VD2 B TYPE SERVO DRIVER

Driver Naming Rules

VD2 — 014 014 A1 G

Series	Max output current	Voltage	Encoder type	Function
VD2	010: 10A	S: 220V	A1: Absolute encoder	P: Basic pulse control
VD2F	014: 14A	T: 380V	E1: incremental encoder	G: Universal (Pos,Speed,Torque)
VD3E	016: 16A			H: High speed DO (Pulse feedback collector output)
	019: 19A			R: Support external PID function
	021: 21A			
	025: 25A			
	030: 30A			

Motor Naming Rules

WD 80 M 075 30 S E1 F

Series	Flange Size	Motor Inertia	Rated Power	Rated Speed	Voltage	Encoder Type	Motor Structure
WD:5-pole	40mm	L : Low inertia	010: 100W	15: 1500rpm	S: 220V	E1: 2500 Liner incremental optical encode	F: Oil sealed
WE:4-pole	60mm	M : Medium inertia	020: 200W	20: 2000rpm	T: 380V	A1: 17 bit single Magnetic encoder	G: Oil sealed+Brake
	80mm	H : High inertia	040: 400W	25: 2500rpm		C1:17bit Multi Magnetic encoder	B: Oil sealed
	110 mm		073: 730W	30: 3000rpm		D2:23bit Multi Optical encoder	C: Oil sealed+Brake
	130 mm		075: 750W				
			100: 1KW				
			110: 1.1KW				
			120: 1.2KW				
			150: 1.5KW				
			180: 1.8KW				
			200: 2.0KW				
			230: 2.3KW				
			260: 2.6KW				
			380: 3.8KW				

VD2 B TYPE SERVO DRIVER

VD2 17 bit Absolute Single-turn Magnetic Encoder

Flange Size	Motor Model	Drive Model	Rated Torque (N.m)	Rated Speed (rpm)	Voltage
80	WE80M-11030S-A1F	VD2-016SA1G	3.5	3000	220V
		VD2-016SA1H	3.5	3000	220V
80	WE80M-10025S-A1F	VD2-016SA1G	4	2500	220V
		VD2-016SA1H	4	2500	220V
80	WE80M-12030S-A1F	VD2-016SA1G	4	3000	220V
		VD2-016SA1H	4	3000	220V
110	WE110M-12030S-A1F	VD2-016SA1G	4	3000	220V
		VD2-016SA1H	4	3000	220V
110	WE110M-15030S-A1F	VD2-019SA1G	5	3000	220V
		VD2-019SA1H	5	3000	220V
110	WE110M-18030S-A1F	VD2-019SA1G	6	3000	220V
		VD2-019SA1H	6	3000	220V
130	WE130M-10025S-A1F	VD2-016SA1G	4	2500	220V
		VD2-016SA1H	4	2500	220V
130	WE130M-13025S-A1F	VD2-016SA1G	5	2500	220V
		VD2-016SA1H	5	2500	220V
130	WE130M-15025S-A1F	VD2-019SA1G	6	2500	220V
		VD2-019SA1H	6	2500	220V
130	WE130M-20025S-A1F	VD2-021SA1G	7.7	2500	220V
		VD2-021SA1H	7.7	2500	220V
130	WE130M-15015S-A1F	VD2-016SA1G	10	1500	220V
		VD2-016SA1H	10	1500	220V
130	WE130M-26025S-A1F	VD2-021SA1G	10	2500	220V
		VD2-021SA1H	10	2500	220V
130	WE130M-23015S-A1F	VD2-019SA1G	15	1500	220V
		VD2-019SA1H	15	1500	220V
130	WE130M-38025S-A1F	VD2-021SA1G	15	2500	220V
		VD2-021SA1H	15	2500	220V
130	WE130M-20025T-A1F	VD2-021TA1G	7.7	2500	380V
130	WE130M-26025T-A1F	VD2-021TA1G	10	2500	380V
130	WE130M-38025T-A1F	VD2-021TA1G	15	2500	380V
130	WE130M-42020T-A1F	VD2-021TA1G	20	2000	380V
130	WE130M-53030T-A1F	VD2-021TA1G	17	3000	380V

