalog "HMD Next Generation – Servo Drive Systems").

■ Pin Assignment

Metric

M12 I/O



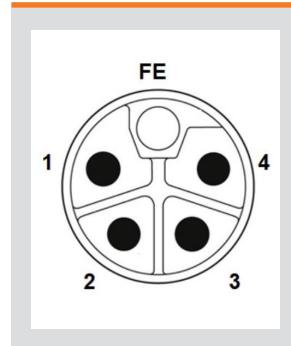
Pin	Function ¹⁾ Assignment B: Encoder	Function ¹⁾ Assignment C: Dig. In	Function Assignment D: GPIO
1	Clock-/B-	-	AI_2_n
2	Z-	-	-
3	-	DI_1 ²⁾	DI_1/DO_1 ²⁾
4	-	DI_2 ²⁾	DI_2/DO_2 ²⁾
5	-	-	DI_3 ³⁾ (Fast DI)
6	-	-	DI_COM
7	Data1+/A+	-	AI_1_p
8	Data1-/A-	-	AI_1_n
9	Clock+/B+	-	AI_2_p
10	GND	GND	GND
11	Z+	-	-
12	24V_out ²⁾	24V_out ²⁾	24V_out ²⁾

1) On request

2) Reference to GND

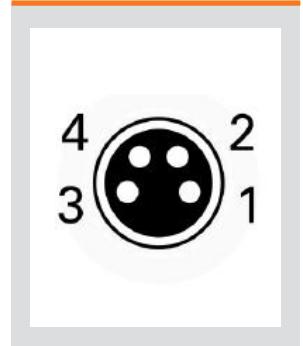
3) Reference to DI_COM isolated to GND

M12 Power



Pin	Function
FE	Functional earth
1	Vin
2	GND
3	Vin
4	GND

M8 EtherCAT® / PROFINET®



M8 STO

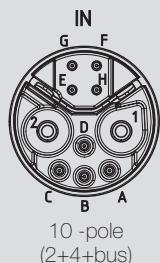


Pin	Function
1	STO B (+24 V)
3	STO A (+24 V)
4	STO GND

I-Tec

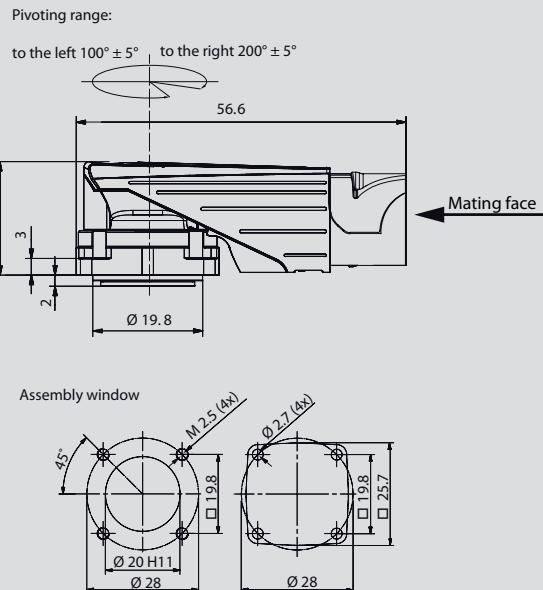
Pin	Designation
1	GND
2	VCC
A	STO B
B	STO GND
C	STO A
D	FE
E	TX+
F	RX-
G	TX-
H	RX+

Input



Motor Connector

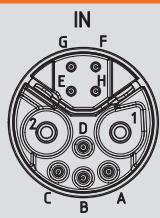
rotatable angle mounting box I-Tec



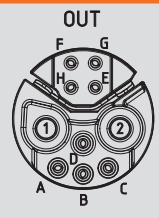
Y-Tec | Daisy Chain

Pin	Designation	
1	GND	GND
2	VCC	VCC
A	STO B	STO B
B	STO GND	STO GND
C	STO A	STO A
D	FE	FE
E	TX+	TX+
F	RX-	RX-
G	TX-	TX-
H	RX+	RX+

