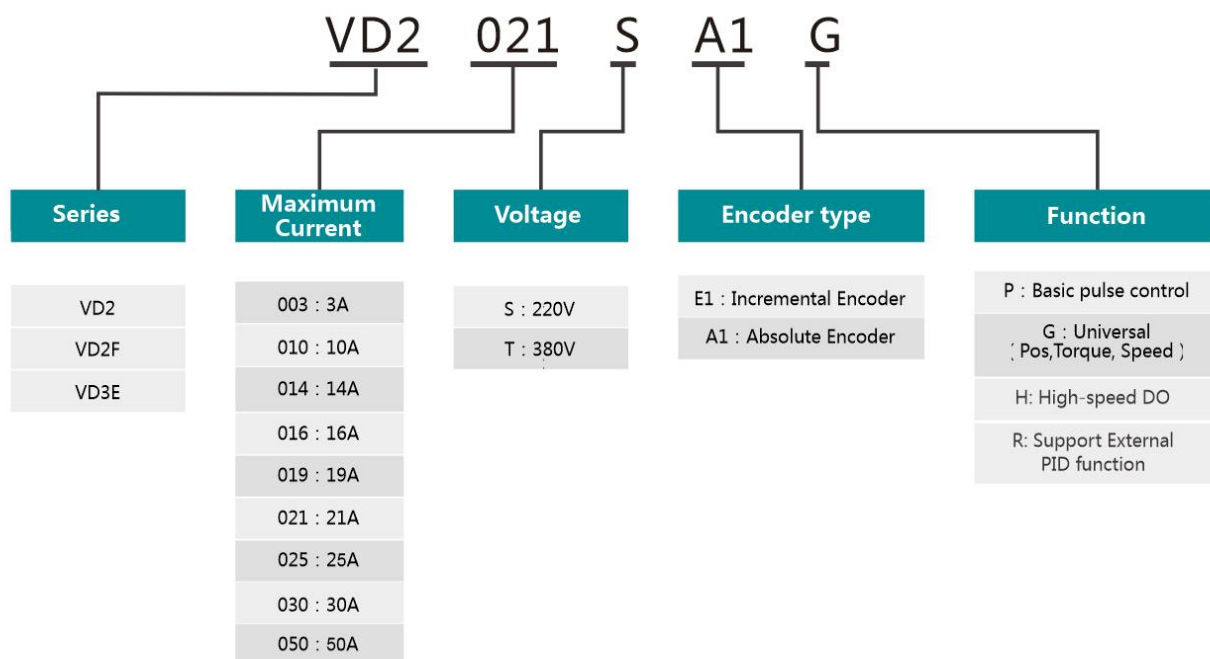
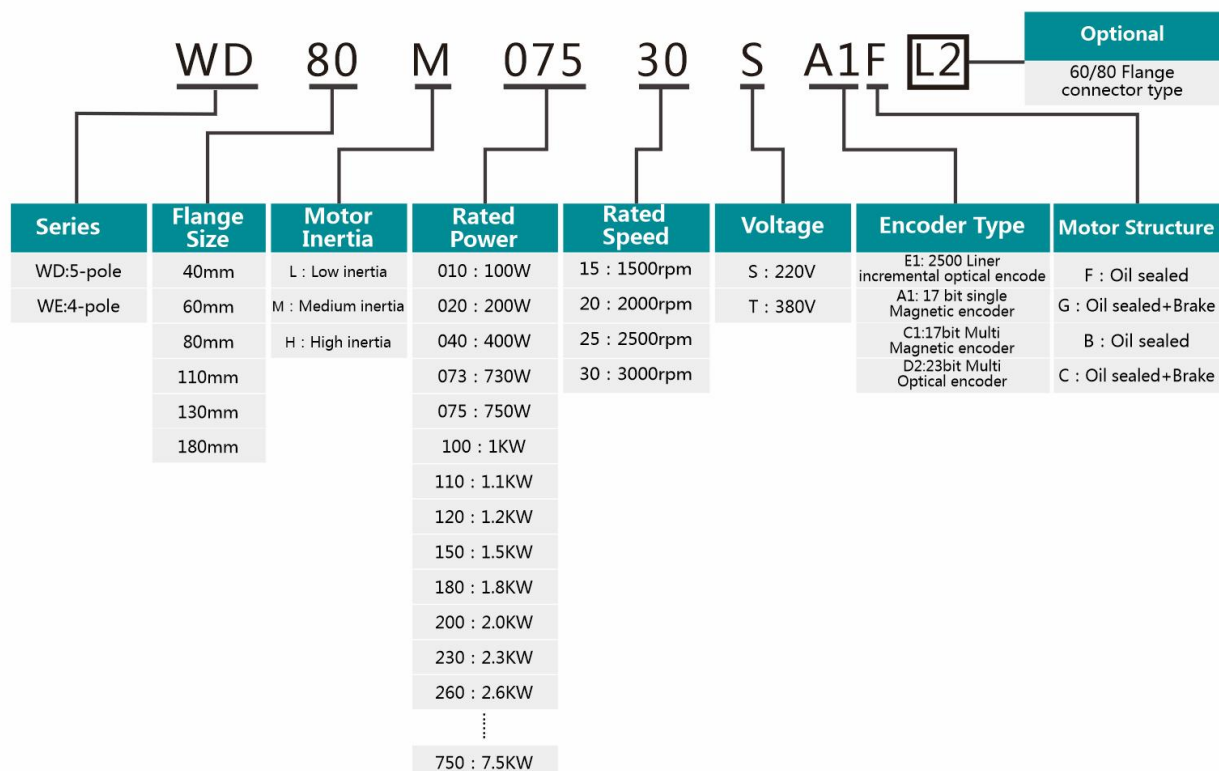