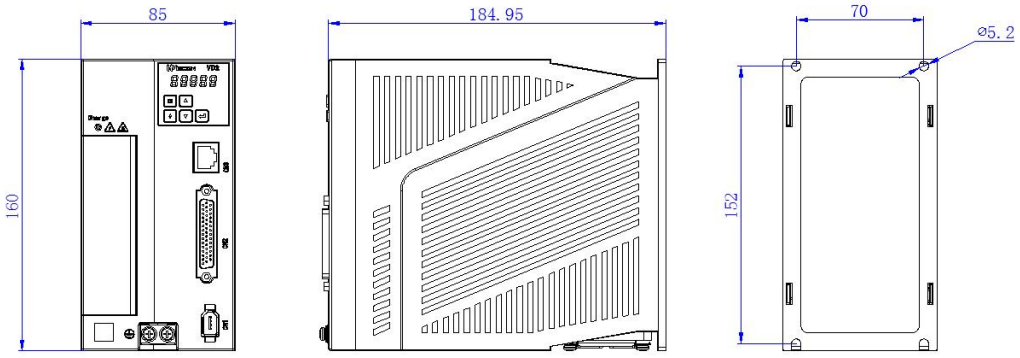
VD2 17 bit Absolute Multi-turn Magnetic Encoder

Flange Size	Motor Model	Drive Model	Rated Torque (N.m)	Rated Speed (rpm)	Voltage
80	WE80M-11030S-C1F	VD2-016SA1G	3.5	3000	220V
		VD2-016SA1H	3.5	3000	220V
80	WE80M-12030S-C1F	VD2-016SA1G	4	3000	220V
		VD2-016SA1H	4	3000	220V
110	WE110M-12030S-C1F	VD2-016SA1G	4	3000	220V
		VD2-016SA1H	4	3000	220V
110	WE110M-15030S-C1F	VD2-019SA1G	5	3000	220V
		VD2-019SA1H	5	3000	220V
110	WE110M-18030S-C1F	VD2-019SA1G	6	3000	220V
		VD2-019SA1H	6	3000	220V
130	WE130M-10025S-C1F	VD2-016SA1G	4	2500	220V
		VD2-016SA1H	4	2500	220V
130	WE130M-13025S-C1F	VD2-016SA1G	5	2500	220V
		VD2-016SA1H	5	2500	220V
130	WE130M-15025S-C1F	VD2-019SA1G	6	2500	220V
		VD2-019SA1H	6	2500	220V
130	WE130M-20025S-C1F	VD2-021SA1G	7.7	2500	220V
		VD2-021SA1H	7.7	2500	220V
130	WE130M-15015S-C1F	VD2-016SA1G	10	1500	220V
		VD2-016SA1H	10	1500	220V
130	WE130M-26025S-C1F	VD2-021SA1G	10	2500	220V
		VD2-021SA1H	10	2500	220V
130	WE130M-23015S-C1F	VD2-019SA1G	15	1500	220V
		VD2-019SA1H	15	1500	220V
130	WE130M-38025S-C1F	VD2-021SA1G	15	2500	220V
		VD2-021SA1H	15	2500	220V
130	WE130M-20025T-C1F	VD2-021TA1G	7.7	2500	380V
130	WE130M-26025T-C1F	VD2-021TA1G	10	2500	380V

