ATSEL -FD600M

High Performance Mini AC Drives
1HP/0.75KW to 20HP/15KW

SELEC®
Creating Best Value



Specifications

Input & Output

Input voltage	1AC 220~240V(± 15%) 3AC 380V~440V
Input frequency	50Hz/60Hz ±5%
Output voltage	0~input voltage, deviation <±3%
Output frequency	0~600Hz

Control Characteristics

Control mode	v/f control Sensor-less vector control Torque control
Speed accuracy	±0.5% (V/f) ±0.2% (SVC)
Speed fluctuation	±0.3% (SVC)
torque response	< 10ms (SVC)
Starting torque	0.5Hz: 150% (V/f) 0.25Hz: 180% (SVC)
Overload capability	150% Rated current -60s 180% Rated current -10s 200% Rated current -1s
Simple PLC Multi-step speed	16 speed External digital signal control Internal clock
PID function	Standard build-in
Communication	Modbus

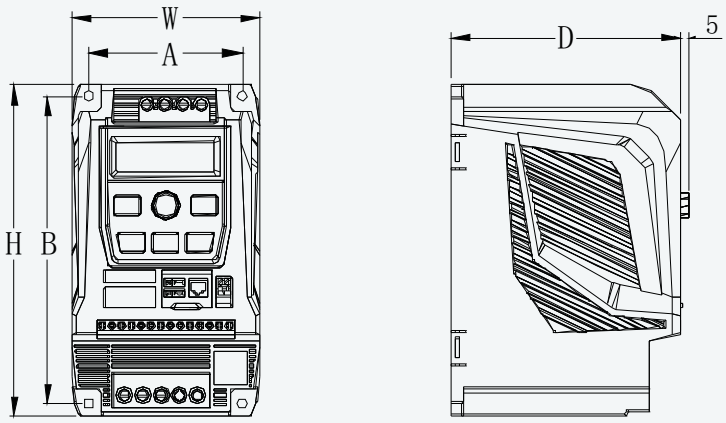
Featured functions

Featured functions	Input &Output delay Flexible parameters display AVR (Automatic Voltage Regulation) Timing control, fixed length control, etc. Simple PLC, 16-steps speed control Torque control build-in S curve acceleration/deceleration Multi-functional programmable keypad V/f separated control

Environment Limitation

Installation location	Without direct sunlight,free from dust,corrosive gases, oil mist, flammable gases, water vapor, water drop and salt,etc.
Altitude	0~2000m Derated 1% for every 1000m when the altitude is above 1000meters
Ambient temperature	-10°C~50°C (Output derated while the temperature is higher than 40°C)
Storage temperature	-20°C~+70°C
Relative Humidity	5-95% no condensation

Dimensions



AC Drive Model	Rated Power (HP)	Rated Input Current(A)	Rated Output Current(A)	A (mm)	B (mm)	H (mm)	W (mm)	D (mm)	d (mm)
Input voltage: single-phase 230V Range：-15%~20%									
FD600M-1-010-CB	1	8.2	4	66	136	149	83	111	5
FD600M-1-020-CB	2	14	7						
FD600M-1-030-CB	3	23	9.6	80	157	170	98	124	5
FD600M-1-050-CB	5	40	17						
Input voltage: three-phase 380V~440V									
FD600M-3-010-CB	1	3.4/5.0	2.1/	66	136	149	83	111	5
FD600M-3-020-CB	2	5.0/5.8	3.8/5.1						
FD600M-3-030-CB	3	5.8/10.5	5.1/9.0						
FD600M-3-050-CB	5	10.5/14.6	9.0/13.0	80	157	170	98	124	5
FD600M-3-075-CB	7.5	14.6/20.5	13.0/17.0						
FD600M-3-100-CB	10	20.5/26.0	17.0/25.0						
FD600M-3-150-CB	15	26.0/35.0	25.0/32.0	112	200	228	135	160	5
FD600M-3-200-CB	20	35.0/38.0	32.0/37.0						

