

WD400

The Wolong Group is a leader in drive technology that helps industry, utility, and mobility and home appliance customers to increase their performance while lowering environmental impact. The Wolong Group has 61 subsidiaries around the world and employs 18,000 people.

Designed and developed by Wolong group, WD400 Series is a new generation of high-performance general-purpose vector AC drive, which supports regular AC asynchronous motors and multiple high-efficiency motor control algorithms. It can be perfectly integrated with Wolong's synchronous and asynchronous motors, tailored for higher energy efficiency. Compared with the last generation, WD400 boasts significant improvements for having reached the industry frontier in terms of speed control range, torque output accuracy, low-frequency characteristics, and other key performance indices. Coupled with Safe Torque Off (STO), WD400 ensures both personal and equipment safety. Also, it is available in overseas high-end scenarios for its compliance with CE, EAC, RoHS and other international certification standards.

Featuring excellent reliability, performance, extensibility, and ease of assembly, WD400 is rather user-friendly. It can be applied in blowers, water pumps, compressors, metallurgy, mining, petroleum and petrochemical, cement, power plants, material handling, HVAC, textiles, injection molding, marine industries as well as customized scenarios.

Supply Voltage	Single-Phase: 200 V ~ 240 V - 10% ~ 10% Three-Phase: 380 V ~ 480 V - 15% ~ 10% Three-Phase: 660 V ~ 690 V - 10% ~ 10%
Power Range	0.75-710 kW
Power Supply Frequency	50/60Hz ±5%
Motor Type	Three-Phase Induction Motor (IM); Permanent Magnet Synchronous Motor (PMSM);
Control Mode	V/F Control; Sensorless Vector Control (SVC); Field-Oriented Vector Control (FVC)
Speed Regulation Range	1 : 500
Steady Speed Accuracy	±0.5% (SVC) ±0.02% (FVC)
Torque Control Accuracy	±3% (SVC: Above 5 Hz) ±2% (FVC: Above 5 Hz)
Starting Torque	200%
Overload Capacity	150% of rated current for 60 seconds
Output Frequency	0-599Hz

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Analog Input	2 Channels: AI1 (0-10 V/0-20 mA/4-20 mA), AI2 (0-10 V/0-20 mA/4-20 mA)
Analog Output	2 Channels: AO1 (0-10 V/0-20 mA/4-20 mA), AO2 (0-10V/0-20mA/4-20 mA) Note: Models with Rack Size 5 and below are subject to 1-channel AO output.
Digital Input	7-Channel Programmable Digital Input (with a maximum input frequency of 1KHz and an internal Note: Models with Rack Size 5 and below are subject to 5-channel programmable digital input.
Digital Output	1-Channel Programmable Open-Collector Logic Output (with a maximum current of 1.2 mA when powered by internal supply and a maximum current of 200 mA when powered by external supply) 1-Channel High-Speed Pulse Output (with a maximum frequency of 100 kHz)
Relay Output	2-Channel Programmable Relay Output: TA1/NO1 Normally Open Contact; TB1/NC1 Normally Closed Contact; TC1/CM1 Common Terminal TB2/NO2 Normally Open Contact; TC2/CM2 Common Terminal Note: Models with Rack Size 5 and below are subject to 1-channel relay output.
Communication Interface	Modbus RTU Communication: A+/B-/485 G
Expansion Interface	2 Expansion Interfaces: EX-A (SLOT1) and EX-B (SLOT2) Options: I/O expansion modules, speed feedback encoder modules, communication modules, etc.

Product	Type	Note
Communication expansion card	WD-PN01A	Profinet card
	WD-DP01A	PROFIBUS-DP card
	WD-EN01A	EtherNet card (In development)
	WD-EC01A	EtherCAT card (In development)
PG Card	WD-CAN01A	CANopen card
	WD-PG01A	ABZ PG card
IO Expansion Card	WD-PG02A	Resolver PG card
	WD-IO01A	IO expansion card
Keyboard and Display	WD-OP01A	LED display keypad
	WD-OP03A	LCD display keypad



WD400 Series High-Performance General-Purpose AC Drive (0.75-710 kW)



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Pump units



Crane



Machine tooling



Hoisting



WD400
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WD400
Catalog



Paper making



Crusher



Agitator



Mine Belt Conveyor