130	WE130M-38025T-C1F	VD2-021TA1G	15	2500	380V
130	WE130M-53030T-C1F	VD2-021TA1G	17	3000	380V

VD2 23 bit Absolute Multi-turn Optical Encoder

Flange Size	Motor Model	Drive Model	Rated Torque (N.m)	Rated Speed (rpm)	Voltage
80	WE80M-11030S-D2F	VD2-016SA1G	3.5	3000	220V
		VD2-016SA1H	3.5	3000	220V
80	WE80M-12030S-D2F	VD2-016SA1G	4	3000	220V
		VD2-016SA1H	4	3000	220V
110	WE110M-12030S-D2F	VD2-016SA1G	4	3000	220V
		VD2-016SA1H	4	3000	220V
110	WE110M-15030S-D2F	VD2-019SA1G	5	3000	220V
		VD2-019SA1H	5	3000	220V
110	WE110M-18030S-D2F	VD2-019SA1G	6	3000	220V
		VD2-019SA1H	6	3000	220V
130	WE130M-10025S-D2F	VD2-016SA1G	4	2500	220V
		VD2-016SA1H	4	2500	220V
130	WE130M-13025S-D2F	VD2-016SA1G	5	2500	220V
		VD2-016SA1H	5	2500	220V
130	WE130M-15025S-D2F	VD2-019SA1G	6	2500	220V
		VD2-019SA1H	6	2500	220V
130	WE130M-20025S-D2F	VD2-021SA1G	7.7	2500	220V
		VD2-021SA1H	7.7	2500	220V
130	WE130M-15015S-D2F	VD2-016SA1G	10	1500	220V
		VD2-016SA1H	10	1500	220V
130	WE130M-26025S-D2F	VD2-021SA1G	10	2500	220V
		VD2-021SA1H	10	2500	220V
130	WE130M-23015S-D2F	VD2-019SA1G	15	1500	220V
		VD2-019SA1H	15	1500	220V
130	WE130M-38025S-D2F	VD2-021SA1G	15	2500	220V
		VD2-021SA1H	15	2500	220V
130	WE130M-26025S-D2F	VD2-021SA1G	10	2500	220V
		VD2-021SA1H	10	2500	220V
130	WE130M-38025S-D2F	VD2-021SA1G	15	2500	220V
		VD2-021SA1H	15	2500	220V
130	WE130M-20025T-D2F	VD2-021TA1G	7.7	2500	380V
130	WE130M-26025T-D2F	VD2-021TA1G	10	2500	380V
130	WE130M-38025T-D2F	VD2-021TA1G	15	2500	380V
130	WE130M-53030T-D2F	VD2-021TA1G	17	3000	380V
180	WE180M-30015T-D2F	VD2-021TA1G	19	1500	380V
180	WE180M-43015T-D2F	VD2-021TA1G	27	1500	380V
180	WE180M-55015T-D2F	VD2-021TA1G	35	1500	380V



SPECIFICATION

Item			VD2 Series
Basic Specifications	Voltage		220V / 380V
	Control Method		IGBT PWM controlled sine wave current drive
	Encoder		2500ppr incremental encoder; 17 bit, 23 bit absolute encoder
	Input Signal		8*DI
	Output Signal		4*DO
	Analog Signal Input		2*AI input(-10v~10v)
	Pulse Signal Input		Open collector or differential input
	Pulse Feedback Output		A,B,Z differential output
	Internal Instructions		Support 8 internal speed commands and internal multi-segment position commands
	Communication/Debug		Support to communicate with modbus device and debug with SCTools at the same time. (SCTools can set&monitor servo parameters,monitor waveform,self-tuning parameter,etc.)
	Braking Resistor		400W without built-in baking resistor; both support external braking resistor
Function Setting	General Function	Self-tuning	SCTools supports self-turning function,and identifies load inertia identification and rigidity level, and other parameters.
		Waveform Monitoring	View position, speed, torque and other curves on PC in real time
		Waveform Storage	The original waveform data could be stored for up to 10s
		Parameter Import / Export	Support batch parameter import and export; support PLC configurate servo parameters automatically (supported by some models)
		Vibration Suppression	Suppress mechanical vibration by setting vibration suppression parameters
		Protective Function	Overvoltage, undervoltage, overcurrent, overspeed, overload, overheating, encoder failure, excessive position deviation, torque limit, speed limit, etc
		Brake	Support
		Universal Control DI	Servo enable (SON), fault and warning clear (A-CLR), forward drive prohibition (POT), reverse drive prohibition (NOT), command reverse (C-SIGN), emergency stop (E-STOP), Gain switching (GAIN-SEL), Multi-speed command selection(INSPD1、INSPD2、INSPD3)；Internal multi-position command selection and enable（POS1,POS2, POS3,POS4, POSEN）
		Universal Control DO	Servo ready (RDY), fault signal (ALM), warning signal (WARN), rotation detection (TGON), zero speed signal (ZSP), torque limit (T-LIMIT), speed limit (V-LIMIT),servo on state output (SRV-ST), servo brake output（BRK-OFF）
	Pulse Input	Pulse Frequency	Maximum 500khz
		Pulse Type	Pulse + Direction, CCW/CW pulse, Quadraturel encoding
		Pulse Filtering	First-order low-pass filter or smooth filter
		Pulse Output	Differential Quadraturel encoding A, B, Z output; PPR is settable by p0-16 or P0-17~P0-20.
	Speed Mode	Command Input	-10V~+10V analog input internal speed command (Maximum 8)
		Zero Clamp	Motor speed could be clamped to zero via the setting of zero clamp function
		Torque Limit	Support to set the torque limit
	Torque Mode	Command Input	-10V~+10V analog input and Internal torque command
		Torque Reaching	Torque reaching threshold and DO can be set flexibly
		Speed Limit	The speed limit can be set flexibly

