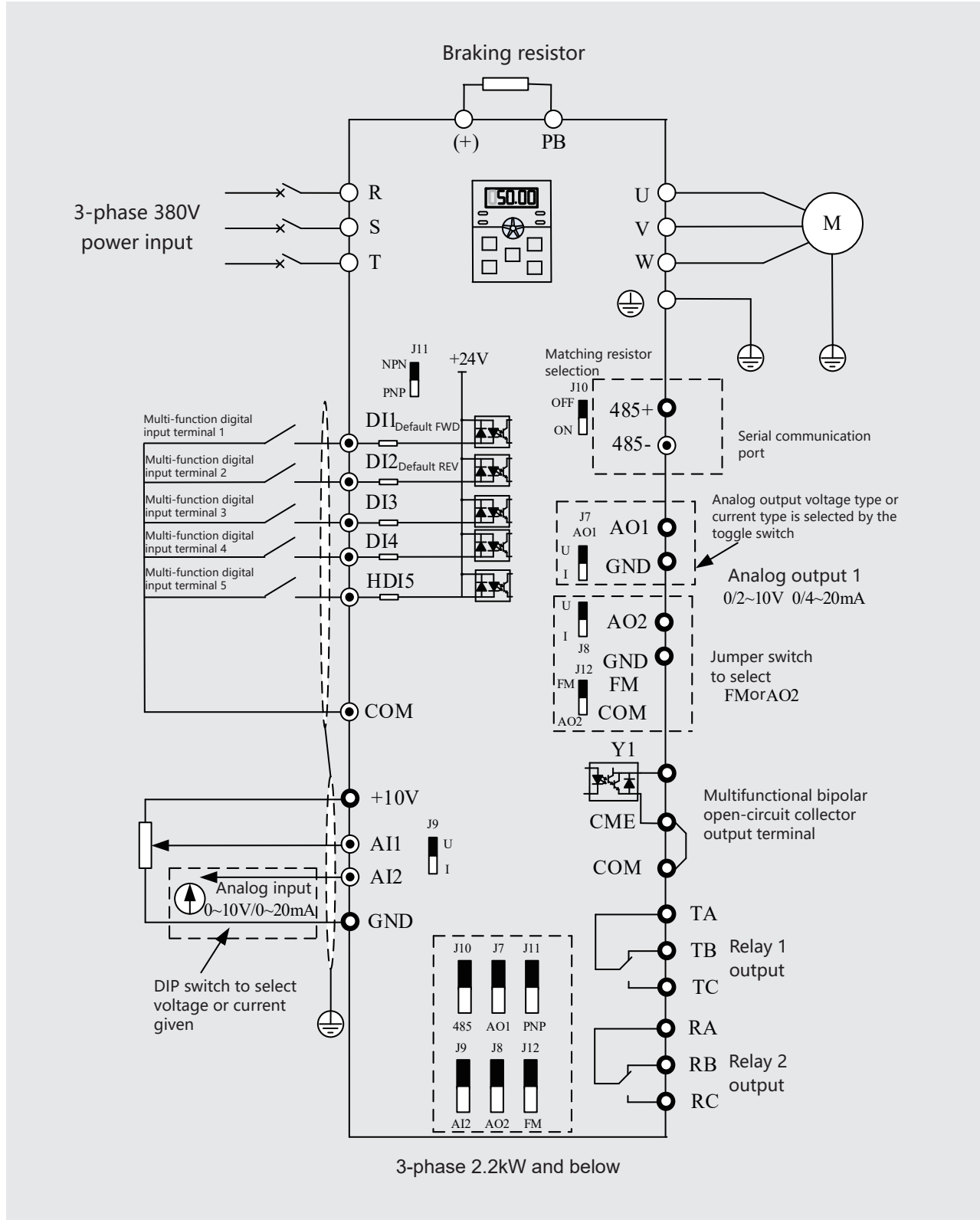


Wiring Diagram



GND	A01	485-	DI1	DI2	DI3	DI4	DI5	+24V	RA	RB	RC
+10V	AI1	AI2	485+	CME	COM	Y1	FM	COM	TA	TB	TC

Control Terminal Diagram (3-phase 220V/380V 2.2kW and below)



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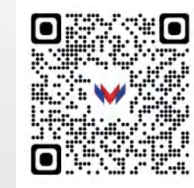
WANSHSIN is a professional leading gearmotor manufacturer in China and an intelligent automation complete solution provider, which focus on providing high-grade gearmotor, gearbox and controller(inverter) for the customers to over 50 countries worldwide.



