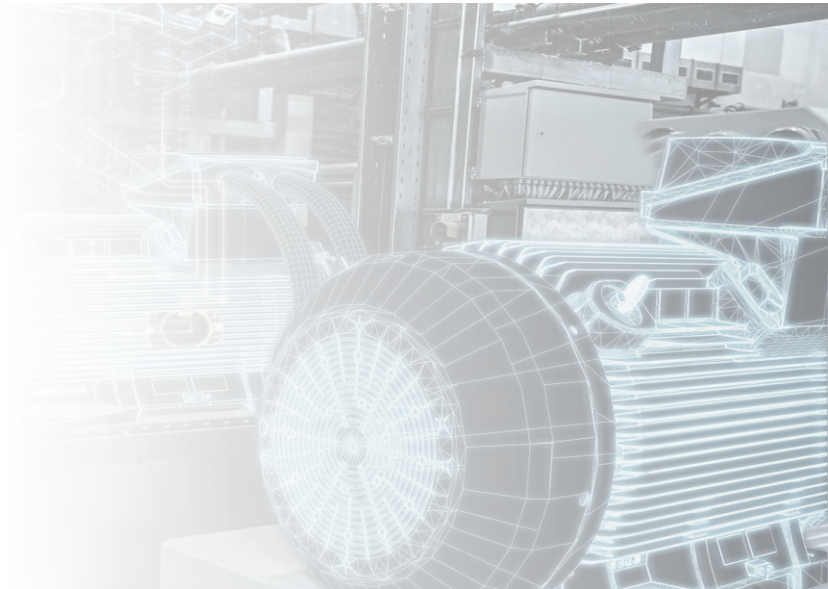


ATSEL - FD200

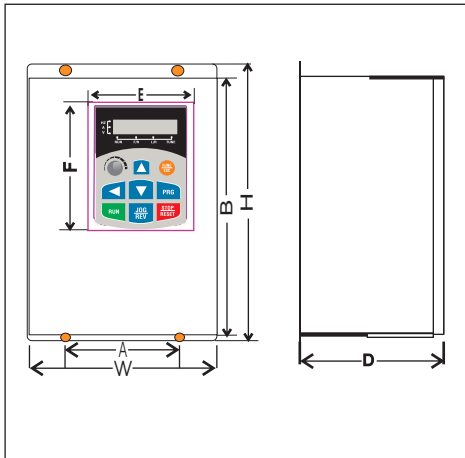
Compact & Powerful AC Drives
1HP 0.75KW to 650HP 500KW

SELEC[®]
Creating Best Value



Technical Specifications

Power supply	Rated input voltage/ frequency	3 phase 415V 50Hz/60 Hz.
	Permissible voltage fluctuation	320 to 460V for 3 Phase
	Permissible frequency fluctuation	±5%
Control characteristic	Control mode	Space Vector SVPWM and Flux Vector Control
	Frequency Control range	0.1 ~ 400 Hz.
	Frequency accuracy	Digital setting 0.01%, Analog instruction 0.1%(Max frequency)
	Frequency resolution	Digital instruction 0.1Hz, Analog instruction 0.1Hz.
	Accelerated / decelerated time	0.0 ~3600s, four accelerate/decelerated time settings available
	Multi Speed running	Build-in program
	Build-in PI	Easy to consist a simple automatic control system
	Build-in counter	Automatically controlled Production line can be achieved
	Overload capacity	G Type - 150% rated current for 1 min. P type - 120% rated current for 1 min
	Braking torque	About 20% (with brake resistor is about 150%)
	V/F mode	3 preset V/F mode and V/F program
	Automatic Energy saving operation	Changes the V/F curve according to the load to save energy
	Automatic Voltage Regulation	Regulates the voltage automatically when there is change in grid voltage
Operation function	Operation Commands	Keypad and External terminals
	Frequency Setting	Digital setting, Analog Voltage setting, Analog Current setting
	Input signal	Forward/Reverse, Jogging selection, Multi Speed Control, Regular Stopping
	Output signal	Fault Alarm Output (250V/2A Contact), Open Collector Output
Protection functions		Over Current, Over Voltage, Under Voltage, Over heat, Overload, Phase loss
Display		Parameters setting, Running status and fault display
Operating conditions	Operating environment	Temperature:10 ~ 40 Degree C, Humidity: < 90%, No condensation, IP20
	Operations area	Indoor, <1000m altitude above sea level
	Storage Temperature	-20 ~ +60 Degree C
	Vibration	<5.9 m/s ² (0.6g)