SERVO MOTOR

80 Series Motor Specification

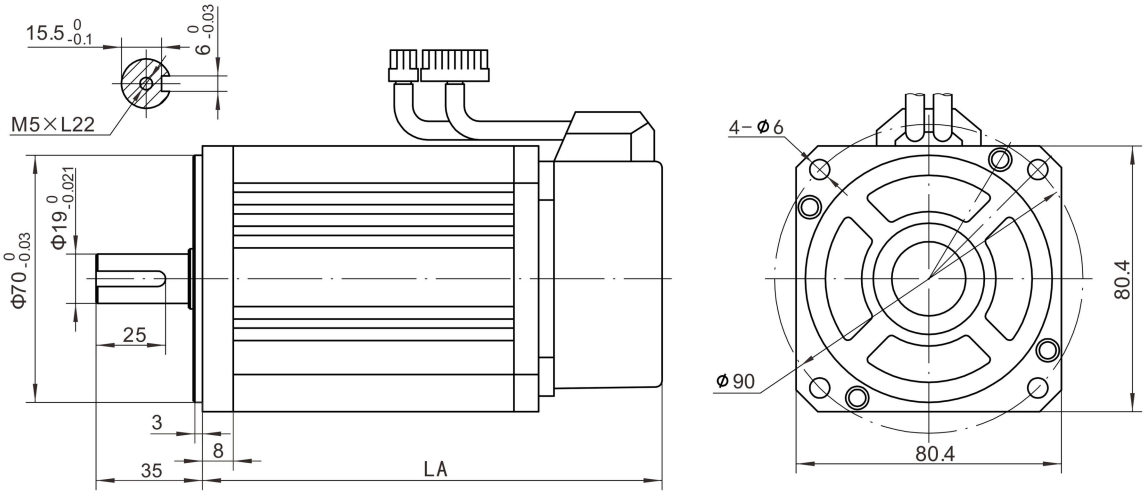
Motor model	WD80M-11030S☆△	WD80M-10025S☆△	WD80M-12030S☆△
Rated power (kW)	1.1	1	1.2
Rated torque (N·m)	3.5	4	4
Rated speed (r/min)	3000	2500	3000
Brake	Optional	Optional	Optional
LA without Brake (mm)	179	191	191
LA with Brake (mm)	221	233	233

Remark:

☆: A1-17 bit single Magnetic encoder; C1-17 bit Multi Magnetic encode; D2- 23bit Multi Optical encoder

