

Servo Motors

Motors & Accessories

Servo Motors

As well as linear and torque motors, the HIWIN product range includes suitable rotary servo motors for the dynamic, high-precision positioning of belt and spindle axles. Servo motors are available in different versions for different applications.



Assembly instructions and catalogue for download

Here you can download the corresponding assembly instructions and the current catalogue as PDF files.

Servo Motors

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Servo Motors

Product overview

1. Product overview



AC servo motors

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- Sizes 50 W, 100 W, 200 W, 400 W, 750 W, 1.000 W, 1.200 W and 2.000 W
- Highly dynamic
- High-torque
- Compact design
- UL-certified



Accessories for AC servo motors

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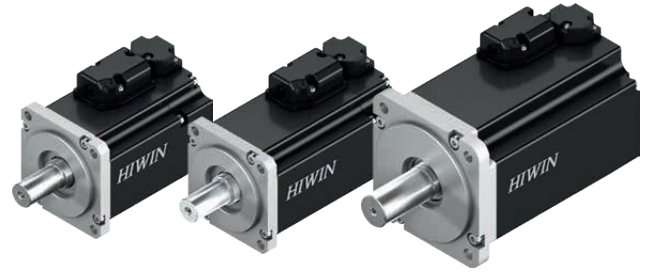
- Connectors
- Cables

Servo Motors

AC servo motors EM1

2. AC servo motors EM1

HIWIN EM1 highly dynamic AC synchronous servo motors deliver high torques across the entire speed range. They are suitable for demanding dynamic drive tasks such as high-frequency reversing. The special stator/rotor structure of the EM1 series achieves very low torque ripple and high power density in a compact form.



2.1 Characteristics EM1

Size	50 W	100 W	200 W	400 W	750 W	1.000 W	1.200 W	2.000 W
Motor type	Permanently excited synchronous servo motor							
Magnets	Neodymium iron boron magnets							
Housing	Aluminium							
Colour	Black							
Motor protection class	IP65							
Connector protection class	IP20					IP65		
Motor shaft protection class	IP40 (optional IP65)							
Insulation class	Class F							
Shaft end	Keyway with threaded bore or as solid shaft with centred bore							
Peak torque	3 × nominal torque							
Service life	> 20,000 h (at nominal load)							
Motor connection	Cable (300 mm) with ready-assembled connector					Connector		
Encoder connection	Cable (300 mm) with ready-assembled connector					Connector		
Cooling	Convective							
Thermal monitoring	Not available							
Encoder	23-bit absolute (single or multi turn)							
Certification	CE,UL							

Size	50 W	100 W	200 W	400 W	750 W	1.000 W	1.200 W	2.000 W
Ambient temperature	0 °C to 50 °C							
Storage temperature	-15 °C to 70 °C							
Air humidity	Up to 80 % relative air humidity							
Max. Max. installation height	1,000 m above sea level							

2.2 Order code EM1

Motor

EM1 C M 40 2 0 F 0 A

Series:

EM1

Rated speed/Maximum speed:

A: 2,000/3,000 (rms) (1 K: 1,000 W)

C: 3,000/6,000 (rms) (05: 50 W, 10: 100 W, 20: 200 W, 40: 400 W, 75: 750 W)

D: 2,000/5,000 (min⁻¹) (1 A: 1,200 W, 2 K: 2,000 W)

Inertia:

M: Medium inertia

Power class:

05: 50 W

10: 100 W

20: 200 W

40: 400 W

75: 750 W

1K: 1,000 W

1A: 1,200 W

2K: 2,000 W

Motor shaft:

A: Round shaft

D: Feather key

Special equipment:

0: Without

Encoder type:

E: 23 bit absolute single turn

F: 23 bit absolute multi turn

Holding break options:

0: Without holding brake

B: With holding brake

Drive input voltage:

2: 230 VAC

Motor cable

HVP S 04 A B 03M B

HIWIN motor cable

Suitable for motor type:

S: 50 – 750 W

M: From 1,000 W

Number of cores:

04: Motor cable without brake

06: Motor cable with brake

Design of motor end:

A: Plastic connector (socket), 50 to 750 W

B: Straight round connector (socket), from 1,000 W

C: Angled round connector (socket), from 1,000 W

Cable type:

B: Highly flexible

Cable length:

03M: 3 m

05M: 5 m

07M: 7 m

10M: 10 m

Design of amplifier side:

B: Open cable ends

Encoder cable

HVE 23I A B 05M B

HIWIN encoder cable

Suitable for encoder type:

23I: 23 bit absolute (singleturn)

23A: 23 bit absolute (multiturn)

Design of motor end:

A: Plastic connector (socket), 50 to 750 W

B: Straight round connector (socket), from 1,000 W

C: Angled round connector (socket), from 1,000 W

Cable type:

B: Highly flexible

Cable length:

03M: 3 m

05M: 5 m

07M: 7 m

10M: 10 m

Design of amplifier side:

B: Open SRC connector suitable for ED1 drive

Servo Motors

AC servo motors EM1

2.3 Technical data EM1

2.3.1 AC servo motor EM1 – 50 W

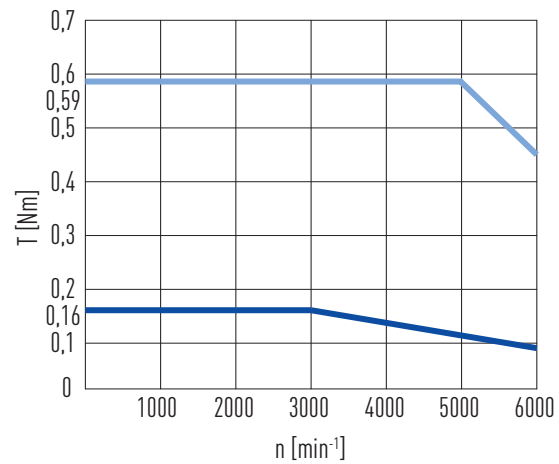
Table 2.3 Technical data EM1 – 50 W			
Motor data	Symbol	Unit	EM1-05
Drive input voltage	V	VAC	230
Rated power	W	W	50
Rated torque	T_C	Nm	0.16
Rated current	I_C	A_{eff}	0.64
Peak max. torque	T_P	Nm	0.59
Peak max. current	I_P	A_{eff}	2.8
Rated speed	n_N	rms	3,000
Peak max. speed	n_{max}	rms	6,000
Torque constant	K_t	Nm/ A_{eff}	0.25
Back EMF constant	K_e	$V_{eff}/(1,000 \text{ rms})$	18.526
Resistance ¹⁾	R	Ω	25.24
Inductance ¹⁾	L	mH	13.09
Inertia of rotating parts (with brake)	J	$kgm^2 (\times 10^{-4})$	0.0368 (0.0401)
Mass (with brake)	M	kg	0.36 (0.56)
Motor insulation level	Class F (under certification)		
Motor protection level	Total enclosed, self-cooled, IP65 (except for shaft and connector)		
Insulation resistance	10 M Ω , DC 500 V		
Insulation voltage resistance	AC 1500 V, 60 seconds		
Brake specifications ²⁾			
Static friction torque	T_b	Nm	0.32
Enabled current	A_b	A	0.25
Brake input voltage	V	VDC	24 \pm 10 %
Braking time	t_0	ms	40
Release time	t_R	ms	20

