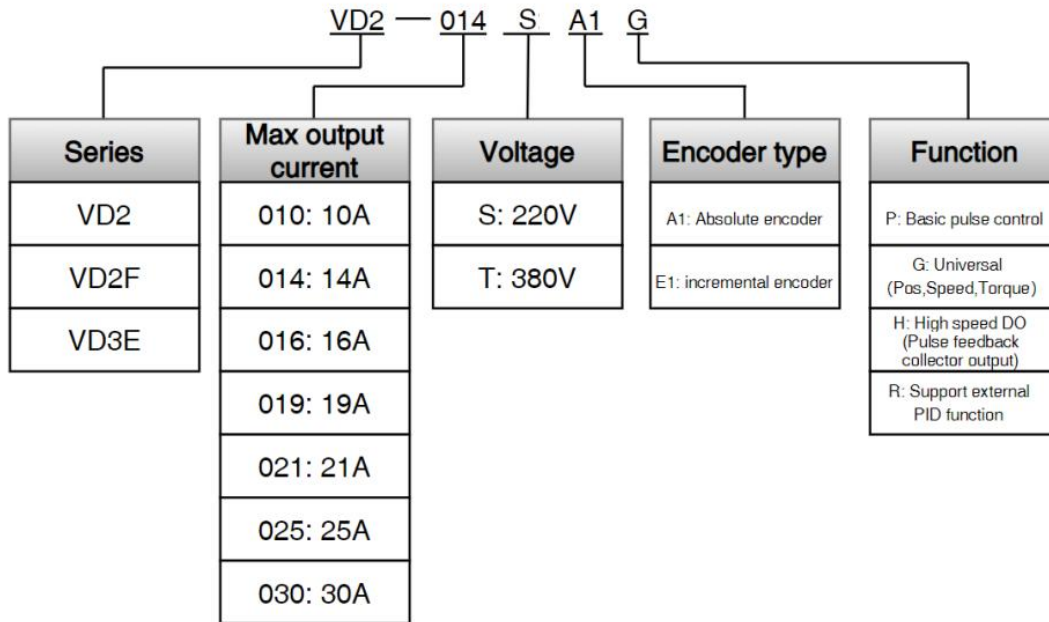
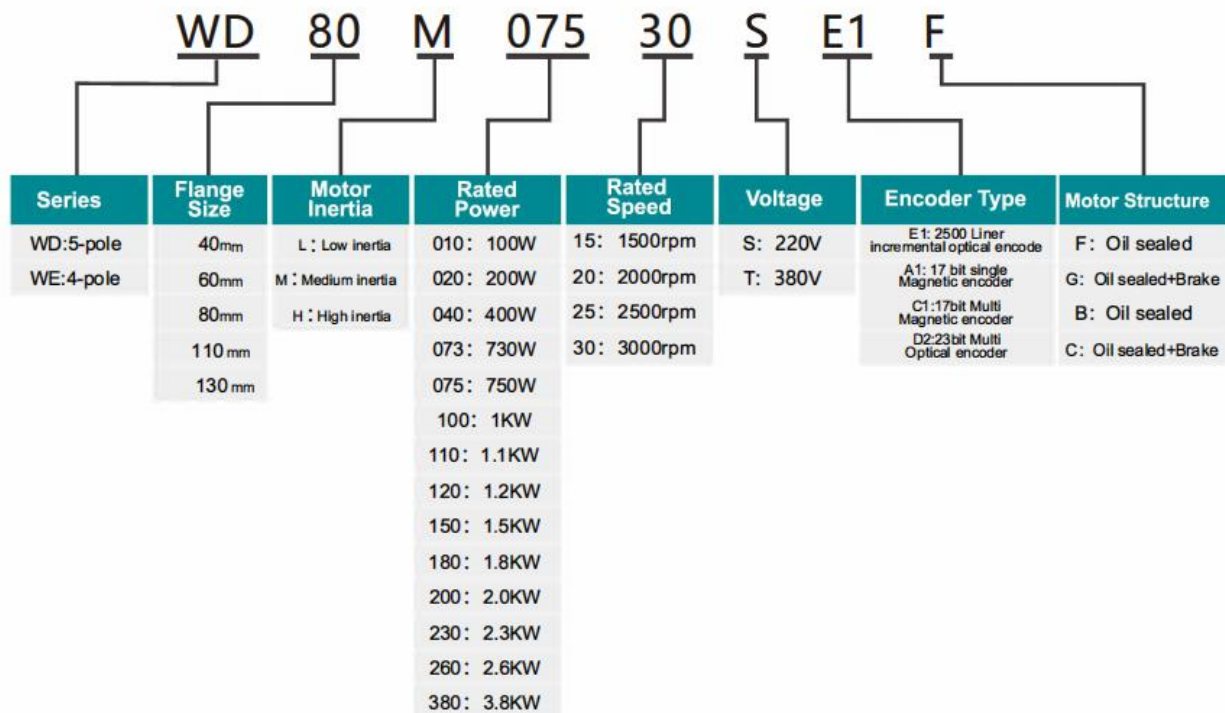