△: F-sealed; G-sealed & Brake

-L: Connector type



SERVO MOTOR

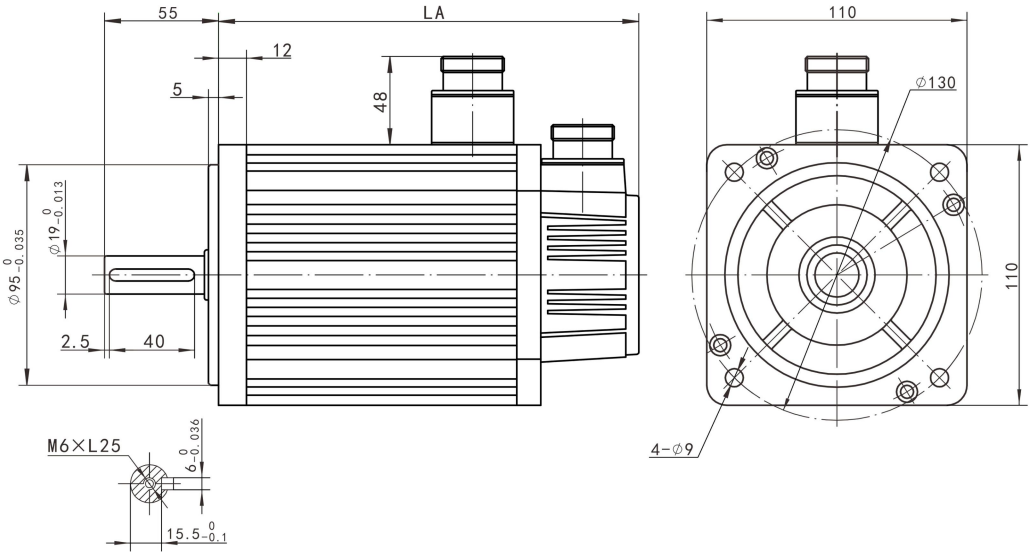
110 Series Motor Specification

Motor model	WE110M-12030S☆△	WE110M-15030S☆△	WE110M-18030S☆△
Rated power (kW)	1.2	1.5	1.8
Rated torque (N·m)	4	5	6
Rated speed (r/min)	3000	3000	3000
Brake	Optional	Optional	Optional
LA without Brake (mm)	189	204	219
LA with Brake (mm)	254	269	284

Remark:

☆: A1-17 bit single Magnetic encoder; C1-17 bit Multi Magnetic encode; D2- 23bit Multi Optical encoder

△: F-sealed; G-sealed & Brake



SERVO MOTOR

130 Series Motor Specification

Motor model	WE130M-10025S☆ △	WE130M-13025S☆ △	WE130M-15025S☆ △	WE130M-20025S☆ △
Rated power (kW)	1.0	1.3	1.5	2.0
Rated torque (N·m)	4	5	5	7.7
Rated speed (r/min)	2500	2500	2500	2500
Brake	Optional	Optional	Optional	Optional
LA without Brake (mm)	166	171	171	192
LA with Brake (mm)	226	231	231	252

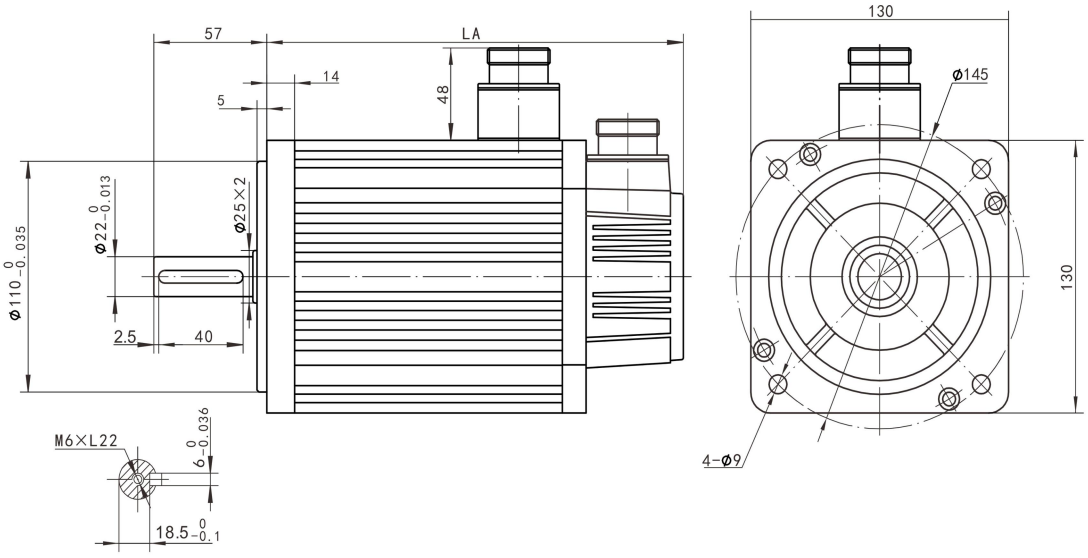
Motor model	WE130M-15015S☆ △	WE130M-26025S☆ △	WE130M-23015S☆ △	WE130M-38025S☆ △
Rated power (kW)	1.5	2.6	2.3	3.8
Rated torque (N·m)	10	10	15	15
Rated speed (r/min)	1500	2500	1500	2500
Brake	Optional	Optional	Optional	Optional
LA without Brake (mm)	213	213	241	231
LA with Brake (mm)	279	279	304	294