Drive Naming Rules



Motor Naming Rules



VD3E TYPE C Drive and Motor Matching Table

Flange Size	Motor Model	Drive Model	Rated Torque (N.m)	Rated Speed (rpm)	Power (kW)	Voltage
180	WE180M-45020T-D2F	VD3E-030TA1G	21.5	2000	4.5	380V
180	WE180M-55015T-D2G	VD3E-030TA1G	21.5	2000	4.5	380V
180	WE180M-75015T-D2F	VD3E-040TA1G	35	1500	5.5	380V
180	WE180M-45020T-D2G	VD3E-040TA1G	35	1500	5.5	380V
180	WE180M-55015T-D2F	VD3E-050TA1G	48	1500	7.5	380V
180	WE180M-75015T-D2G	VD3E-050TA1G	48	1500	7.5	380V

**Remark:**

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

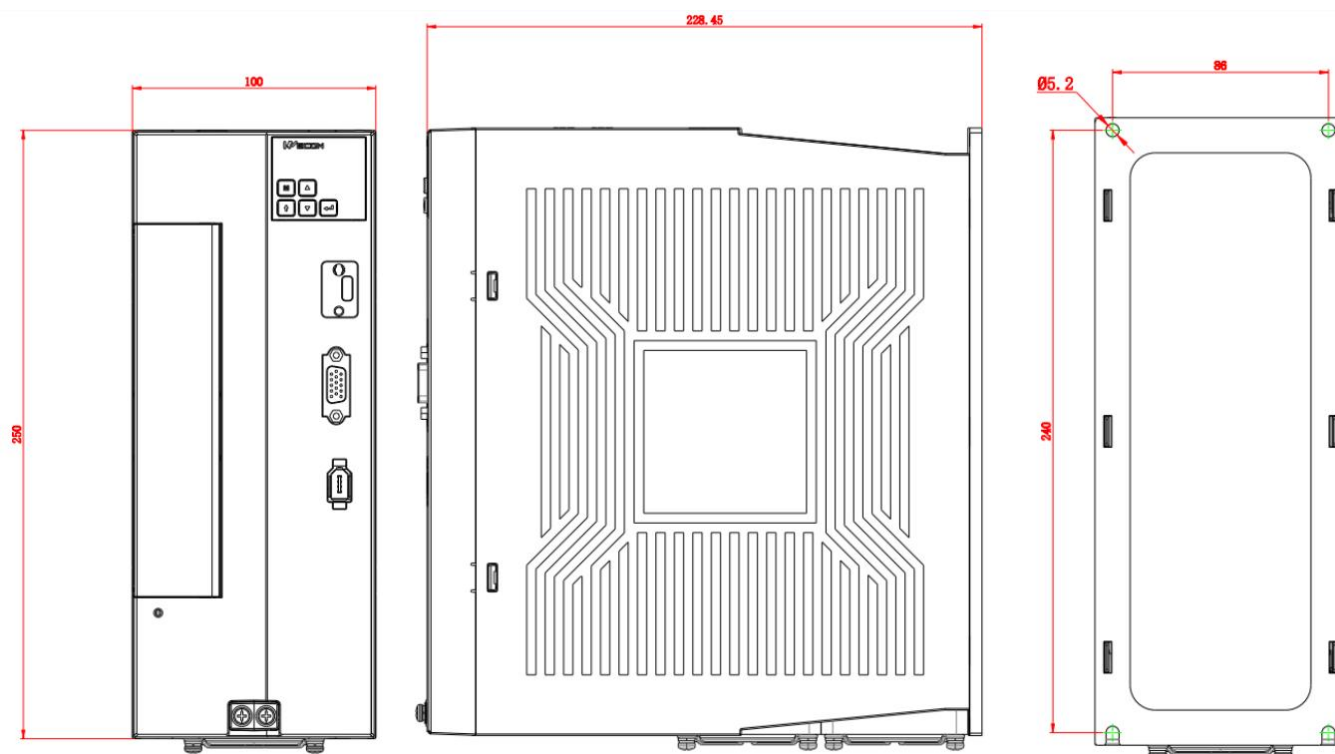
A1G: 17-bit single-turn absolute magnetic encoder with brake.

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		VD3E C TYPE
Basic Specifications	Power Supply	AC 380V
	Control Method	IGBT PWM control sine wave current drive
	Encoder Feedback	17bit/23bit absolute encoder
	Control Signal Input	6 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 modification
	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(DI5, DI6)
	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 to 1498 bytes
	Process Data	Maximum size of a single Ethernet frame is 1486 bytes
	Sync Jitter	<1us
	Distributed Clock	64 bit
	EEPROM Capacity	8k bit initialization data is written by the EtherCAT master station
	Control Mode	CSP, CSV, CST, PT, HM
	Sync Cycle	125μs