¹⁾ Line to line

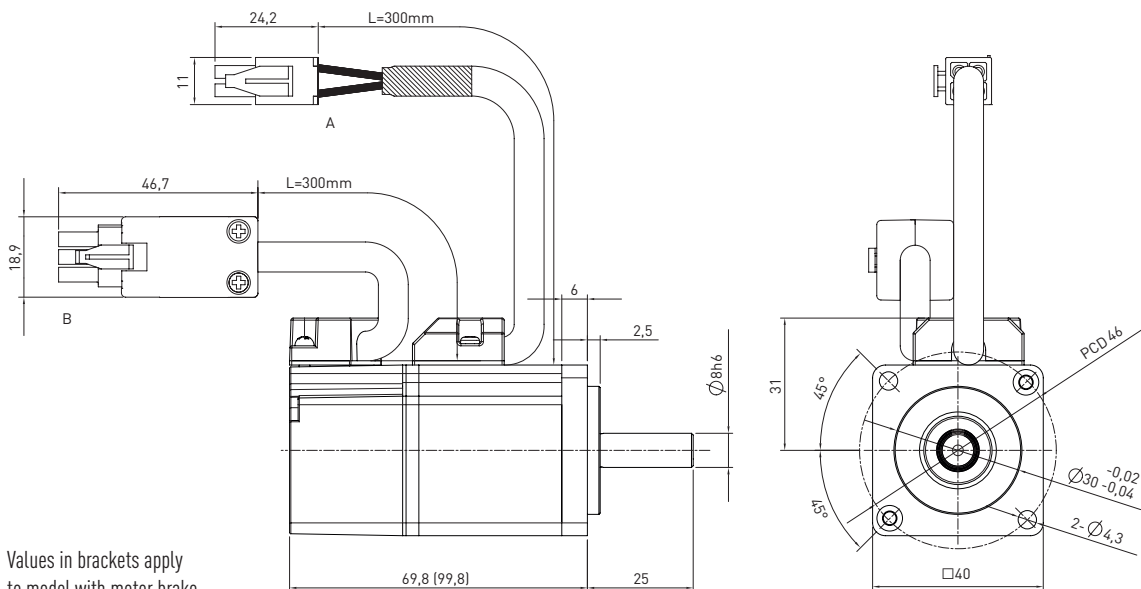
²⁾ The motor brakes are holding brakes only, not operating brakes



Torque-speed curve EM1 – 50 W



Dimensions EM1 – 50 W:



Values in brackets apply to model with motor brake

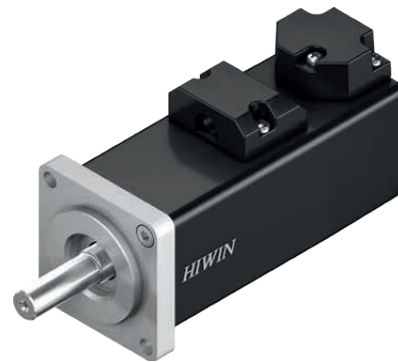
2.3.2 AC servo motor EM1 – 100 W

Table 2.4 Technical data EM1 – 100 W

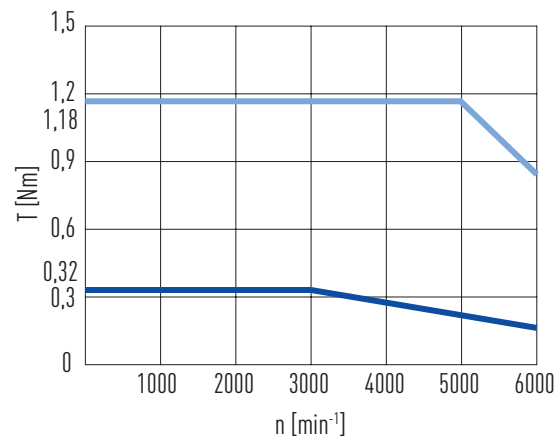
Motor data	Symbol	Unit	EM1-10
Drive input voltage	V	VAC	230
Rated power	W	W	100
Rated torque	T_C	Nm	0.32
Rated current	I_C	A_{eff}	0.78
Peak max. torque	T_P	Nm	1.18
Peak max. current	I_P	A_{eff}	3.45
Rated speed	n_N	rms	3,000
Peak max. speed	n_{max}	rms	6,000
Torque constant	K_t	Nm/ A_{eff}	0.41
Back EMF constant	K_e	$V_{eff}/(1,000 \text{ rms})$	28.364
Resistance ¹⁾	R	Ω	22.72
Inductance ¹⁾	L	mH	13.86
Inertia of rotating parts (with brake)	J	$kgm^2 (\times 10^{-4})$	0.0620 (0.0653)
Mass (with brake)	M	kg	0.47 (0.67)
Motor insulation level	Class F (under certification)		
Motor protection level	Total enclosed, self-cooled, IP65 (except for shaft and connector)		
Insulation resistance	10 M Ω , DC 500 V		
Insulation voltage resistance	AC 1500 V, 60 seconds		
Brake specifications ²⁾			
Static friction torque	T_b	Nm	0.32
Enabled current	A_b	A	0.25
Brake input voltage	V	VDC	24 \pm 10 %
Braking time	t_0	ms	40
Release time	t_R	ms	20

¹⁾ Line to line

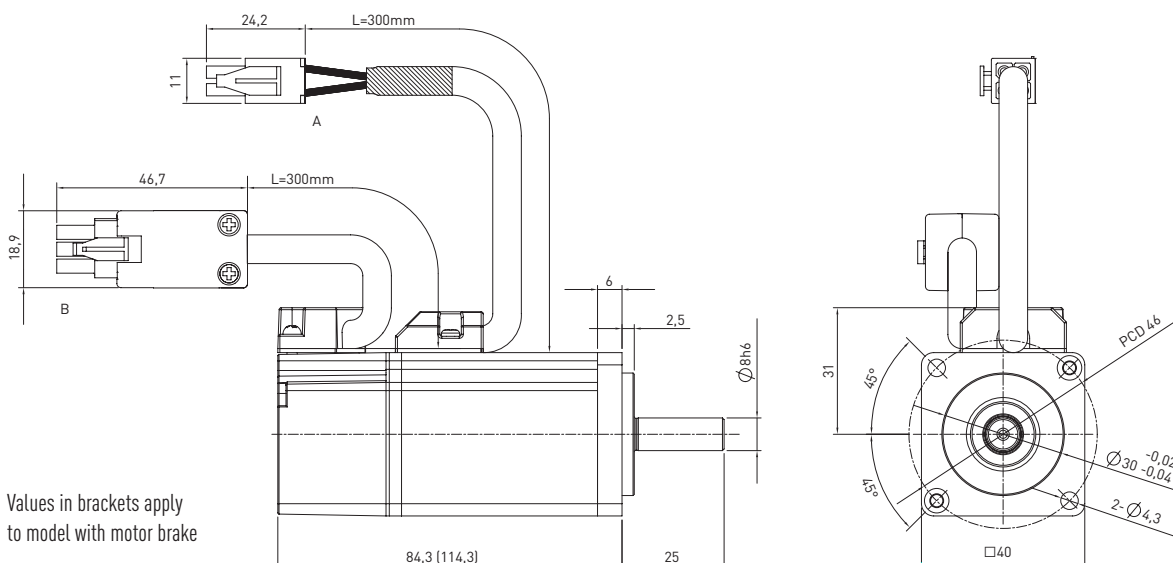
²⁾ The motor brakes are holding brakes only, not operating brakes