Terminal instructions

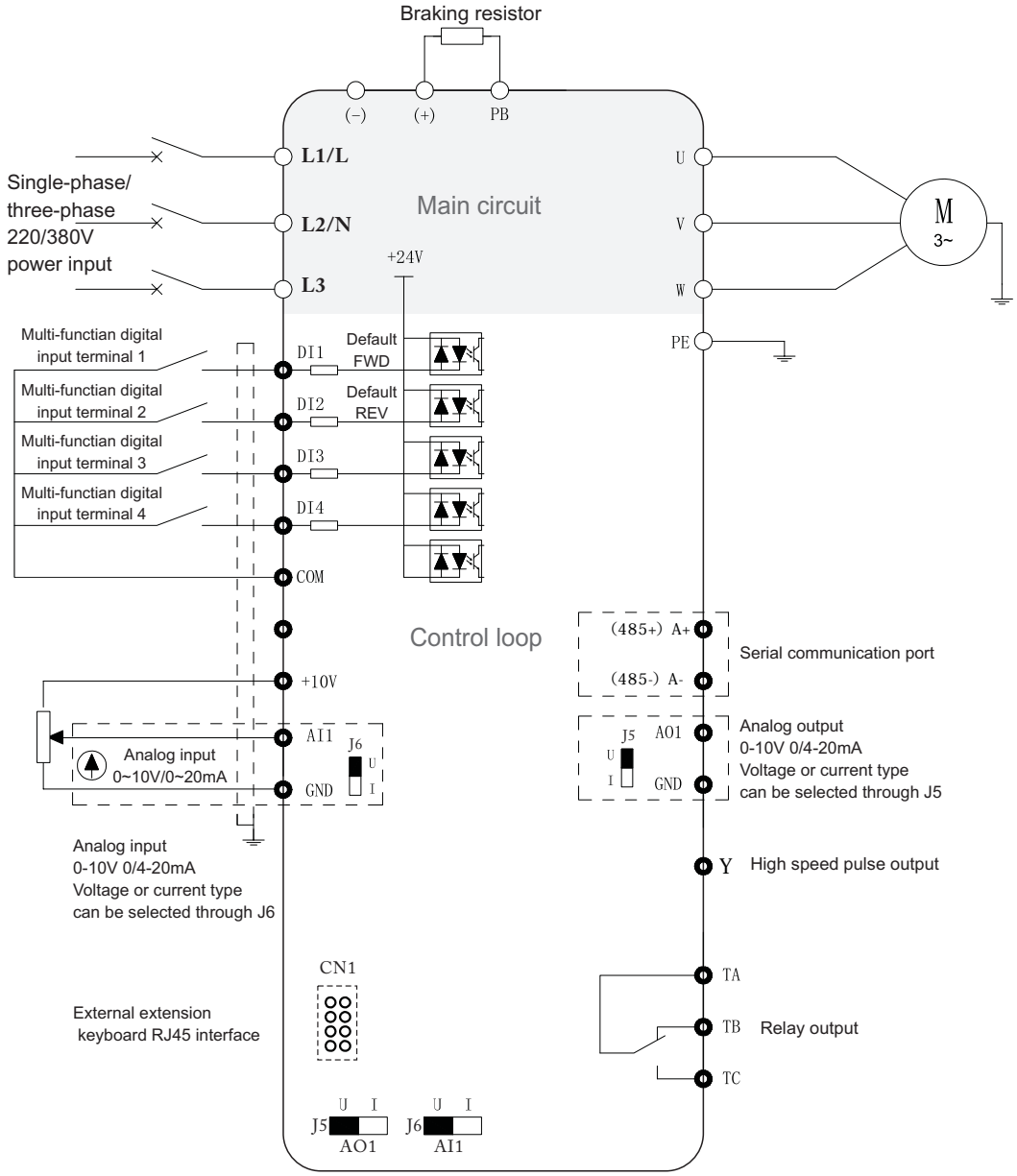


A+	B-

TA	TB	TC	24V	COM	D1	D2	D3	D4	Y	GND	10V	AI	AO

Terminal	Name	Function description
U、V、W	Inverter output terminal	Connect three phase motor
+、BR	Braking resistor connection terminal	Connect the braking resistor

Standard Wiring Diagram for FD600M



Ordering information

Model	Description	HSN Code	Output Current(A)	DC Input	Dimensions (mm) H*W*d	Gross Weight(kg)
FD600M-1-010-CB	1 phase input 230V, 3 phase output 0~230V 1HP/0./75KW,Built in EMC Filter	85030090	4.0	180V~450V	149*83*111	0.9
FD600M-1-020-CB	1 phase input 230V, 3 phase output 0~230V 2HP/1.5KW, Built in EMC Filter	85030090	7.0	180V~450V	149*83*111	0.9
FD600M-1-030-CB	1 phase input 230V ,3 phase output 0~230V 3HP/2.2KW, Built in EMC Filter	85030090	9.6	180V~450V	170*98*124	0.9
FD600M-1-050-CB	1 phase input 230V ,3 phase output 0~230V 3HP/4.0KW, Built in EMC Filter	85030090	17.0	180V~450V	170*98*124	1.3
FD600M-3-010-CB	3 phase input 415V 3 phase output 0~415V 1HP/0.7KW, Built in EMC Filter	85030090	2.1/3.8	350V~800V	149*83*111	0.9
FD600M-3-020-CB	3 phase input 415V 3 phase output 0~415V 2HP/1.5KW, Built in EMC Filter	85030090	3.8/5.1	350V~800V	149*83*111	0.9
FD600M-3-030-CB	3 phase input 415V 3 phase output 0~415V 3HP/2.2KW, Built in EMC Filter	85030090	5.1/9.0	350V~800V	149*83*111	0.9
FD600M-3-050-CB	3 phase input 415V 3 phase output 0~Input, 5HP/4.0KW. Built in EMC Filter	85030090	9.0/13.0	350V~800V	170*98*124	1.3
FD600M-3-075-CB	3 phase input 415V 3 phase output 0~Input, 7.5HP/5.5KW. Built in EMC Filter	85030090	13.0/17.0	350V~800V	170*98*124	1.3
FD600M-3-100-CB	3 phase input 415V 3 phase output 0~Input, 10HP/7.5KW. Built in EMC Filter	85030090	17.0/25.0	350V~800V	170*98*124	1.3
FD600M-3-150-CB	3 phase input 415V 3 phase output 0~Input, 15HP/11KW. Built in EMC Filter	85030090	25.0/32.0	350V~800V	228*135*160	2.8
FD600M-3-200-CB	3 phase input 415V 3 phase output 0~Input, 20HP/15KW. Built in EMC Filter	85030090	32.0/37.0	350V~800V	228*135*160	2.8

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