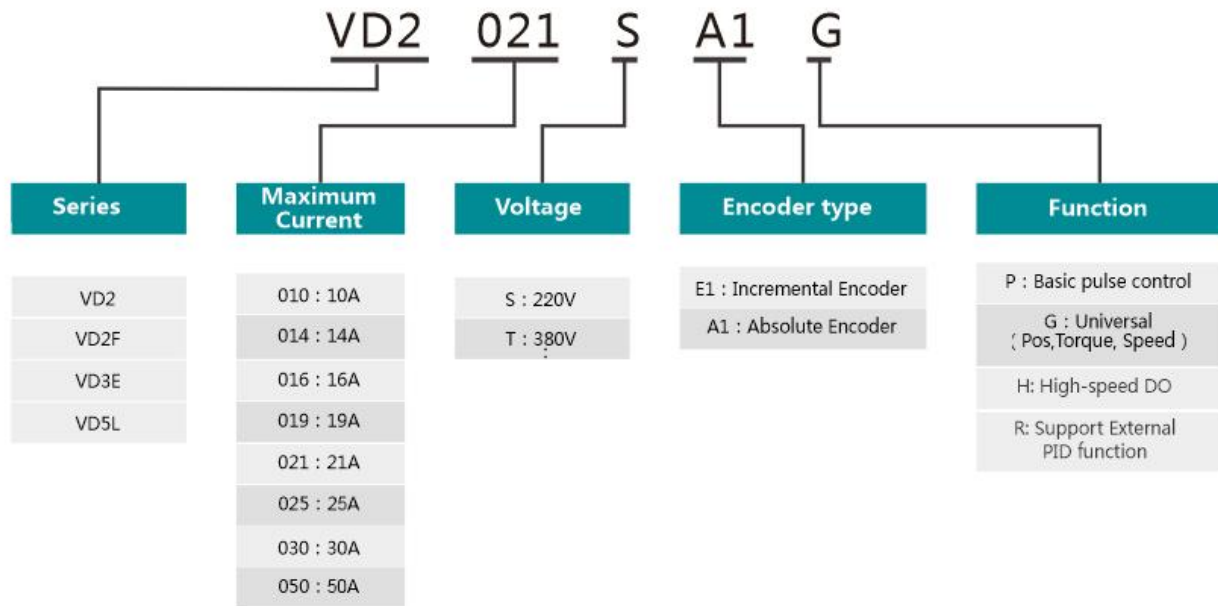
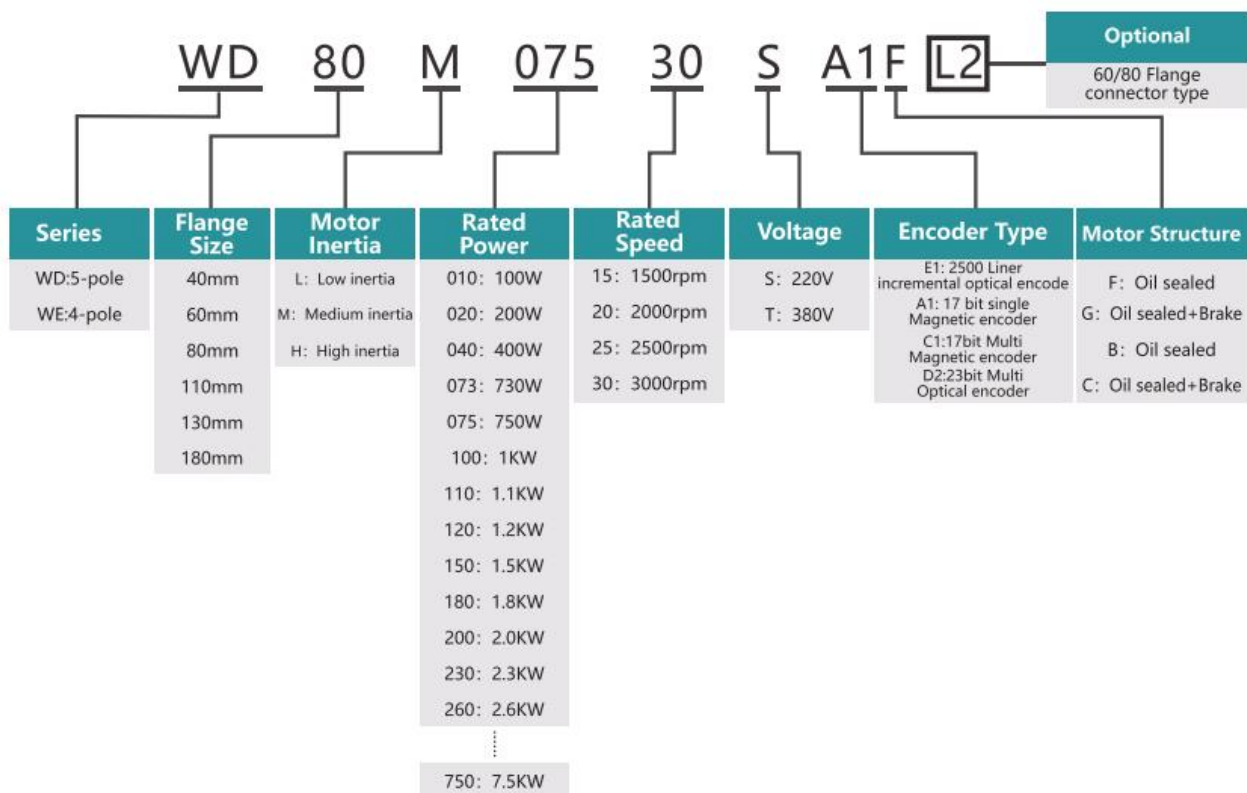


