HeiTronX SUPERIOR

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 multiturn 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, an 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.

HTS06

Motor Type

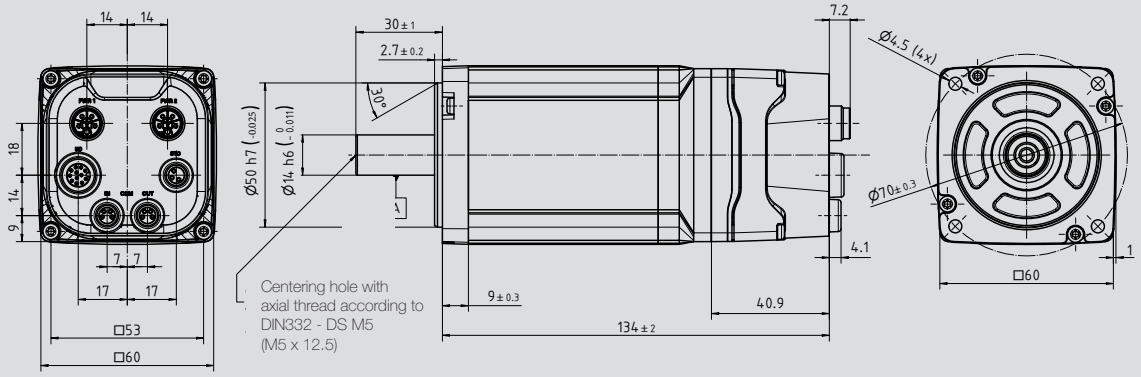
Type	Rated speed	Rated torque at 40°C ambient temp.	Peak torque	Size L [mm]	
	n_n [rpm]	M_n [Nm]	M_{max} [Nm]	without brake	with brake
HTS06 - 24 V_{DC}					
HTS06-011	3,000	0.7	2.5	109	148
HTS06 - 48 V_{DC}					
HTS06-011	6,000	0.7	2.5	109	148
HTS06-011	3,000	1.0	2.5	109	148
HTS06-019	3,000	1.6	4.8	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

