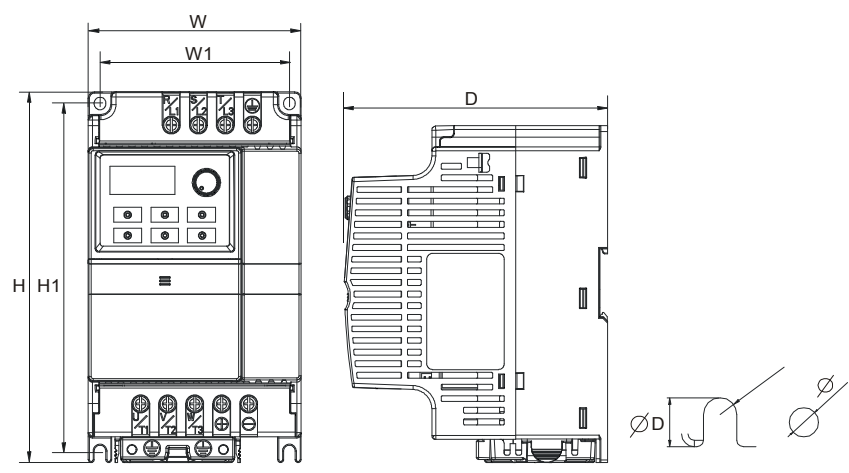


Voltage Class		115V Class		
Output Rating	Model Number VFD-XXXEL	002	004	007
	Max. Applicable Motor Output (kW)	0.2	0.4	0.75
	Max. Applicable Motor Output (hp)	0.25	0.5	1.0
	Rated Output Capacity (kVA)	0.6	1.0	1.6
	Rated Output Current (A)	1.6	2.5	4.2
Input Rating	Maximum Output Voltage (V)	3-Phase Proportional to Twice the Input Voltage		
	Output Frequency (Hz)	0.1~600 Hz		
	Carrier Frequency (kHz)	2-12		
	Rated Input Current (A)	6.4	9	18
	Rated Voltage/Frequency	Single phase, 100-120V, 50/60Hz		
	Voltage Tolerance	± 10%(90~132 V)		
	Frequency Tolerance	± 5%(47~63 Hz)		
	Cooling Method	Natural Cooling		
Weight (kg)		1.1	1.1	1.4

Voltage Class		230V Class					
Output Rating	Model Number VFD-XXXEL	002	004	007	015	022	037
	Max. Applicable Motor Output (kW)	0.2	0.4	0.75	1.5	2.2	3.7
	Max. Applicable Motor Output (hp)	0.25	0.5	1.0	2.0	3.0	5.0
	Rated Output Capacity (kVA)	0.6	1.0	1.6	2.9	4.2	6.5
	Rated Output Current (A)	1.6	2.5	4.2	7.5	11.0	17
Input Rating	Maximum Output Voltage (V)	3-Phase Proportional to Input Voltage					
	Output Frequency (Hz)	0.1~600 Hz					
	Carrier Frequency (kHz)	2-12					
	XXXEL 21A	Rated Input Current (A)	4.9	6.5	9.5	15.7	24
		Rated Voltage/Frequency	1-phase, 200-240 V, 50/60Hz				
	XXXEL 23A	Rated Input Current (A)	1.9	2.7	4.9	9	15
		Rated Voltage/Frequency	3-phase, 200-240V, 50/60Hz				
	Voltage Tolerance		± 10%(180~264 V)				
	Frequency Tolerance		± 5%(47~63 Hz)				
	Cooling Method		Natural Cooling		Fan Cooling		
Weight (kg)		1.2	1.2	1.2	1.7	1.7	1.7

Voltage Class		460V Class				
Output Rating	Model Number VFD-XXXEL	004	007	015	022	037
	Max. Applicable Motor Output (kW)	0.4	0.75	1.5	2.2	3.7
	Max. Applicable Motor Output (hp)	0.5	1.0	2.0	3.0	5.0
	Rated Output Capacity (kVA)	1.2	2.0	3.3	4.4	6.8
	Rated Output Current (A)	1.5	2.5	4.2	5.5	8.2
Input Rating	Maximum Output Voltage (V)	3-Phase Proportional to Input Voltage				
	Output Frequency (Hz)	0.1~600 Hz				
	Carrier Frequency (kHz)	2-12				
	Rated Input Current (A)	1.8	3.2	4.3	7.1	9.0
	Rated Voltage/Frequency	3-phase, 380-480V, 50/60Hz				
	Voltage Tolerance	± 10%(342~528V)				
	Frequency Tolerance	± 5%(47~63Hz)				
Cooling Method		Natural Cooling		Fan Cooling		
Weight (kg)		1.2	1.2	1.2	1.7	1.7