Input



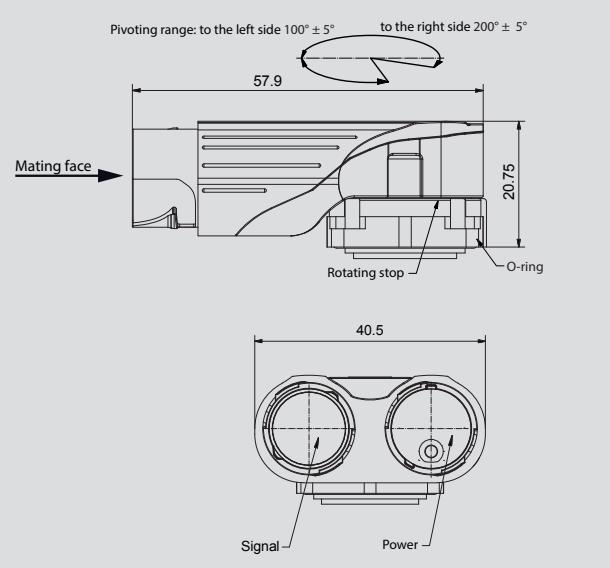
Output



10 -pole
(2+4+bus)

Motor Connector

rotatable angle mounting box Y-Tec



Order Code

HTS06-019-048-30-BPESMXXXW	
Frame/Flange Size	
60 mm → 06	
80 mm → 08	
Coil Size	
HMD06 → 011	
HMD06 → 019	
HMD06 → 026	
HMD08 → 024	
HMD08 → 032	
HMD08 → 042	
DC Link Voltage	
24 V → 024	
48 V → 048	
Rated Speed	
3,000 rpm → 30	
5,500 rpm → 55	
6,000 rpm → 60	
Options	
without brake	0 XXXXXXXXX
with brake 24 V _{DC}	B XXXXXXXXX
without feather key	X 0 XXXXXXXXX
with feather key	X P XXXXXXXXX
EtherCAT®	XX E XXXXXXXX
PROFINET®	XX P XXXXXXXX
EtherNet/IP® ¹⁾	XX NX XXXXXX
no safety ¹⁾	XX X 0 XXXXXX
STO	XX X S XXXXXX
Safe Motion ¹⁾	XX XM XXXXXX
Singleturn encoder ¹⁾	XX XS XXXXXX
Multiturn encoder	XX XM XXXXXX
12 bit (low resolution) ¹⁾	XXXX X L XXXX
14 bit (medium resolution) ¹⁾	XXXX X M XXXX
18 bit (high resolution)	XXXX X H XXXX
M12: Pow + M8: Bus + STO ¹⁾	XXXX X X MAX
M12: Pow + M8: Bus + STO + IO encoder ¹⁾	XXXX X X MBX
M12: Pow + M8: Bus + STO + IO Dig. Inputs ¹⁾	XXXX X X MCX
M12: Pow + M8: Bus + STO + IO GPIO ¹⁾	XXXX X X MDX
M12: Daisy Chain + M8: Bus + STO + IO encoder ¹⁾	XXXX X X DBX
M12: Daisy Chain + M8: Bus + STO + IO Dig. Inputs ¹⁾	XXXX X X DCX
M12: Daisy Chain + M8: Bus + STO + IO GPIO	XXXX X X DDX
I-Tec ¹⁾	XXXX X X I AX
I-Tec, M12 IO encoder ¹⁾	XXXX X X I BX
I-Tec, M12 IO Dig. Inputs ¹⁾	XXXX X X I CX
I-Tec, M12 IO GPIO	XXXX X X I DX
Y-Tec ¹⁾	XXXX X X Y AX
Y-Tec, M12 IO encoder ¹⁾	XXXX X X Y BX
Y-Tec, M12 IO Dig. Inputs ¹⁾	XXXX X X Y CX
Y-Tec, M12 IO GPIO	XXXX X X Y DX
Cabel ¹⁾	XXXX X X KXX
without radial shaft seal	XXXX X X XXXX 0
with radial shaft seal	XXXX X X XXXX W

1) On request

Can be combined with HMD gearboxes, see www.heidrive.com.

Specifications subject to change! Last changes 01/2026



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