Product Code	Mounting Dimension		Dimension			Pore Diameter (mm)	Weight (kg)
	A (mm)	B (mm)	H (mm)	W (mm)	D (mm)		
FD200-3-020-C-CE	107	175	185	118	167	φ4.5	1.9
FD200-3-030-C-CE							
FD200-3-050-C-CE							
FD200-3-075-C-CE	148	235	247	160	190	φ5.5	3.6
FD200-3-100-C-CE							3.75
FD200-3-150-C-CE	205	305	320	220	205	φ5.5	7.5
FD200-3-200-C-CE							
FD200-3-250-C-CE	180	416	432	255	234.5	φ7.5	15.2
FD200-3-300-C-CE							15.6
FD200-3-400-C-CE							15.9
FD200-3-500-C-CE	244	537	550	300	264	φ7	31

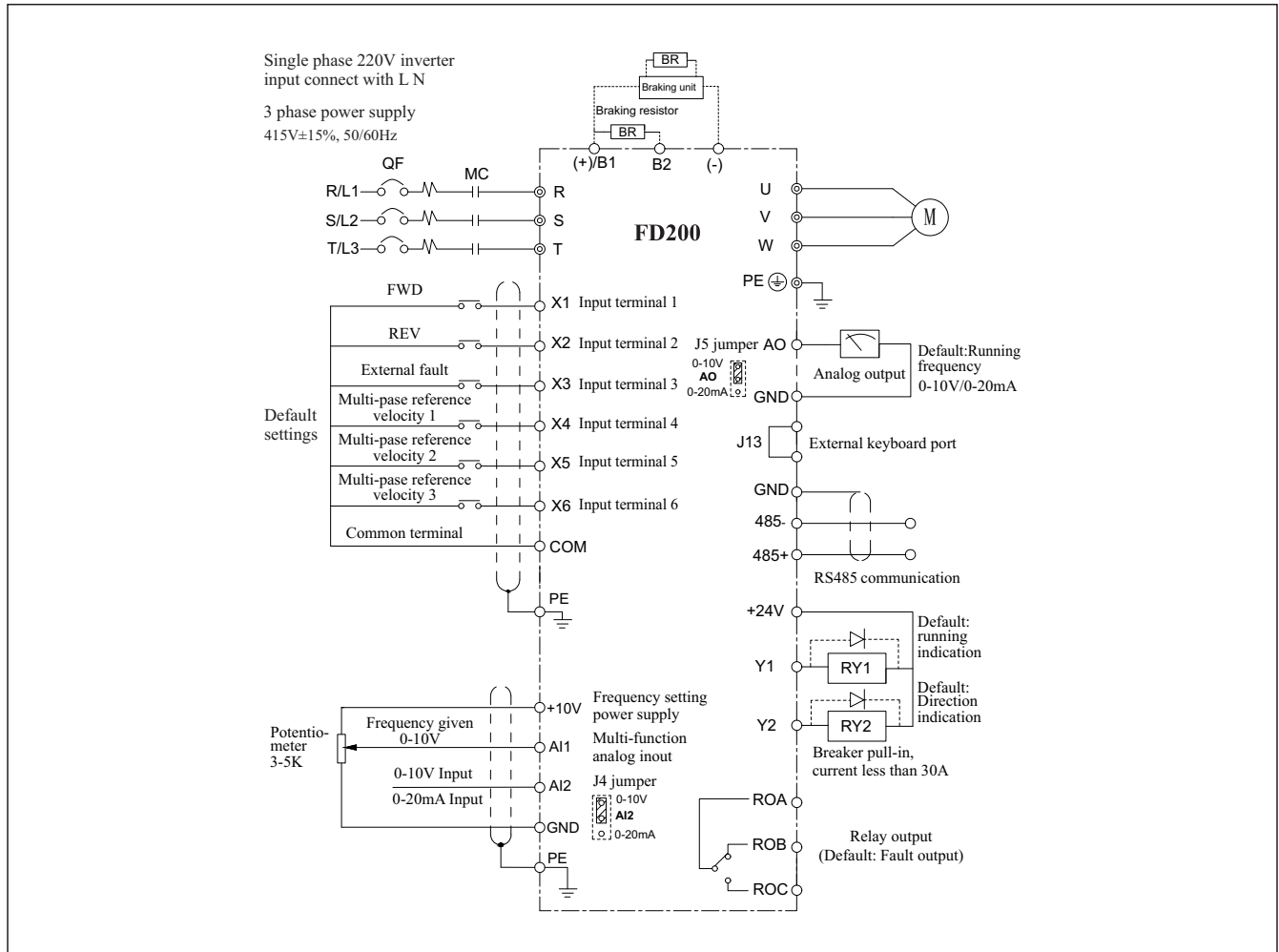
FD200 - 7.5HP-100HP Keyboard tap installation hole size : E=85mm ; F=115mm long.