Area	Employees	R&D Offices	Equipment	Certificates	Patents
120,000 sqm	800+	Japan\ShenZhen ChangSha	300+	CE\SGS ISO9001	80+

WANSHSIN SEIKOU (HUNAN) CO., LTD

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Tel. : +86-731-8422 1213
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Email : sales@wanshsin.com
SKYPE : +86 189 3245 8072



Wanshsin Website



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BROCHURE OF WANSHSIN INVERTER



Committed to building a world-class electromechanical brand

Product Series

WS600 High Performance Vector Control Inverter

- ◆ Power: 0.4-1000kW
- ◆ Voltage: 1-phase 110V/220V
3-phase 220V/380V/690V



CL200 Four-quadrant Inverter

- ◆ Power: 18.5-315kW
- ◆ Voltage: 3-phase 380V
- ◆ Feeding energy back to the grid

WBR600 Universal Energy Consumption Brake Unit

- ◆ Votage / Power range:
3-phase 380V, 37kW-630kW
3-phase 690V, 37kW-800kW



WS Series Servo Motor & Servo Drive

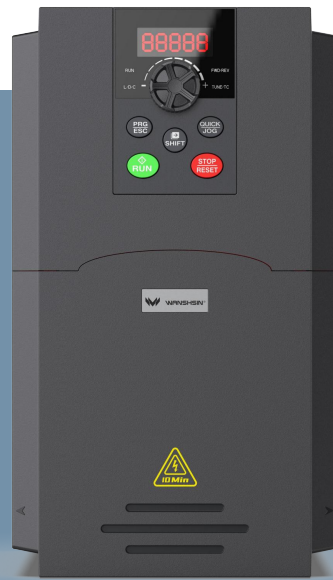
- ◆ Power: 100/200/400/750kW
- ◆ Voltage: AC220V
- ◆ Rated speed: 3000rpm

CE Construction Lift Drive

- ◆ CE100 VFD for cargo construction elevator
- ◆ CE200 VFD for dual purpose construction elevator



WS600 High Performance Vector Control Inverter



WS600 series drive is a general-purpose vector control inverter with excellent performance, reliability and stability, compact structure and ease of use. It can be used to drive asynchronous motor, synchronous motor and torque motor. It is widely used in Fans and Pumps, CNC Machine Tools, Cables, Papermaking, Hoisting, Lifting, Petrochemicals, Air Compressors, Textile Machinery, Plastic Machinery, Woodworking Machinery, Ceramic Machinery, Stone Machinery and other industries.