Torque-speed curve EM1 – 100 W:



Dimensions EM1 – 100 W:



Values in brackets apply to model with motor brake

Servo Motors

AC servo motors EM1

2.3.3 AC servo motor EM1 – 200 W

Table 2.5 Technical data EM1 – 200 W

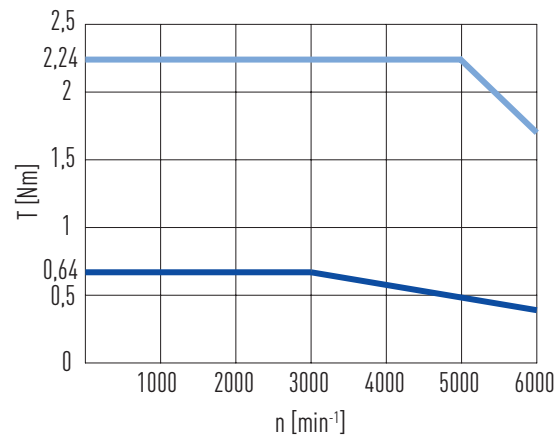
Motor data	Symbol	Unit	EM1-20
Drive input voltage	V	VAC	230
Rated power	W	W	200
Rated torque	T_C	Nm	0.64
Rated current	I_C	A_{eff}	1.6
Peak max. torque	T_P	Nm	2.24
Peak max. current	I_P	A_{eff}	6.4
Rated speed	n_N	rms	3,000
Peak max. speed	n_{max}	rms	6,000
Torque constant	K_t	Nm/ A_{eff}	0.4
Back EMF constant	K_e	$V_{eff}/(1,000 \text{ rms})$	27.23
Resistance ¹⁾	R	Ω	5.53
Inductance ¹⁾	L	mH	8.76
Inertia of rotating parts (with brake)	J	$kgm^2 (\times 10^{-4})$	0.263 (0.326)
Mass (with brake)	M	kg	0.851 (1.085)
Motor insulation level	Class F (under certification)		
Motor protection level	Total enclosed, self-cooled, IP65 (except for shaft and connector)		
Insulation resistance	10 M Ω , DC 500 V		
Insulation voltage resistance	AC 1500 V, 60 seconds		
Brake specifications ²⁾			
Static friction torque	T_b	Nm	1.3
Enabled current	A_b	A	0.32
Brake input voltage	V	VDC	24 \pm 10 %
Braking time	t_0	ms	30
Release time	t_R	ms	20

¹⁾ Line to line

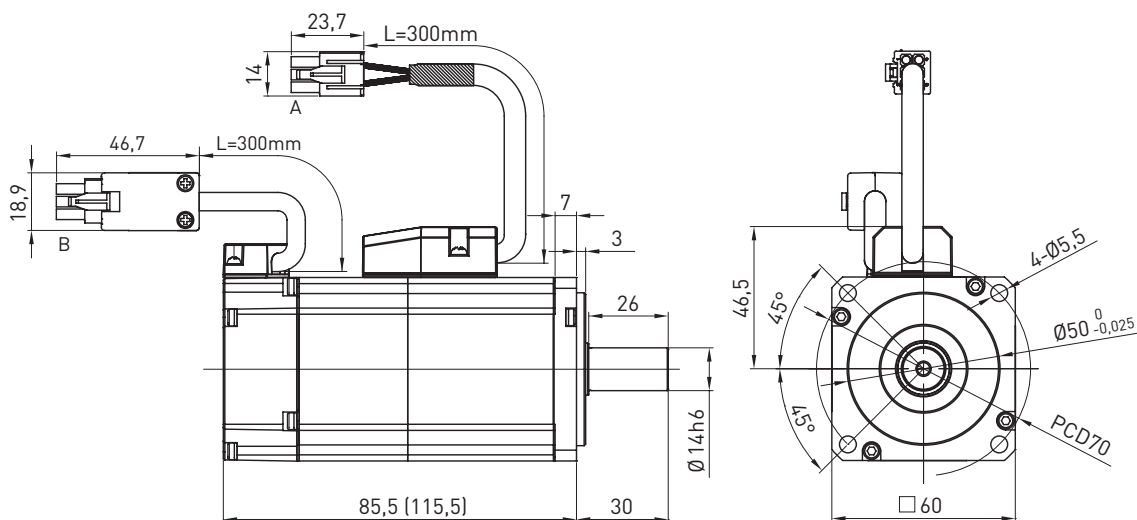
²⁾ The motor brakes are holding brakes only, not operating brakes



Torque-speed curve EM1 – 200 W:



Dimensions EM1 – 200 W:



Values in brackets apply to model with motor brake

2.3.4 AC servo motor EM1 – 400 W

Table 2.6 Technical data EM1 – 400 W

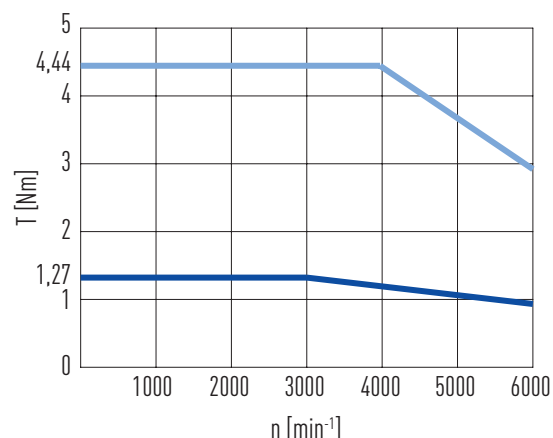
Motor data	Symbol	Unit	EM1-40
Drive input voltage	V	VAC	230
Rated power	W	W	400
Rated torque	T_C	Nm	1.27
Rated current	I_C	A_{eff}	2.5
Peak max. torque	T_P	Nm	4.44
Peak max. current	I_P	A_{eff}	10
Rated speed	n_N	rms	3,000
Peak max. speed	n_{max}	rms	6,000
Torque constant	K_t	Nm/ A_{eff}	0.508
Back EMF constant	K_e	$V_{eff}/(1,000 \text{ rms})$	33.87
Resistance ¹⁾	R	Ω	3.59
Inductance ¹⁾	L	mH	7.22
Inertia of rotating parts (with brake)	J	$kgm^2 (\times 10^{-4})$	0.48 (0.49)
Mass (with brake)	M	kg	1.25 (1.8)
Motor insulation level	Class F (under certification)		
Motor protection level	Total enclosed, self-cooled, IP65 (except for shaft and connector)		
Insulation resistance	10 M Ω , DC 500 V		
Insulation voltage resistance	AC 1500 V, 60 seconds		
Brake specifications ²⁾			
Static friction torque	T_b	Nm	1.3
Enabled current	A_b	A	0.32
Brake input voltage	V	VDC	24 \pm 10 %
Braking time	t_0	ms	30
Release time	t_R	ms	20