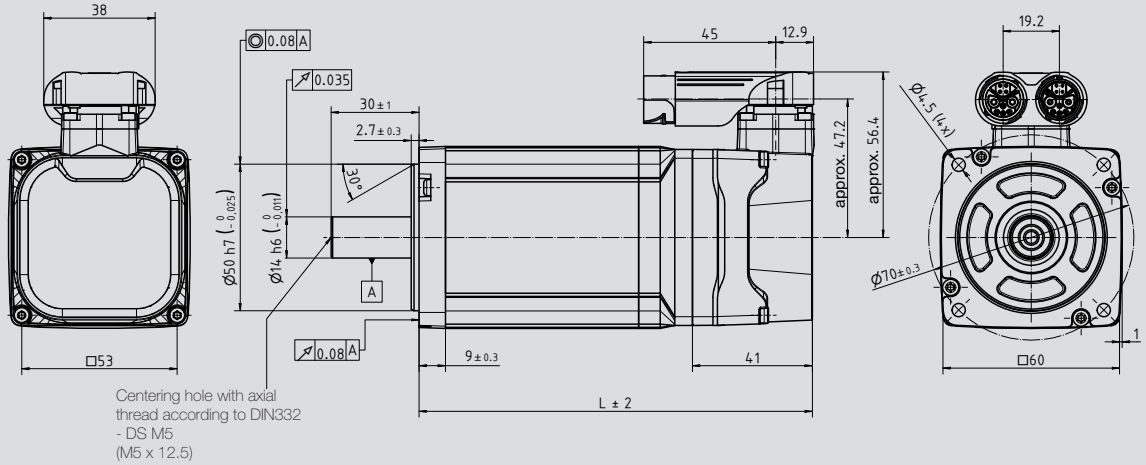
Dimensional Drawing HTSo6 - Metric*



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

HTS08

Motor Type

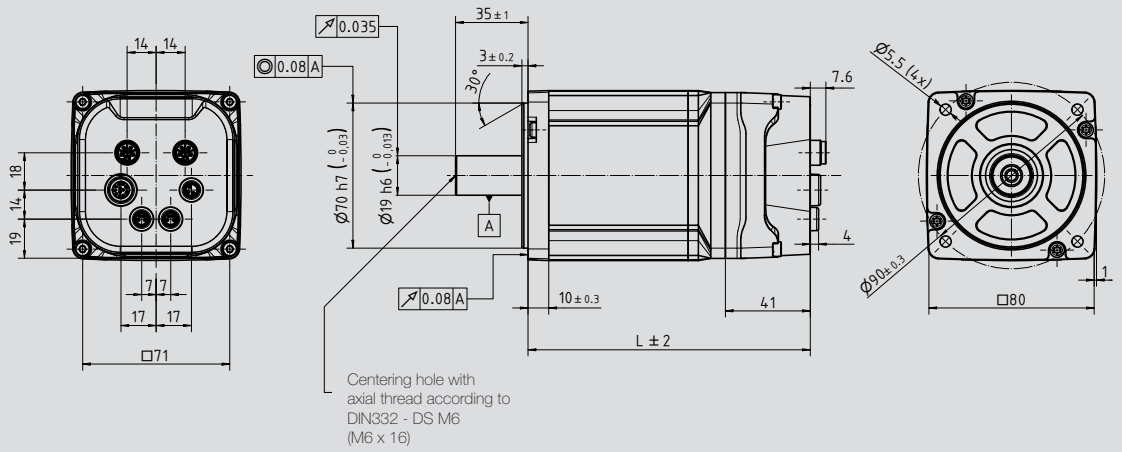
Type	Rated speed	Rated torque at 40°C ambient temp.	Peak torque	Size L [mm]	
	n_n [rpm]	M_n [Nm]	M_{max} [Nm]	without brake	with brake
HTS08 - 48 V_{DC}					
HTS08-024	3,000	2.0	6.0	121	170
HTS08-024	5,500	1.0	6.0	121	170
HTS08-032	3,000	2.5	8.0	136	185
HTS08-032	5,500	1.2	8.0	136	185
HTS08-042	3,000	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, categroy 3) [Safe motion functions on request]

[1] At 48 V_{DC}
[2] On request

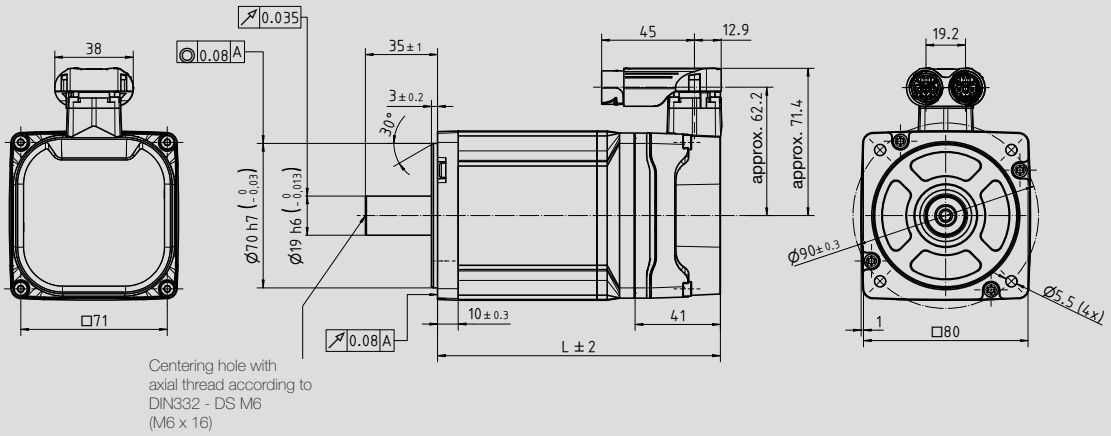
Dimensional Drawing HTSo8 - Metric*



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").

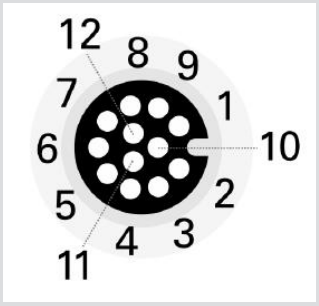
Permissible axial and radial forces (see catalog "HMD Next Generation – Servo Drive Systems").

* see page 6
** see page 7

Pin Assignment

Metric

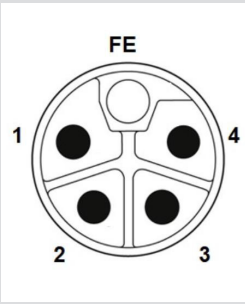
M12 I/O



Pin	Function[1] Assignment B: Encoder	Function 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®

Pin	Function
1	TX+
2	RX+
3	RX-
4	TX-

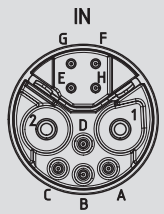
M8 STO

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

I-Tec

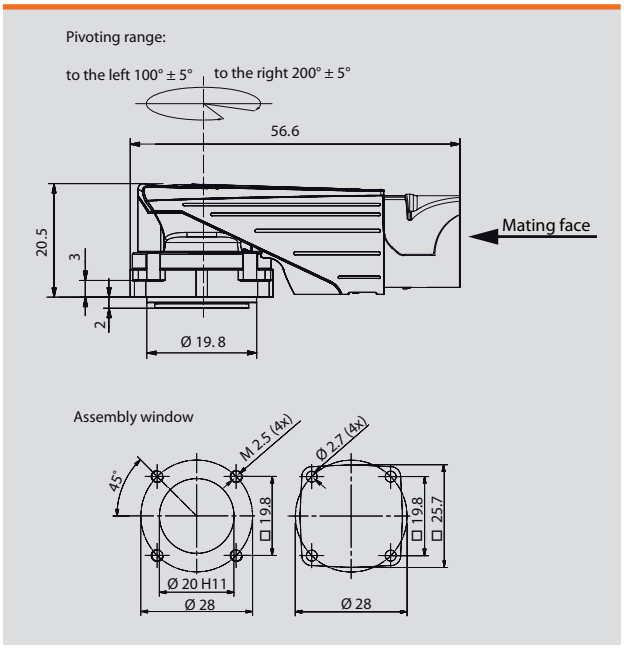
Pin	Designation
1	GND
2	VCC
A	STO B
B	STO GND
C	STO A
D	FE
E	TX+
F	RX-
G	TX-
H	RX+