## Drive Naming Rules



## Motor Naming Rules



## VD5L Drive and Motor Matching Table

Flange Size	Motor Model	Drive Model	Rated Torque (N.m)	Rated Speed (rpm)	Power (kW)	Voltage
40	WD40M-01030S-□□□	VD5L-003SA1P	0.318	3000	0.1	220V
60	WD60M-02030S-□□□	VD5L-010SA1P	0.64	3000	0.2	220V
60	WD60H-02030S-□□□	VD5L-010SA1P	0.64	3000	0.2	220V
60	WD60M-04030S-□□□	VD5L-010SA1P	1.27	3000	0.4	220V
60	WD60H-04030S-□□□	VD5L-010SA1P	1.27	3000	0.4	220V
40	WE60M-04030S-□□□	VD5L-010SA1P	1.27	3000	0.4	220V
60	WD60M-06030S-□□□	VD5L-014SA1P	1.91	3000	0.6	220V
60	WD60H-06030S-□□□	VD5L-014SA1P	1.91	3000	0.6	220V
80	WD80M-07530S-□□□	VD5L-014SA1P	2.39	3000	0.75	220V
80	WD80H-07530S-□□□	VD5L-014SA1P	2.39	3000	0.75	220V
80	WE80M-07530S-□□□	VD5L-014SA1P	2.39	3000	0.75	220V
80	WD80M-10030S-□□□	VD5L-014SA1P	3.18	3000	1	220V
80	WD80H-10030S-□□□	VD5L-014SA1P	3.2	3000	1	220V
80	WE80M-07320S-□□□	VD5L-014SA1P	3.5	2000	0.73	220V
80	WD80M-10025S-□□□	VD5L-014SA1P	3.82	2500	1	220V
80	WD80H-10025S-□□□	VD5L-014SA1P	3.82	2500	1	220V
80	WD80H-10020S-□□□	VD5L-014SA1P	4.77	2000	1	220V
130	WD130M-08515S-□□□	VD5L-015SA1P	5.41	1500	0.85	220V
80	WE80M-11030S-□□□	VD5L-015SA1P	3.5	3000	1.1	220V
80	WE80M-12030S-□□□	VD5L-015SA1P	4	3000	1.2	220V
80	WD80H-10025S-□□□	VD5L-015SA1P	3.82	2500	1	220V
80	WD80H-10030S-□□□	VD5L-015SA1P	3.2	3000	1	220V
130	WE130M-10025S-□□□	VD5L-015SA1P	4	2500	1	220V
110	WE110M-12030S-□□□	VD5L-015SA1P	4	3000	1.2	220V
130	WE130M-13025S-□□□	VD5L-015SA1P	5	2500	1.3	220V

**Remark:** □□□ Not all motor models include the following categories.

A1F: 17-bit single-turn absolute magnetic encoder without brake.