¹⁾ Line to line

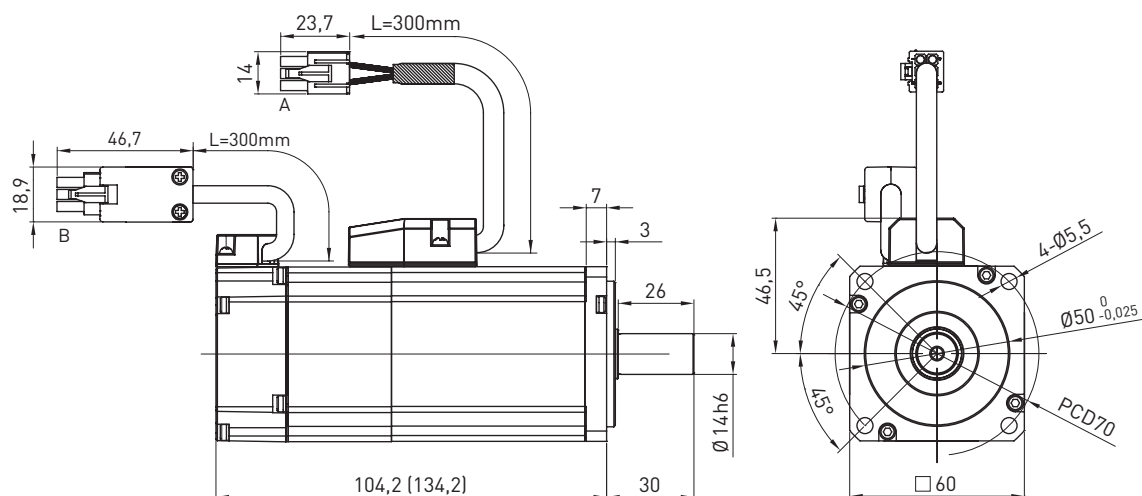
²⁾ The motor brakes are holding brakes only, not operating brakes



Torque-speed curve EM1 – 400 W:



Dimensions EM1 400 – W:



Values in brackets apply to model with motor brake

Servo Motors

AC servo motors EM1

2.3.5 AC servo motor EM1 – 750 W

Table 2.7 Technical data EM1 – 750 W

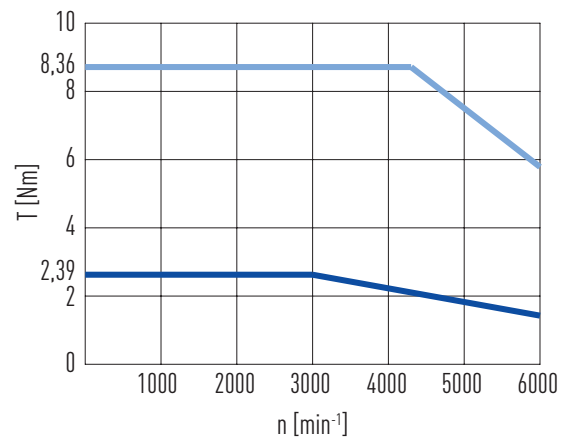
Motor data	Symbol	Unit	EM1-75
Drive input voltage	V	VAC	230
Rated power	W	W	750
Rated torque	T_C	Nm	2.39
Rated current	I_C	A_{eff}	4.65
Peak max. torque	T_P	Nm	8.36
Peak max. current	I_P	A_{eff}	18.6
Rated speed	n_N	rms	3,000
Peak max. speed	n_{max}	rms	6,000
Torque constant	K_t	Nm/ A_{eff}	0.514
Back EMF constant	K_e	$V_{eff}/(1,000 \text{ rms})$	33.48
Resistance ¹⁾	R	Ω	1.08
Inductance ¹⁾	L	mH	4.6
Inertia of rotating parts (with brake)	J	$kgm^2 (\times 10^{-4})$	1.44 (1.47)
Mass (with brake)	M	kg	2.7 (3.36)
Motor insulation level	Class F (under certification)		
Motor protection level	Total enclosed, self-cooled, IP65 (except for shaft and connector)		
Insulation resistance	10 M Ω , DC 500 V		
Insulation voltage resistance	AC 1500 V, 60 seconds		
Brake specifications ²⁾			
Static friction torque	T_b	Nm	2.4
Enabled current	A_b	A	0.358
Brake input voltage	V	VDC	24 \pm 10 %
Braking time	t_0	ms	45
Release time	t_R	ms	10

¹⁾ Line to line

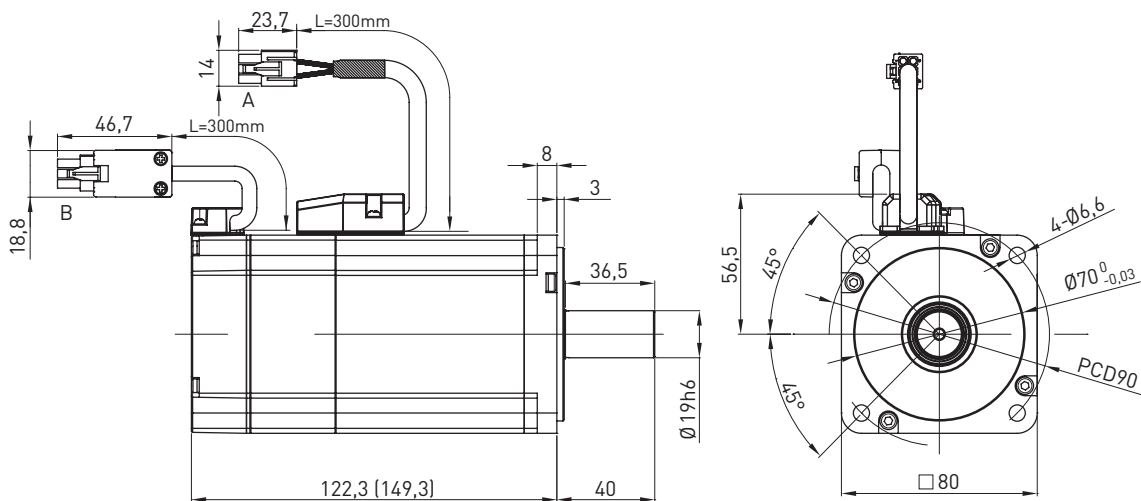
²⁾ The motor brakes are holding brakes only, not operating brakes



Torque-speed curve EM1 – 750 W:



Dimensions EM1 – 750 W:



Values in brackets apply to model with motor brake

2.3.6 AC servo motor EM1 – 1,000 W

Table 2.8 Technical data EM1 – 1,000 W

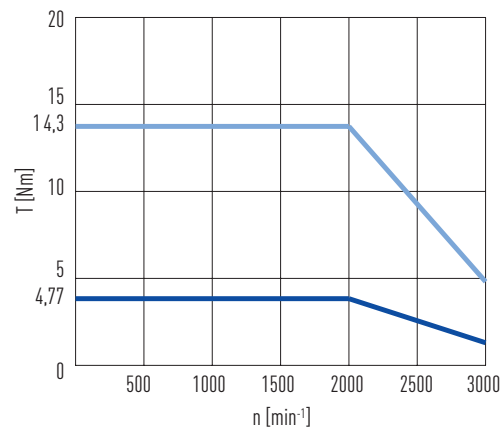
Motor data	Symbol	Unit	EM1-1K
Drive input voltage	V	VAC	230
Rated power	W	W	1,000
Rated torque	T_C	Nm	4.77
Rated current	I_C	A_{eff}	5.1
Peak max. torque	T_P	Nm	14.3
Peak max. current	I_P	A_{eff}	15.3
Rated speed	n_N	rms	2,000
Peak max. speed	n_{max}	rms	3,000
Torque constant	K_t	Nm/ A_{eff}	0.935
Back EMF constant	K_e	$V_{eff}/(1,000 \text{ rms})$	54.15
Resistance ¹⁾	R	Ω	0.81
Inductance ¹⁾	L	mH	8
Inertia of rotating parts (with brake)	J	$kgm^2 (\times 10^{-4})$	7.2 (8.0)
Mass (with brake)	M	kg	5.4 (6.2)
Motor insulation level	Class F (under certification)		
Motor protection level	Total enclosed, self-cooled, IP65 (except for shaft and connector)		
Insulation resistance	10 M Ω , DC 500 V		
Insulation voltage resistance	AC 1500 V, 60 seconds		
Brake specifications ²⁾			
Static friction torque	T_b	Nm	10
Enabled current	A_b	A	0.56
Brake input voltage	V	VDC	24 \pm 10 %
Braking time	t_0	ms	80
Release time	t_R	ms	30

¹⁾ Line to line

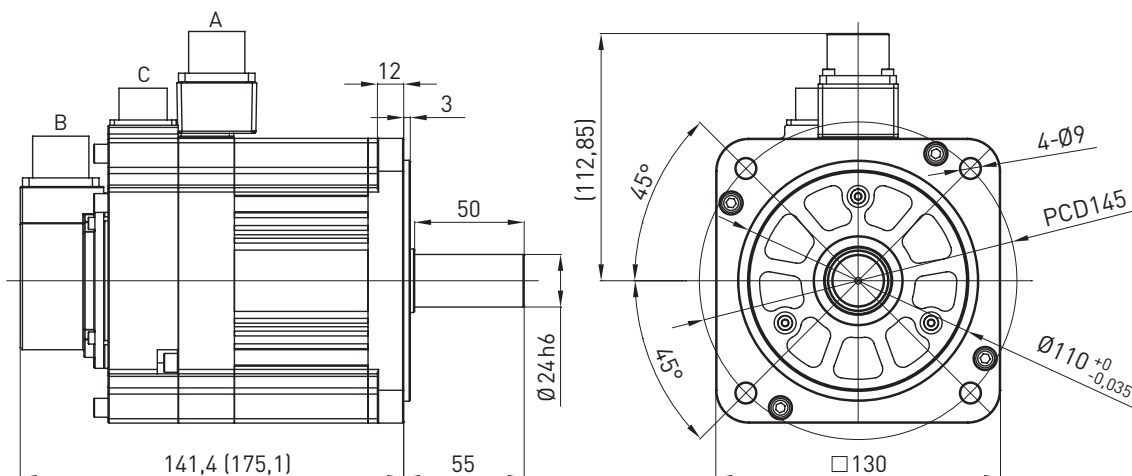
²⁾ The motor brakes are holding brakes only, not operating brakes



Torque-speed curve EM1 – 1,000 W:



Dimensions EM1 – 1,000 W:



Values in brackets apply to model with motor brake

Servo Motors

AC servo motors EM1

2.3.7 AC servo motor EM1 – 1,200 W

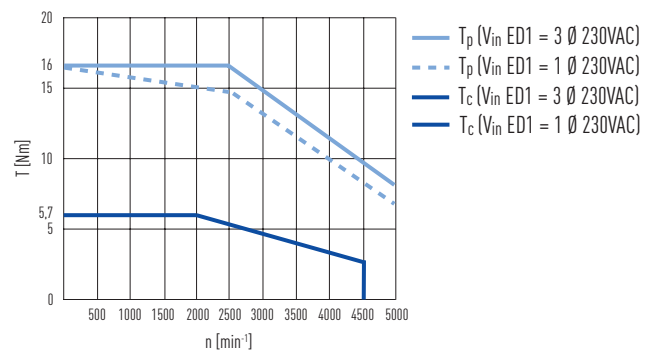
Table 2.9 Technical data EM1 – 1,200 W			
Motor data	Symbol	Unit	EM1-1A
Drive input voltage	V	VAC	230
Rated power	W	W	1,200
Rated torque	T_C	Nm	5.73
Rated current	I_C	A_{eff}	9.1
Peak max. torque	T_P	Nm	16
Peak max. current	I_P	A_{eff}	27
Rated speed	n_N	rms	2,000
Peak max. speed	n_{max}	rms	5,000
Torque constant	K_t	Nm/ A_{eff}	0.63
Back EMF constant	K_e	$V_{eff}/(1,000 \text{ rms})$	41.52
Resistance ¹⁾	R	Ω	0.482
Inductance ¹⁾	L	mH	4.54
Inertia of rotating parts (with brake)	J	$kgm^2 (\times 10^{-4})$	7.2 (8.0)
Mass (with brake)	M	kg	5.3 (6.1)
Motor insulation level	Class F (under certification)		
Motor protection level	Total enclosed, self-cooled, IP65 (except for shaft and connector)		
Insulation resistance	10 M Ω , DC 500 V		
Insulation voltage resistance	AC 1500 V, 60 seconds		
Brake specifications ²⁾			
Static friction torque	T_b	Nm	10
Enabled current	A_b	A	0.56
Brake input voltage	V	VDC	24 \pm 10 %
Braking time	t_0	ms	80
Release time	t_R	ms	30