Drive Naming Rules



Motor Naming Rules



VD2 17 bit Absolute Single-turn Magnetic Encoder

| Flange Size | Motor Model | Drive Model | Rated Torque (N.m) | Rated Speed (rpm) | Voltage |
|-------------|--------------------|-------------|--------------------|-------------------|---------|
| 60 | WD60M-02030S-A1F-L | VD2-010SA1G | 0.64 | 3000 | 220V |
| | | VD2-010SA1H | 0.64 | 3000 | 220V |
| 60 | WD60M-04030S-A1F | VD2-010SA1G | 1.27 | 3000 | 220V |
| | | VD2-010SA1H | 1.27 | 3000 | 220V |
| 60 | WD60M-04030S-A1F-L | VD2-010SA1G | 1.27 | 3000 | 220V |
| | | VD2-010SA1H | 1.27 | 3000 | 220V |
| 80 | WD80M-07530S-A1F | VD2-014SA1G | 2.39 | 3000 | 220V |
| | | VD2-014SA1H | 2.39 | 3000 | 220V |
| 80 | WD80M-07530S-A1F-L | VD2-014SA1G | 2.39 | 3000 | 220V |
| | | VD2-014SA1H | 2.39 | 3000 | 220V |
| 80 | WD80M-10030S-A1F | VD2-014SA1G | 3.18 | 3000 | 220V |
| | | VD2-014SA1H | 3.18 | 3000 | 220V |
| 80 | WD80M-10030S-A1G | VD2-014SA1G | 3.18 | 3000 | 220V |
| | | VD2-014SA1H | 3.18 | 3000 | 220V |

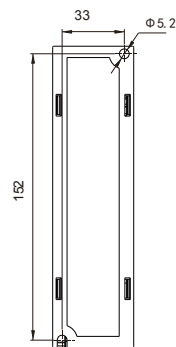
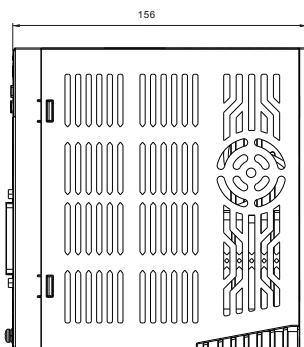
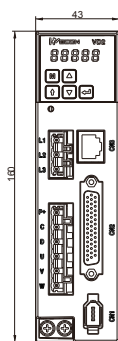