Input



10 -pole
(2+4+bus)

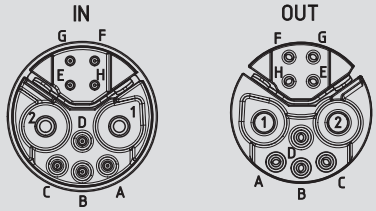
Motor Connector rotatable angle mounting box I-Tec



Y-Tec | Daisy Chain

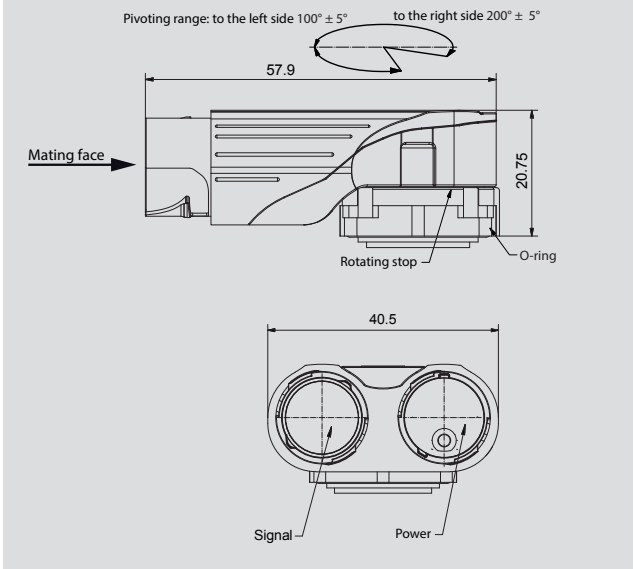
Pin	Designation	
1	GND	GND
2	VCC	VCC
A	STO B	STO B
B	STO GND	STO GND
C	STO A	STO A
D	FE	FE
E	TX+	TX+
F	RX-	RX-
G	TX-	TX-
H	RX+	RX+

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	0XXXXXXXX
with brake 24 V_{DC}	BXXXXXXXX
without feather key	X0XXXXXXX
with feather key	XPXXXXXXX
EtherCAT®	XXEXXXXXX
PROFINET®	XXPXXXXXX
EtherNet/IP®[1]	XXNXXXXXX
no Safety	XXX0XXXXX
STO	XXXSXXXXX
Safe Motion[1]	XXXMXXXXX
Singleturn encoder	XXXXSXXXX
Multiturn encoder	XXXXMXXXX
12 bit (low resolution)[1]	XXXXXLXXX
14 bit (medium resolution)[1]	XXXXXMXXX
18 bit (high resolution)	XXXXXHXXX
M12: Pow + M8: Bus + STO	XXXXXXMAX
M12: Pow + M8: Bus + STO + IO encoder[1]	XXXXXXMBX
M12: Pow + M8: Bus + STO + IO Dig. Inputs	XXXXXXMCX
M12: Pow + M8: Bus + STO + IO GPIO	XXXXXXMDX
M12: Daisy Chain + M8: Bus + STO + IO encoder[1]	XXXXXXDBX
M12: Daisy Chain + M8: Bus + STO + IO Dig. Inputs	XXXXXXDCX
M12: Daisy Chain + M8: Bus + STO + IO GPIO	XXXXXXDDX
I-Tec	XXXXXXIAX
I-Tec, M12 IO encoder[1]	XXXXXXIBX
I-Tec, M12 IO Dig. Inputs	XXXXXXICX
I-Tec, M12 IO GPIO	XXXXXXIDX
Y-Tec	XXXXXXYAX
Y-Tec, M12 IO encoder[1]	XXXXXXYBX
Y-Tec, M12 IO Dig. Inputs	XXXXXXYCX
Y-Tec, M12 IO GPIO	XXXXXXYDX
Cabel[1]	XXXXXXKXX
without radial shaft seal	XXXXXXXX0
with radial shaft seal	XXXXXXXXW

1) On request

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

Specifications subject to change! Last changes 11/2025

Heidrive
An Allient Company

Heidrive GmbH
Starenstraße 23
D-93309 Kelheim

Tel. +49 9441/707-0
Fax +49 9441/707-259

info@heidrive.de
www.heidrive.com