General Specifications		
Control Characteristics	Control System	SPWM(Sinusoidal Pulse Width Modulation) control (V/f control)
	Frequency Setting Resolution	0.01Hz
	Output Frequency Resolution	0.01Hz
	Torque Characteristics	Including the auto-torque/auto-slip compensation; starting torque can be 150% at 5.0Hz
	Overload Endurance	150% of rated current for 1 minute
	Skip Frequency	Three zones, setting range 0.1-600Hz
	Accel/Decel Time	0.1 to 600 seconds (2 Independent settings for Accel/Decel time)
	Stall Prevention Level	Setting 20 to 250% of rated current
	DC Brake	Operation frequency 0.1-600.0Hz, output 0-100% rated current Start time 0-60 seconds, stop time 0-60 seconds
	Regenerated Brake Torque	Approx. 20% (up to 125% possible with optional brake resistor or externally mounted brake unit, 1-15hp (0.75-11kW) models have brake chopper built-in)
	V/f Pattern	Adjustable V/f pattern
Operating Characteristics	Frequency Setting	Keypad Setting by
		External Signal Potentiometer-5k Ω /0.5W, 0 to +10VDC, 4 to 20mA, RS-485 interface; Multi-function Inputs 3 to 6 (15 steps, Jog, up/down)
	Operation Setting Signal	Keypad Set by RUN and STOP
		External Signal 2 wires/3 wires ((MI1, MI2, MI3)), JOG operation, RS-485 serial interface (MODBUS), programmable logic controller
	Multi-function Input Signal Multi-step selection 0 to 15, Jog, accel/decel inhibit, 2 accel/decel switches, counter, external Base Block, ACI/AVI selections, driver reset, UP/DOWN key settings, NPN/PNP input selection	
	Multi-function Output Indication AC drive operating, frequency attained, zero speed, Base Block, fault indication, overheat alarm, emergency stop and status selections of input terminals	
Analog Output Signal		Output frequency/current
Operation Functions		AVR, accel/decel S-Curve, over-voltage/over-current stall prevention, 5 fault records, reverse inhibition, momentary power loss restart, DC brake, auto torque/slip compensation, auto tuning, adjustable carrier frequency, output frequency limits, parameter lock/reset, PID control, external counter, MODBUS communication, abnormal reset, abnormal re-start, power-saving, fan control, sleep/wake frequency, 1st/2nd frequency source selections, 1st/2nd frequency source combination, NPN/PNP selection
Protection Functions		Over voltage, over current, under voltage, external fault, overload, ground fault, overheating, electronic thermal, IGBT short circuit, PTC
Display Keypad (optional)		6-key, 7-segment LED with 4-digit, 4 status LEDs, master frequency, output frequency, output current, custom units, parameter values for setup and lock, faults, RUN, STOP, RESET, FWD/REV
Built-in EMI Filter		For 230V 1-phase and 460V 3-phase models.
Environmental Conditions	Enclosure Rating	IP20
	Pollution Degree	2
	Installation Location	Altitude 1,000 m or lower, keep from corrosive gasses, liquid and dust
	Ambient Temperature	-10°C to 50°C (40°C for side-by-side mounting) Non-Condensing and not frozen
	Storage/ Transportation Temperature	-20 °C to 60 °C
	Ambient Humidity	Below 90% RH (non-condensing)
Vibration		9.80665m/s ² (1G) less than 20Hz, 5.88m/s ² (0.6G) at 20 to 50Hz
Approvals		



Frame	W	W1	H	H1	D	Ø	ØD
A	72.0[2.83]	59.0[2.32]	174.0[6.86]	151.6[5.97]	136.0[5.36]	5.4[0.21]	2.7[0.11]
B	100.0[3.94]	89.0[3.50]	174.0[6.86]	162.9[6.42]	136.0[5.36]	5.4[0.21]	2.7[0.11]

Frame A: VFD002EL11A/21A/23A, VFD004EL11A/21A/23A/43A, VFD007EL21A/23A/43A, VFD015EL23A/43A
Frame B: VFD007EL11A, VFD015EL21A, VFD022EL21A/23A/43A, VFD037EL23A/43A