VD2 17 bit Absolute Multi-turn Magnetic Encoder

| Flange Size | Motor Model | Drive Model | Rated Torque (N.m) | Rated Speed (rpm) | Voltage |
|-------------|--------------------|-------------|--------------------|-------------------|---------|
| 60 | WD60M-02030S-C1F-L | VD2-010SA1G | 0.64 | 3000 | 220V |
| | | VD2-010SA1H | 0.64 | 3000 | 220V |
| 60 | WD60M-04030S-C1F | VD2-010SA1G | 1.27 | 3000 | 220V |
| | | VD2-010SA1H | 1.27 | 3000 | 220V |
| 60 | WD60M-04030S-C1F-L | VD2-010SA1G | 1.27 | 3000 | 220V |
| | | VD2-010SA1H | 1.27 | 3000 | 220V |
| 80 | WD80M-07530S-C1F | VD2-014SA1G | 2.39 | 3000 | 220V |
| | | VD2-014SA1H | 2.39 | 3000 | 220V |
| 80 | WD80M-07530S-C1F-L | VD2-014SA1G | 2.39 | 3000 | 220V |
| | | VD2-014SA1H | 2.39 | 3000 | 220V |
| 80 | WD80M-10030S-C1F | VD2-014SA1G | 3.18 | 3000 | 220V |
| | | VD2-014SA1H | 3.18 | 3000 | 220V |
| 80 | WD80M-10030S-C1G | VD2-014SA1G | 3.18 | 3000 | 220V |
| | | VD2-014SA1H | 3.18 | 3000 | 220V |

VD2 23 bit Absolute Multi-turn Optical Encoder

| Flange Size | Motor Model | Drive Model | Rated Torque (N.m) | Rated Speed (rpm) | Voltage |
|-------------|--------------------|-------------|--------------------|-------------------|---------|
| 60 | WD60M-02030S-D2F-L | VD2-010SA1G | 0.64 | 3000 | 220V |
| | | VD2-010SA1H | 0.64 | 3000 | 220V |
| 60 | WD60M-04030S-D2F | VD2-010SA1G | 1.27 | 3000 | 220V |
| | | VD2-010SA1H | 1.27 | 3000 | 220V |
| 60 | WD60M-04030S-D2F-L | VD2-010SA1G | 1.27 | 3000 | 220V |
| | | VD2-010SA1H | 1.27 | 3000 | 220V |
| 80 | WD80M-07530S-D2F | VD2-014SA1G | 2.39 | 3000 | 220V |
| | | VD2-014SA1H | 2.39 | 3000 | 220V |
| 80 | WD80M-07530S-D2F-L | VD2-014SA1G | 2.39 | 3000 | 220V |
| | | VD2-014SA1H | 2.39 | 3000 | 220V |
| 80 | WD80M-10030S-D2F | VD2-014SA1G | 3.18 | 3000 | 220V |
| | | VD2-014SA1H | 3.18 | 3000 | 220V |
| 80 | WD80M-10030S-D2G | VD2-014SA1G | 3.18 | 3000 | 220V |
| | | VD2-014SA1H | 3.18 | 3000 | 220V |



SPECIFICATION

| Item | | VD2 Series | |
|----------------------|-----------------------|---|---|
| Basic Specifications | Voltage | 220V | |
| | 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-tuning 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) |
| | Pulse Input | 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 Frequency | Maximum 500khz |
| | | Pulse Type | Pulse + Direction, CCW/CW pulse, Quadraturel encoding |
| | | Pulse Filtering | First-order low-pass filter or smooth filter |
| | Speed Mode | Pulse Output | Differential Quadraturel encoding A, B, Z output; PPR is settable by p0-16 or P0-17~P0-20. |
| | | 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 Mode | Torque Limit | Support to set the torque limit |
| | | 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 |

60 Series Motor Specification

| Motor model | WD60M-02030S [★] △ | WD60M-04030S [★] △ |
|-----------------------|-----------------------------|-----------------------------|
| Rated power (kW) | 0.2 | 0.4 |
| Rated torque (N·m) | 0.64 | 1.27 |
| Rated speed (r/min) | 3000 | 3000 |
| Brake | Optional | Optional |
| LA without Brake (mm) | 75 | 92 |
| LA with Brake (mm) | 104.5 | 121.5 |

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