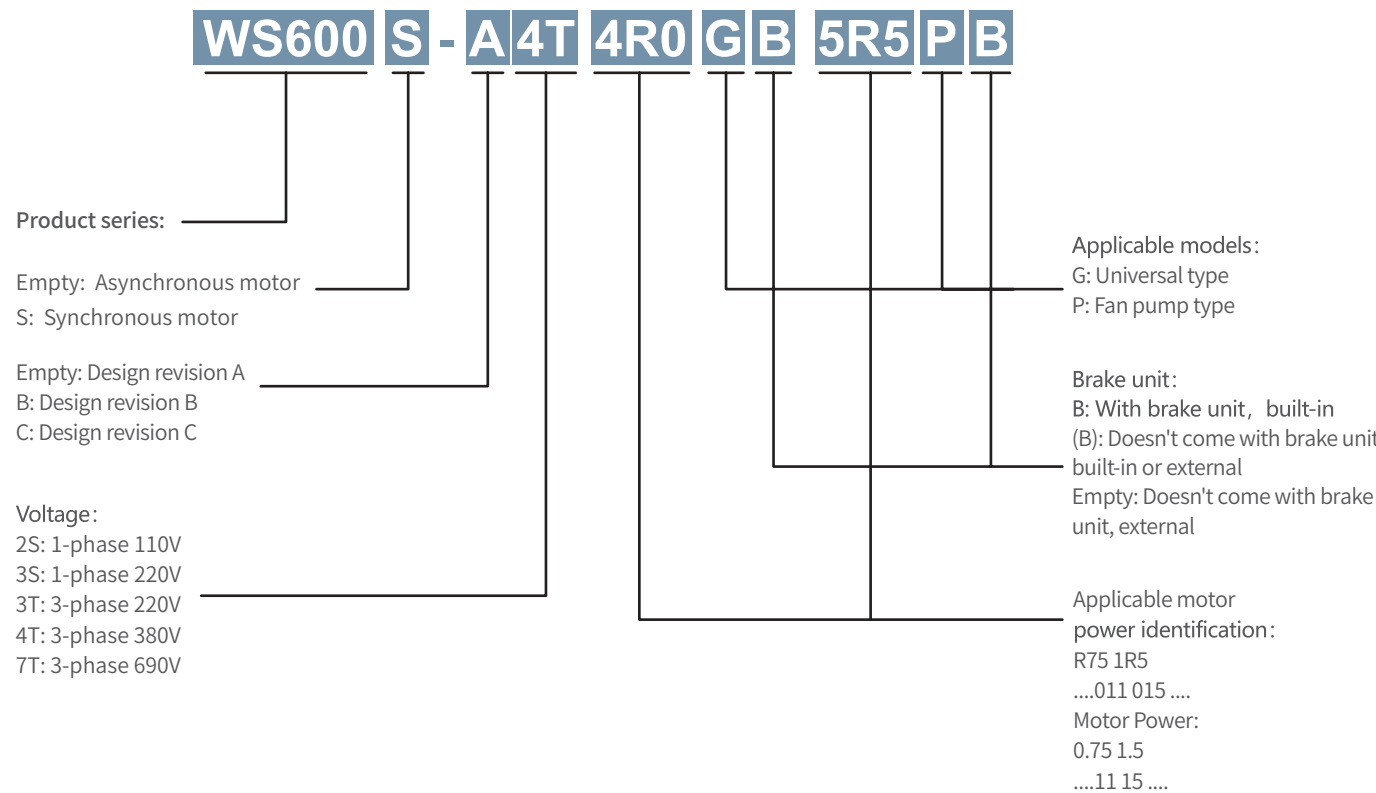
Features

- ◆ IGBT module for all models;
- ◆ Optional STO (Safe Torque Off) function;
- ◆ Built-in MODBUS RS485;
- ◆ Built-in brake unit for 22kW and below;
- ◆ Integrated PID function supports most of water supply applications;
- ◆ Integrated simple PLC supports max 16-steps speed control;
- ◆ Programmable DI/DO/AI/AO;
- ◆ Support LCD keypad, multi-language menu (optional);
- ◆ Detachable keyboard, external keyboard, convenient for customer debugging;
- ◆ PC software, one-key setting, keypad parameter copy, saving customer debugging time;
- ◆ The PCB adopts 100-130um thickened UV glue automatic spraying process, which has stronger anti-corrosion, moisture-proof and dust-proof capabilities.
- ◆ Installation back mounting system can insert the inverter directly into the rack;
- ◆ Independent air duct design prevents dust from contacting the circuit board, better heat dissipation performance;
- ◆ The whole series is equipped with a metal backboard as standard, which provides stronger protection than the plastic backboard.

Technical Details

Input Voltage	187-264V single phase & three phase, 323-456V three phase , 660-690V three phase
Output Frequency	0~1200Hz V/F, 0~600HZ FVC
Control Technology	V/F, SVC, FVC
Starting Torque	0.5 Hz 180% (SVC), 0 Hz 150% (FVC)
Overload capability	150%@rated current 60S, 180%@rated current 10S, 200%@rated current 1S
Input Terminals	5 Digital inputs, max. 10 Digital inputs support both NPN & PNP, 2 Analog inputs
Communication	MODBUS RS485, Profitnet, Profitbus, CANopen, Ethercat
Other Expansions	I/O1, I/O2, PG1, PG3, PG6, LCD
Protective function	Phase loss protection, overcurrent protection, overvoltage/undervoltage protection, overheating protection, overload protection, etc.