FD200 control loop terminal instruction

Class	Sign	Terminal Name	Terminal instruction and factory reset
Multi-functional Inputs	X1	Multifunction input terminal 1	Default: Forward Rotate/Stop
	X2	Multifunction input terminal 2	Default: Reserve Rotate/Stop
	X3	Multifunction input terminal 3	Default: External fault Input
	X4	Multifunction input terminal 4	Default: Multi-Step & Speed Mode 1
	X5	Multifunction input terminal 5	Default: Multi-Step & Speed Mode 2
	X6	Multifunction input terminal 6	Default: Multi-Step & Speed Mode 3
	COM	Common Terminal	Multi-functional input common terminal +24V Power reference ground
Analog Input	AI1	Analog input 1	0~10V input
	AI2	Analog input 2	0~10V input / 0~20mA input (J4 switch for selection)
	+10V	Analog Preset Power Source	10V DC 10mA (potentiometer 3~5KΩ)
	GND	Analog ground for reference	Analog input, Output reference ground
Multi-functional Output	Y1	Multifunction Output terminal 1	Default: Running Status
	Y2	Multifunction Output terminal 2	Default: Running Direction
	ROA	Relay output	Default: Fault Output
	ROB	ROA - ROB Normally Closed	
	ROC	ROA - ROC Normally Open	
Analog Output	AO	Analog output terminal	0~10V or 0~20mA output (J5 switch for selection) GND as reference ground
Analog Output	+24V	+24V power supply	+24VDC 100mA. COM is power from ground
Communication	485+	RS485 Positive terminal	RS485 Communication with Modbus Protocol
	485-	RS485 Negative terminal	



3-2-2 Standard wiring diagram for FD200



Ordering Information

Product Code	Description	Output Current	Certification
FD200-3-020-C-CE	3 Phase 415V, 2HP 1.5 KW	3.7A	CE
FD200-3-030-C-CE	3 Phase 415V, 3HP 2.2 KW	5.1A	CE
FD200-3-050-C-CE	3 Phase 415V, 5HP 3.75 KW	9A / 13A	CE
FD200-3-075-C-CE	3 Phase 415V, 7.5HP 5.5 KW	13A / 17A	CE
FD200-3-100-C-CE	3 Phase 415V, 10HP 7.5 KW	17A / 25A	CE
FD200-3-150-C-CE	3 Phase 415V, 15HP 11 KW	25A / 32A	CE
FD200-3-200-C-CE	3 Phase 415V, 20HP 15 KW	32A / 38A	CE
FD200-3-250-C-CE	3 Phase 415V, 25HP 18.5 KW	38A / 45A	CE
FD200-3-300-C-CE	3 Phase 415V, 30HP 22.4 KW	45A / 60A	CE
FD200-3-400-C-CE	3 Phase 415V, 40HP 30 KW	60A / 75A	CE
FD200-3-500-C-CE	3 Phase 415V, 50HP 37.5 KW	75A / 90A	CE
AC-FD200-0-1-1	Extension cable & mounting bracket	---	---

Applications : Suitable for fans, Pumps, Conveyor, Mixer, Textile machine, Dyeing machine, Lithographic printing machine
Metal working machine, Injection molding machine, Corrugated paper machine etc.

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