¹⁾ Line to line

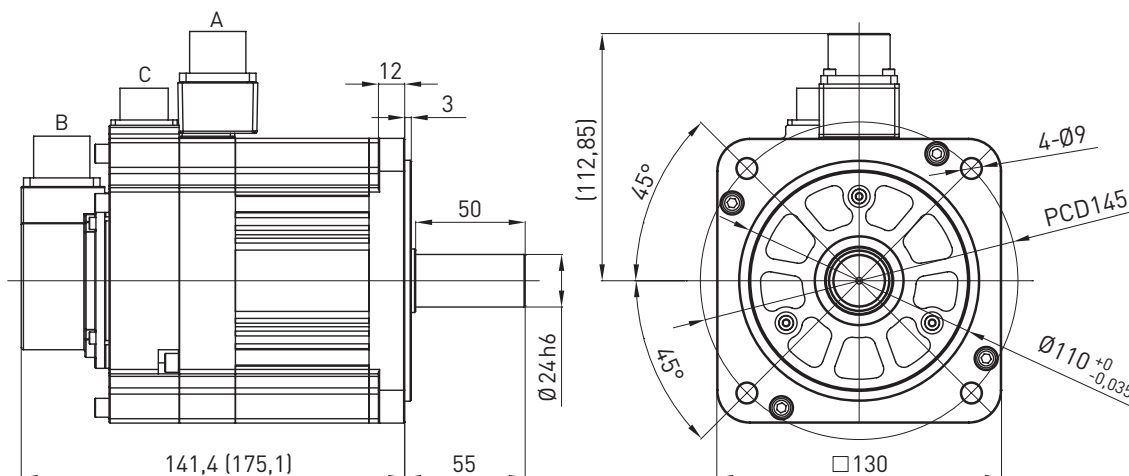
²⁾ The motor brakes are holding brakes only, not operating brakes



Torque-speed curve EM1 – 1,200 W:



Dimensions EM1 – 1,200 W:



Values in brackets apply to model with motor brake

2.3.8 AC servo motor EM1 – 2,000 W

Table 2.10 Technical data EM1 – 2,000 W

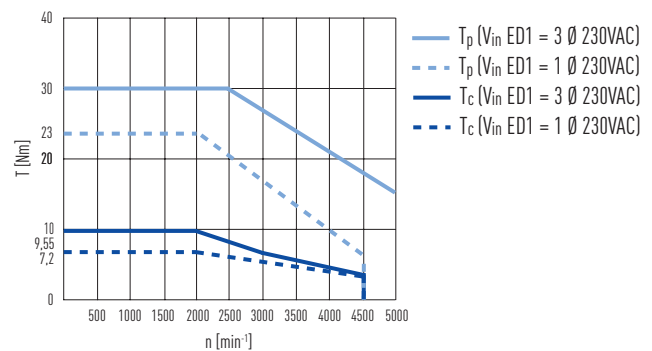
Motor data	Symbol	Unit	EM1-2K
Drive input voltage	V	VAC	230
Rated power	W	W	2,000
Rated torque	T_C	Nm	9.55
Rated current	I_C	A_{eff}	12
Peak max. torque	T_P	Nm	30
Peak max. current	I_P	A_{eff}	42
Rated speed	n_N	rms	2,000
Peak max. speed	n_{max}	rms	5,000
Torque constant	K_t	Nm/ A_{eff}	0.796
Back EMF constant	K_e	$V_{eff}/(1,000 \text{ rms})$	50.49
Resistance ¹⁾	R	Ω	0.264
Inductance ¹⁾	L	mH	2.825
Inertia of rotating parts (with brake)	J	$kgm^2 (\times 10^{-4})$	12.8 (13.3)
Mass (with brake)	M	kg	7.9 (8.7)
Motor insulation level	Class F (under certification)		
Motor protection level	Total enclosed, self-cooled, IP65 (except for shaft and connector)		
Insulation resistance	10 M Ω , DC 500 V		
Insulation voltage resistance	AC 1500 V, 60 seconds		
Brake specifications ²⁾			
Static friction torque	T_b	Nm	10
Enabled current	A_b	A	0.56
Brake input voltage	V	VDC	24 \pm 10 %
Braking time	t_0	ms	80
Release time	t_R	ms	30

¹⁾ Line to line

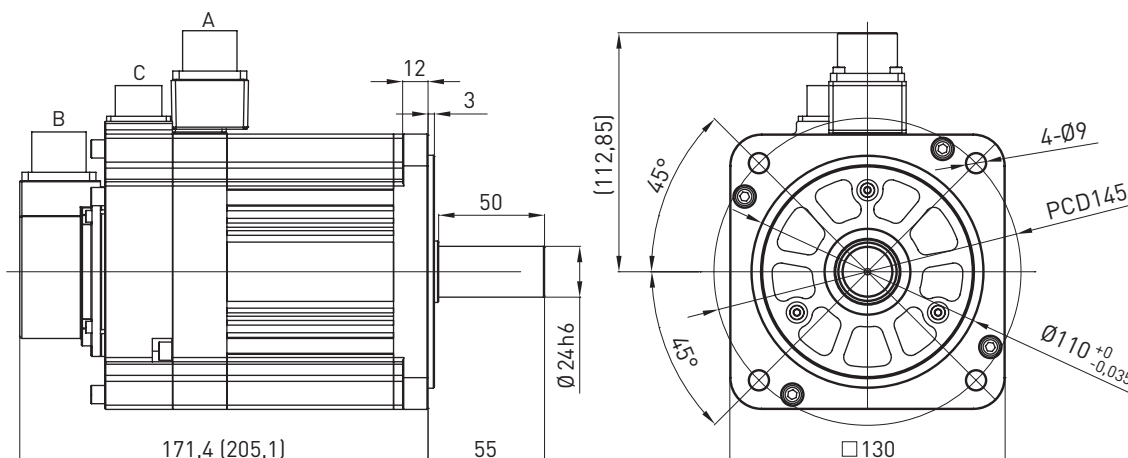
²⁾ The motor brakes are holding brakes only, not operating brakes



Torque-speed curve EM1 – 2,000 W:



Dimensions EM1 – 2,000 W:



Values in brackets apply to model with motor brake

Servo Motors

AC servo motors EM1

2.4 Options EM1

2.4.1 Motor brake

Table 2.11 Motor brake specifications for HIWIN servo motors

Motor type	Unit	50 W	100 W	200 W	400 W	750 W	1,000 W	1,200 W	2,000 W
Braking torque (static)	Nm	0.32	0.32	1.3	1.3	2.4	10.0	10.0	10.0
Maximum speed n_{max}	rpm	6,000	6,000	6,000	6,000	6,000	3,000	5,000	5,000
Power supply	VDC	24 ±10 %	24 ±10 %	24 ±10 %	24 ±10 %	24 ±10 %	24 ±10 %	24 ±10 %	24 ±10 %
Power consumption	A	0.25	0.25	0.32	0.32	0.358	0.56	0.56	0.56
Response time open	ms	40.0	40.0	30.0	30.0	45.0	80.0	80.0	80.0
Response time close	ms	20.0	20.0	20.0	20.0	10.0	30.0	30.0	30.0

Please note: The motor brakes are holding brakes only, not operating brakes

2.5 Accessories EM1

2.5.1 Motor and encoder connectors

In HIWIN servo motors rated between 50 W and 750 W, the motor and encoder cables are routed directly out of the motor. For ease of installation the motor and encoder connectors are fitted on the end of the 300 mm cable and ready to connect. As of 1,000 W motors the motor and encoder connectors are fitted on the motor housing, see Fig. 2.1 (motor and encoder connectors).