Type designation



WS600 Types And Ratings

VFD model	Input voltage (V)	Input current (A)	Output current (A)	Power of Adaptable Motor (kW)
WS600-3SR40G	1-phase 220V Range: -15% ~ 20%	5.4	2.3	0.4
WS600-3SR75G		8.2	4.0	0.75
WS600-3S1R5G		14.0	7.0	1.5
WS600-3S2R2GB		23.0	9.6	2.2
WS600-3S4R0GB		40.0	17	4.0
WS600-3S5R5GB		60.0	25	5.5
WS600-3TR40GB	3-phase 220V Range: -15%~ 20%	2.7	2.3	0.4
WS600-3TR75GB		4.2	4.0	0.75
WS600-3T1R5GB		7.7	7.0	1.5
WS600-3T2R2GB		12.0	9.6	2.2
WS600-3T4R0GB		19.0	17.0	4.0
WS600-3T5R5GB		28.0	25.0	5.5
WS600-3T7R5GB		35.0	32.0	7.5
WS600-3T011GB		47.0	45.0	11.0
WS600-3T015G		65.0	60.0	15.0
WS600-3T018G		80.0	75.0	18.0
WS600-3T022G		97.0	90.0	22.0
WS600-3T030G		115.0	110.0	30.0
WS600-3T037G		166.0	152.0	37.0
WS600-3T045G		190.0	176.0	45.0
WS600-3T055G		214.0	210.0	55.0
WS600-3T075G		256.0	253.0	75.0
WS600-3T093G		389.0	380.0	93.0
WS600-3T110G		435.0	426.0	110.0
WS600-3T132G		539.0	530.0	132.0
WS600-3T160G		608.0	600.0	160.0
WS600-3T200G		680.0	660.0	200.0
WS600-3T220G		740.0	720.0	220.0

VFD model	Input voltage (V)	Input current (A)	Output current (A)	Power of Adaptable Motor (kW)
WS600-4TR75GB	3-phase 380V Range: -15%~ 20%	3.4	2.1	0.75
WS600-4T1R5GB/2R2PB		5.0/5.8	3.8/5.1	1.5/2.2
WS600-4T2R2GB/4R0PB		5.8/10.5	5.1/9.0	2.2/4.0
WS600-4T4R0GB/5R5PB		10.5/14.6	9.0/13.0	4.0/5.5
WS600-4T5R5GB/7R5PB		14.6/20.5	13.0/17.0	5.5/7.5
WS600-4T7R5GB/9R0PB		20.5/22.0	17.0/20.0	7.5/9.0
WS600-4T9R0GB/011PB		22.0/26.0	20.0/25.0	9.0/11.0
WS600-4T011GB/015PB		26.0/35.0	25.0/32.0	11.0/15.0
WS600-4T015GB/018PB		35.0/38.5	32.0/37.0	15.0/18.5
WS600-4T018GB/022PB		38.5/46.5	37.0/45.0	18.5/22.0
WS600-4T022GB/030PB		46.5/62.0	45.0/60.0	22.0/30.0
WS600-4T030G(B)/037P(B)		62.0/76.0	60.0/75.0	30.0/37.0
WS600-4T037G(B)/045P(B)		76.0/92.0	75.0/90.0	37.0/45.0
WS600-4T045G(B)/055P(B)		92.0/113.0	90.0/110.0	45.0/55.0
WS600-4T055G(B)/075P(B)		113.0/157.0	110.0/152.0	55.0/75.0
WS600-4T075G(B)/093P(B)		157.0/180.0	152.0/176.0	75.0/93.0
WS600-4T093G(B)/110P(B)		180.0/214.0	176.0/210.0	93.0/110.0
WS600-4T110G/132P		214.0/256.0	210.0/253.0	110.0/132.0
WS600-4T132G/160P		256.0/307.0	253.0/304.0	132.0/160.0
WS600-4T160G/185P		307.0/345.0	304.0/340.0	160.0/185.0
WS600-4T185G/200P		345.0/385.0	340.0/380.0	185.0/200.0
WS600-4T200G/220P		385.0/430.0	380.0/426.0	200.0/220.0
WS600-4T220G/250P		430.0/468.0	426.0/465.0	220.0/250.0
WS600-4T250G/280P		468.0/525.0	465.0/520.0	250.0/280.0
WS600-4T280G/315P		525.0/590.0	520.0/585.0	280.0/315.0
WS600-4T315G/355P		590.0/665.0	585.0/650.0	315.0/355.0
WS600-4T355G/400P		665.0/785.0	650.0/725.0	355.0/400.0
WS600-4T400G/450P		785.0/883.0	725.0/820.0	400.0/450.0
WS600-4T450G/500P		883.0/920.0	820.0/900.0	450.0/500.0
WS600-4T500G/550P		920.0/1020.0	900.0/1000.0	500.0/550.0
WS600-4T550G/630P		1020.0/1120.0	1000.0/1100.0	550.0/630.0
WS600-4T630G		1120.0	1100.0	630.0
WS600-4T710G		1315.0	1250	710.0
WS600-4T800G		1525.0	1450	800.0