Remark:

☆ : A1-17 bit single Magnetic encoder; C1-17 bit Multi Magnetic encode; D2- 23bit Multi Optical encoder

△ : F-sealed; G-sealed & Brake

-L : Connector type



SERVO MOTOR

130 Series Motor Specification

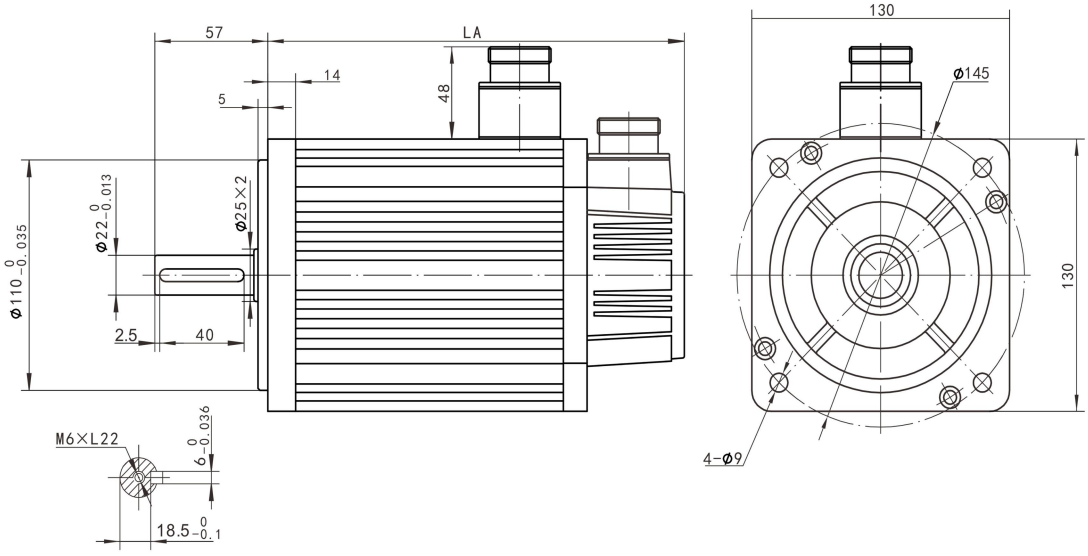
Motor model	WE130M-20025T☆△	WE130M-26025T☆△	WE130M-38025T☆△
Rated power (kW)	2.0	2.6	3.8
Rated torque (N·m)	7.7	10	15
Rated speed (r/min)	2500	2500	2500
Brake	Optional	Optional	Optional
LA without Brake (mm)	192	213	231
LA with Brake (mm)	252	279	294

Remark:

☆: A1-17 bit single Magnetic encoder; C1-17 bit Multi Magnetic encode; D2- 23bit Multi Optical encoder

△: F-sealed; G-sealed & Brake

-L: Connect



SERVO MOTOR

180 Series Motor Specification

Motor model	WE180M-30015T☆△	WE130M-43015T☆△	WE130M-55015T☆△
Rated power (kW)	3.0	4.3	5.5
Rated torque (N·m)	19	27	35
Rated speed (r/min)	1500	1500	1500
Brake	Optional	Optional	Optional
LA without Brake (mm)	226	362	292
LA with Brake (mm)	298	334	364

Remark:

☆: A1-17 bit single Magnetic encoder; C1-17 bit Multi Magnetic encode; D2- 23bit Multi Optical encoder

△: F-sealed; G-sealed & Brake

-L: Connect