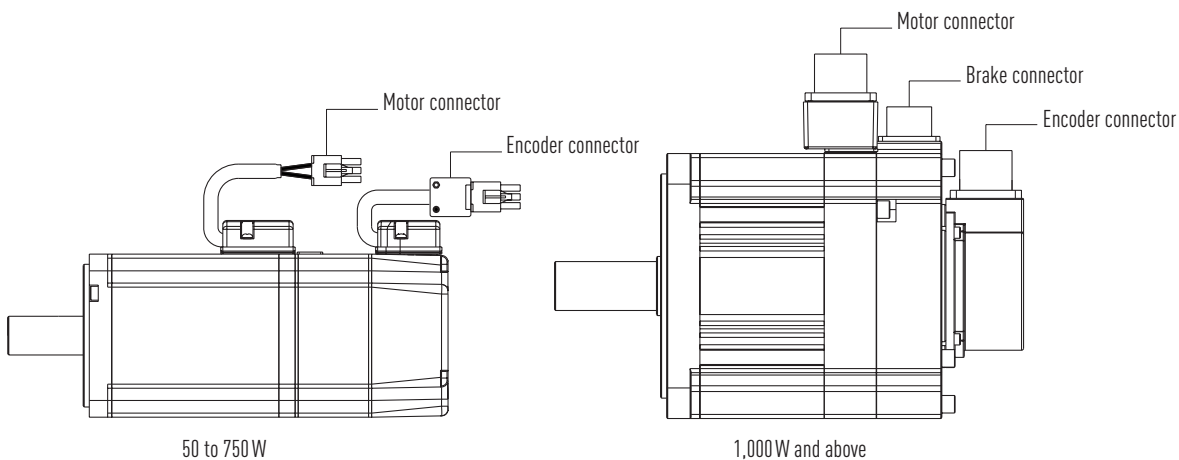


Fig. 2.1 Overview of motor and encoder connectors

Different connectors are used for HIWIN servo motors depending on the size and model. The assignment of individual connectors is described in the tables below.

○ Motor connector for 50 W – 750 W motors

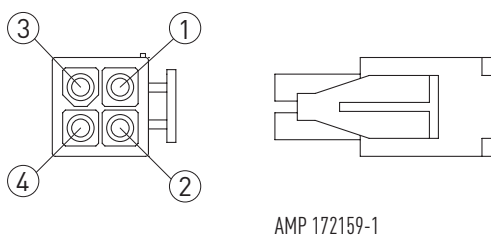
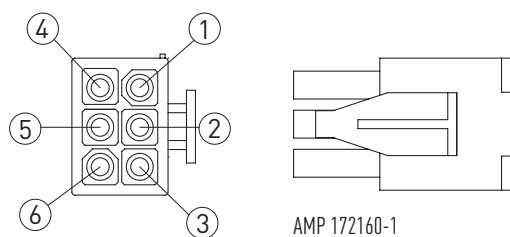


Fig. 2.2 Connector assignment without brake, motor connector for 50 W – 750 W motors



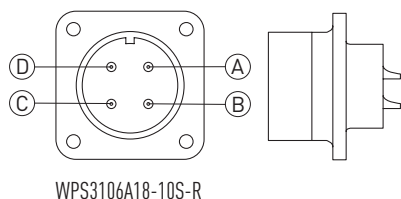
AMP 172160-1

Fig. 2.3 Connector assignment with brake, motor connector for 50 W – 750 W motors

Table 2.12 Assignment of motor connector for 50 W – 750 W motors		
Signal	AMP 172159-1 (without brake)	AMP 172160-1 (with brake)
U	3	3
V	2	2
W	1	1
GND	4	4
B+	—	5
B-	—	6

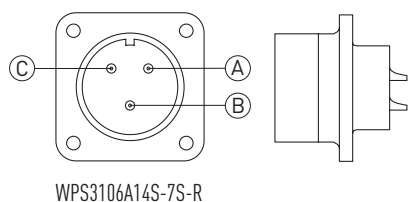
Motor connector, 1,000 W and above

Motors of 1,000 W and above with a motor brake have an additional, separate brake connector (see Fig. 2.5).



WPS3106A18-10S-R

Fig. 2.4 Assignment of motor connector, 1,000 W and above



WPS3106A14S-7S-R

Fig. 2.5 Connector assignment for brake, 1,000 W and above

Table 2.13 Assignment of motor connector, 1,000 W and above		
Signal	WPS3106A18-10S-R	WPS3106A14S-7S-R
U	A	—
V	B	—
W	C	—
GND	D	—
B+	—	A
B-	—	C

Servo Motors

AC servo motors EM1

Encoder connector, 50 W – 750 W

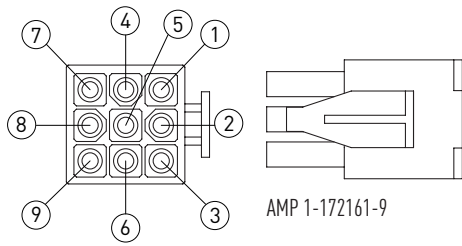


Fig. 2.6 Encoder connector, 50 W – 750 W

Function	23 bit absolute (singleturn)	23 bit absolute (multiturn)	AMP 1-172161-9
Power supply	5 V ± 5 %		1
	0 V		2
Data	SC+	—	3
	SC-	—	4
	—	VB (battery)	5
	—	GND (battery)	6
	MA+	SD+	7
	MA-	SD-	8
Shielding	Shielding		9

Encoder connector, 1,000 W and above

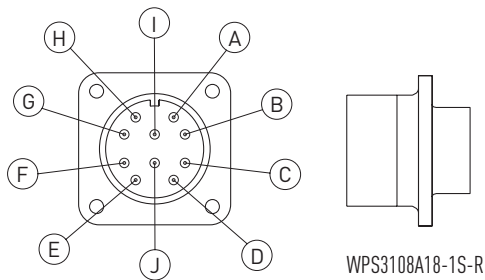


Fig. 2.7 Encoder connector, 1,000 W and above

Function	23 bit absolute (singleturn)	23 bit absolute (multiturn)	WPS3108A18-1S-R
Power supply	5 V ± 5 %		A
	0 V		B
Data	SC+	—	C
	SC-	—	D
	—	VB (battery)	E
	—	GND (battery)	F
	MA+	SD+	G
	MA-	SD-	H
Shielding	Shielding		I

2.5.2 Motor and encoder cables

○ Motor cables

Table 2.16 Motor cables for 50 W – 750 W motors without brake

Article number	Order code	Length	
8-10-1800	HVPS04AB03MB	3 m	
8-10-1801	HVPS04AB05MB	5 m	
8-10-1802	HVPS04AB07MB	7 m	
8-10-1803	HVPS04AB10MB	10 m	

Table 2.17 Motor cables for 50 W – 750 W motors with brake

Article number	Order code	Length	
8-10-1804	HVPS06AB03MB	3 m	
8-10-1805	HVPS06AB05MB	5 m	
8-10-1806	HVPS06AB07MB	7 m	
8-10-1807	HVPS06AB10MB	10 m	

Table 2.18 Motor cables for 1,000 W motors and above without brake

Article number	Order code	Length	
80032333	HVPM04CB03MB	3 m	
80032352	HVPM04CB05MB	5 m	
80032354	HVPM04CB07MB	7 m	
80032355	HVPM04CB10MB	10 m	