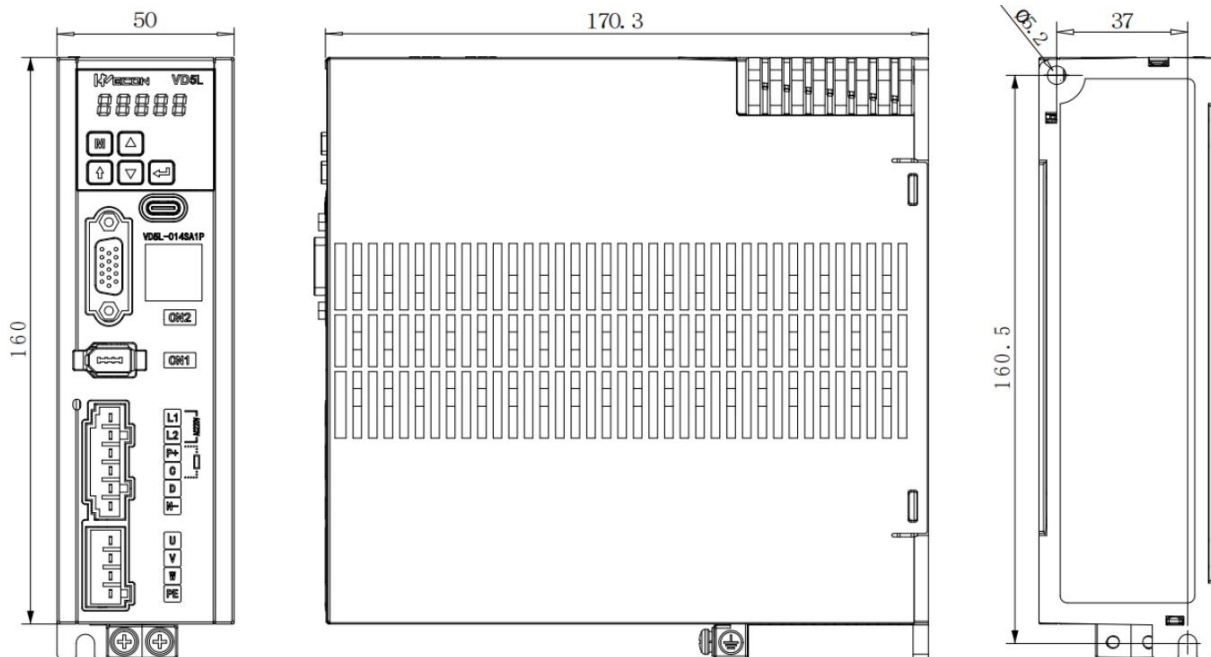
A1G: 17-bit single-turn absolute magnetic encoder with brake.

C1F: 17-bit multi-turn absolute magnetic encoder without brake.

C1G: 17-bit multi-turn absolute magnetic encoder with brake.

D2F: 23-bit multi-turn absolute Optical encoder without brake.

D2G: 23-bit multi-turn absolute Optical encoder with brake.



# SPECIFICATION

	Item	VD5L
Basic Specifications	Power Supply	AC 220V
	Control Method	IGBT PWM control sine wave current drive
	Encoder Feedback	17bit/23bit absolute encoder
	Control Signal Input	4 DI, select the input function according to the function code configuration
	Control Signal Output	3 DO, select the output function according to the function code configuration
	Communication	The Type-C interface can be used to set function code parameters, monitor status, and view waveform through SCTool. Parameter self-tuning, etc.
	Braking Resistor	Built-in braking resistor, supports external braking resistor
General Function	Automatic Parameter Tuning	Automatic load inertia identification, automatic rigidity self-tuning
	Waveform View	4 channels waveform monitoring
	Waveform Storage	The waveform acquisition frequency is 1KHz, and the original waveform data can be saved up to 10s
	Parameter Management	Support batch parameter import and export; Support SDO download
	Vibration Suppression	By setting the notch filter parameters
	Protection	Overvoltage, undervoltage, overcurrent, overspeed, overload, overheating, encoder failure, excessive position deviation, torque limit, speed limit, etc.
	Brake Device	Support brake signal output
	DI Function	Error/alarm clear(A-CLR), forward rotation prohibited(POT), backward rotation prohibited(NOT), emergency stop(E-STOP), touch probe
	DO Function	Servo ready(RDY), error signal(ALM), alarm signal(WARN), rotation detection(TGON), zero speed signal(ZSP), torque limit(T-LIMIT), speed limit(V- LIMIT), servo start(SRV-ST), servo brake output(BRK-OFF), communication VDO
EtherCAT	Communication Protocol	EtherCAT protocol
	Support Service	CoE(PDO, SDO)
	Synchronously physical Layer	DC-distributed clock
	Baud Rate	100 Mbit/s(100BASE-TX)
	Duplex Mode	Full duplex
	Topology	Circular, linear
	Transmission Medium	Shielded Cat 5e or better network cable.
	Transmission Distance	Less than 100M between two nodes(good environment, good cables)
	Frame Length	44 bytes~1498 bytes
	Process Data	Maximum size of a single Ethernet frame is 1486 bytes
	Sync Jitter	<1us
	Distributed Clock	64 bit
	EEPROM Capacity	8kbit initialization data is written by the EtherCAT master station
	Control Mode	CSP, CSV, CST, PT, HM
	Sync Cycle	125μs