Figure 1 for models of VFD-EL Series

VFD002EL11A/21A, VFD004EL11A/21A, VFD007EL11A/21A, VFD015EL21A, VFD022EL21A

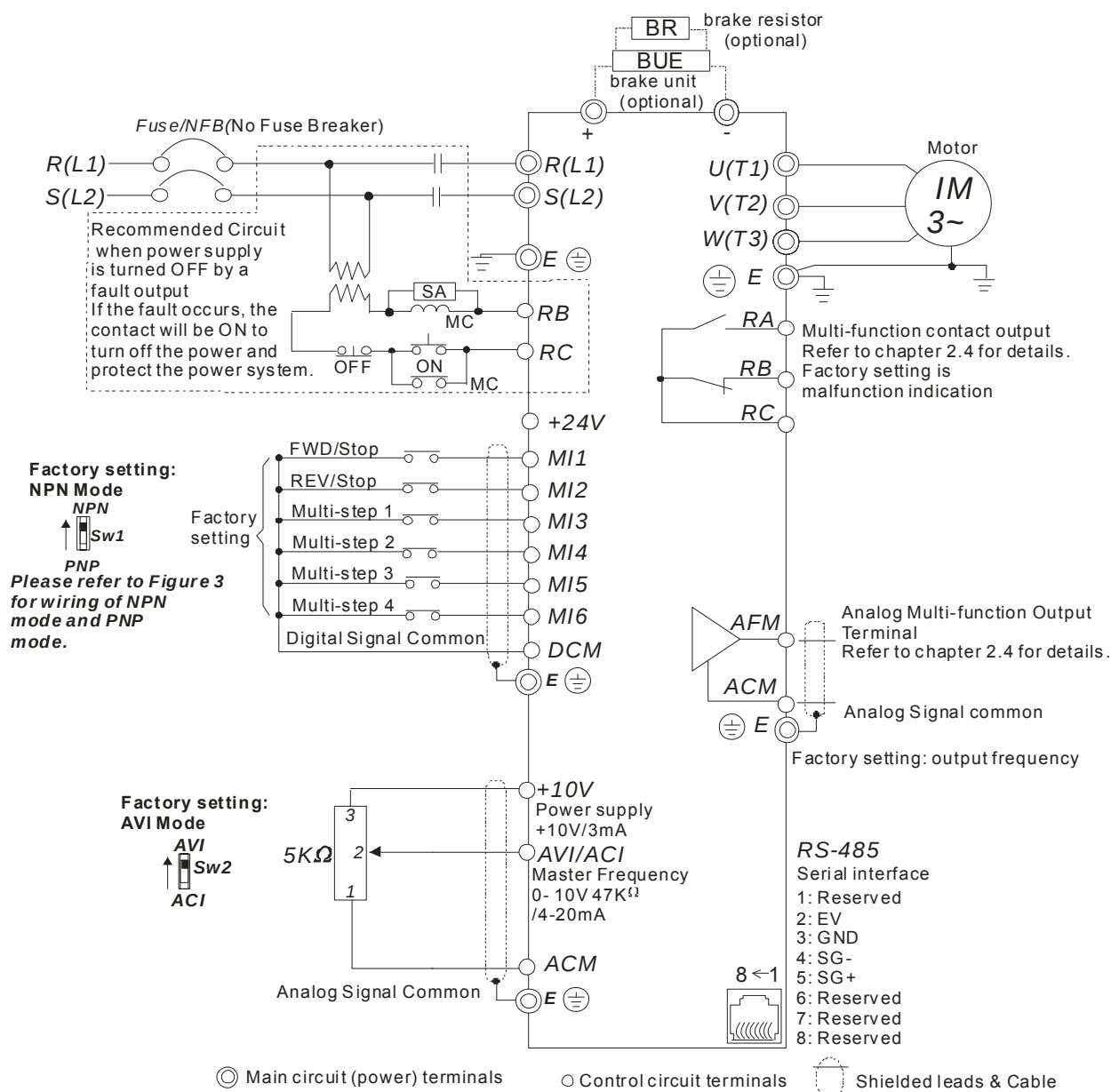


Figure 2 for models of VFD-EL Series

VFD002EL23A, VFD004EL23A/43A, VFD007EL23A/43A, VFD015EL23A/43A,
 VFD022EL23A/43A, VFD037EL23A/43A