Motor cables with straight connector on request

Table 2.19 Motor cables for 1,000 W motors and above with brake

Article number	Order code	Length	
80032356	HVPM06CB03MB	3 m	
80032357	HVPM06CB05MB	5 m	
80032358	HVPM06CB07MB	7 m	
80032359	HVPM06CB10MB	10 m	

Motor cables with straight connector on request

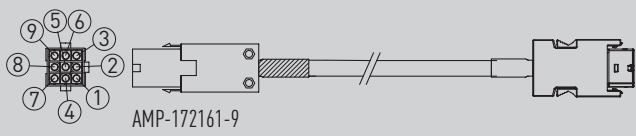
Servo Motors

AC servo motors EM1

Encoder cables

Table 2.20 Encoder cables 23 bit absolute (singleturn) for 50 W – 750 W motors, ED1 drive

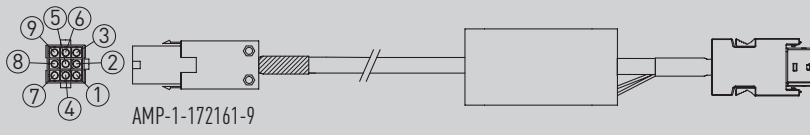
Article number	Order code	Length
8-10-1816	HVE23IAB03MB	3 m
8-10-1817	HVE23IAB05MB	5 m
8-10-1818	HVE23IAB07MB	7 m
8-10-1819	HVE23IAB10MB	10 m



AMP-172161-9

Table 2.21 Encoder cables 23 bit absolute (multiturn) for 50 W – 750 W motors, ED1 drive

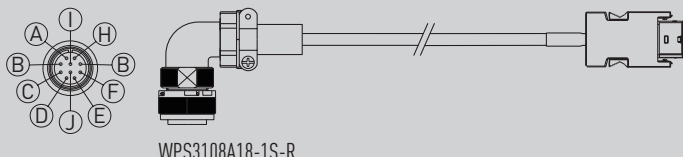
Article number	Order code	Length
8-10-1824	HVE23AAB03MB	3 m
8-10-1825	HVE23AAB05MB	5 m
8-10-1826	HVE23AAB07MB	7 m
8-10-1827	HVE23AAB10MB	10 m



AMP-1-172161-9

Table 2.22 Encoder cables 23 bit absolute (singleturn) for 1,000 W motors and above, ED1 drive

Article number	Order code	Length
80032398	HVE23ICB03MB	3 m
80032411	HVE23ICB05MB	5 m
80032412	HVE23ICB07MB	7 m
80032414	HVE23ICB10MB	10 m

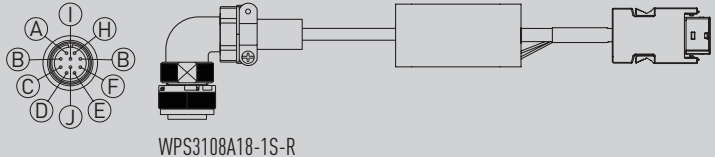


WPS3108A18-1S-R

Encoder cables with straight connector on request

Table 2.23 Encoder cables 23 bit absolute (multiturn) for 1,000 W motors and above, ED1 drive

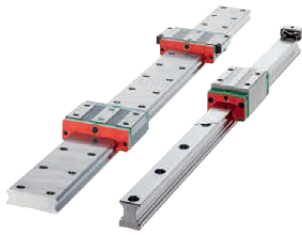
Article number	Order code	Length
80032415	HVE23ACB03MB	3 m
80032416	HVE23ACB05MB	5 m
80032417	HVE23ACB07MB	7 m
80032418	HVE23ACB10MB	10 m



WPS3108A18-1S-R

Encoder cables with straight connector on request

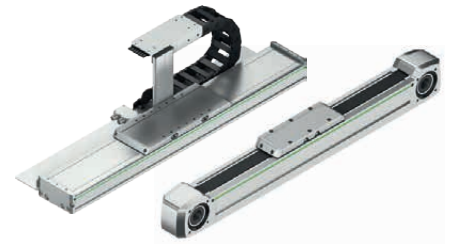
We live motion.



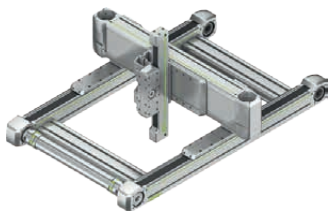
Linear Guideways



Ballscrews



Linear Axes



Linear Axis Systems



Torque Motors



Robots



Linear Motors



Rotary Tables



Drives & Servo Motors

Germany

HIWIN GmbH
Brücklesbünd 1
77654 Offenburg
Deutschland
Fon +49 781 93278-0
info@hiwin.de
hiwin.de

Taiwan

Headquarters
HIWIN Technologies Corp.
No. 7, Jingke Road
Precision Machinery Park
Taichung 40852
Táiwán
Fon +886 4 2359-4510
business@hiwin.tw
hiwin.tw

Taiwan

Headquarters
HIWIN Mikrosystem Corp.
No. 6, Jingke Central Road
Precision Machinery Park
Taichung 40852
Táiwán
Fon +886 4 2355-0110
business@hiwinmikro.tw
hiwinmikro.tw

France

HIWIN GmbH
4 Impasse Joffre
67202 Wolfisheim
France
Fon +33 3 882884-80
contact@hiwin.fr
hiwin.fr

Poland

HIWIN GmbH Biuro Warszawa
ul. Puławska 405a
02-801 Warszawa
Polska
Fon +48 22 46280-00
info@hiwin.pl
hiwin.pl

Switzerland

HIWIN [Schweiz] GmbH
Eichwiesstrasse 20
8645 Jona
Schweiz
Fon +41 55 22500-25
sales@hiwin.ch
hiwin.ch

Italy

HIWIN Srl
Via Pitagora 4
20861 Brugherio (MB)
Italia
Fon +39 039 28761-68
info@hiwin.it
hiwin.it

Slovakia

HIWIN s.r.o., o.z.z.o.
Mládežnícka 2101
01701 Považská Bystrica
Slovensko
Fon +421 424 4347-77
info@hiwin.sk
hiwin.sk

Czech Republic

HIWIN s.r.o.
Medkova 888/11
62700 Brno
Česká republika
Fon +42 05 48528-238
info@hiwin.cz
hiwin.cz

Denmark

HIWIN GmbH
info@hiwin.dk
hiwin.dk

Netherlands

HIWIN GmbH
info@hiwin.nl
hiwin.nl

Austria

HIWIN GmbH
info@hiwin.at
hiwin.at

Hungary

HIWIN GmbH
info@hiwin.hu
hiwin.hu

Romania

HIWIN Srl
info@hiwin.ro
hiwin.ro

Slovenia

HIWIN Srl
info@hiwin.si
hiwin.si

China

HIWIN Corp.
hiwin.cn

Japan

HIWIN Corp.
info@hiwin.co.jp
hiwin.co.jp

USA

HIWIN Corp.
info@hiwin.com
hiwin.us

Korea

HIWIN Corp.
hiwin.kr

Singapore

HIWIN Corp.
hiwin.sg