

Series			EL Series										E Series									
			single phase					3 phase					3 phase									
Model number VFD-__EL/E/C			002	004	007	015	004	007	015	022	037	004	007	015	022	037	055	075	110	150	185	220
Frame size			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max. applicable motor output	kW		0.2	0.4	0.75	1.5	0.4	0.75	1.5	2.2	3.7	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Output rating																						
Rated output capacity	NORMAL DUTY	kVA	0.6	1	1.6	2	1.2	2	3.3	4.4	6.8	1.2	2	303	404	6.8	9.9	13.7	18.3	24	29	34
Rated output current		A	1.6	2.5	4.2	7.5	1.5	2.5	4.2	5.5	8.2	1.5	2.5	4.2	5.5	8.5	13	18	24	32	38	45
Output frequency		Hz	three zone, setting range 0.1 – 600Hz										0.1 – 600Hz									
Carrier frequency		kHz	2 – 12kHz										1 – 15 kHz									
Rated output capacity	HEAVY DUTY	kVA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rated output current		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carrier frequency		kHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Input rating																						
Input current (heavy duty)	A		-										-									
Input current (normal duty)	A		4.9	6.5	9.5	15.7	1.8	3.2	4.3	7.1	9	1.9	3.2	4.3	7.1	11.2	14	19	26	35	41	49
Rated voltage	V		1-phase AC 200 – 240V					3-phase AC 380V – 480V					3-phase AC 380V – 480V 50/60Hz									
Operating voltage range	V		180 – 264V ±10%					342 – 528V ±10%					342 – 528V ±10%									
Frequency tolerance	Hz		± 5% (47 – 63Hz)										± 5% (47 – 63Hz)									
Cooling method			convection			fan		convection			fan cooling		convection					fan cooling				
Braking chopper			-										built-in									
DC reactor			-										-									
Control method			SPWM (Sinusoidal Pulse Width Modulation) V/f control										SPWM (Sinusoidal Pulse Width Modulation) V/f control									
Starting torque	%		up to 150% at 5.0Hz including auto-torque/slip										up to 150% at 3.0Hz including auto-torque/slip compensation									
V/f Curve			adjustable V/f pattern										adjustable V/f pattern									
Torque limit	%		150%										-									
Max. output frequency	Hz		three zones, setting range 0.1 – 600Hz										0.1 – 600Hz									
Frequency output accuracy			-										-									
Frequency setting resolution	Hz		0.01Hz										0.01Hz									
Overload tolerance			150% of rated current for 1 minute										150% of rated current for 1 minute									
Frequency setting signal			pot-5k/0.5W, 0 – +10 VDC, 4 – 20mA RS-485 interface										pot – 5k/0.5W, 0 – +10 VDC, 4 - 20mA, RS-485 interface									
Accel./decel. Time			0.1 – 600 sec. (2 settings accel/decel time)										0.1 – 600 sec. (2 independent settings accel/decel time)									
Main control functions			AVR, accel/decel S-Curve, overvoltage/current stall prevention, 5 fault records, reverse inhibition, momentary power loss restart, DC braking, auto torque/slip compensation, adjustable carrier frequency, output frequency limits, PID control, external counter										built-in PLC, AVR, accel/decel S-Curve, over-voltage/current stall prevention, 5 fault records, reverse inhibition, momentary power loss prevention, DC braking, auto torque/slip compensation, auto tuning, output frequency limits, vector control, PID control, external counter, MODBUS communication, abnormal reset/restart, adjustable carrier frequency, power saving, fan control, NPN/PNP selection									
Fan control			fan control										fan control									
Motor protection			electronic thermal relay protection										over/under-volt/current, ext. fault, overload, IGBT short circuit, PTC									
Over-current protection			yes										yes									
Over-voltage protection			yes										yes									
Over-temperature protection			yes										yes									
Stall prevention			20 – 250% of rated current										20 – 250% of rated current									
Re-start after momentary power off			yes										yes									
Ground current protection			yes										yes									
EMI filter			built-in										built-in									
Dimensions			H mm		174	174	174	174	174	174	142	174	260	310								
			W mm		72	100	72	100	72	100	72	100	130	200								
			D mm		136	136	136	136	136	136	152	152	169	190								
Optional accessories			CANopen/DeviceNet/LONworks/PROFIBUS modules braking unit, brake resistors, DIN rail mount adaptor										CANopen/DeviceNet/LONworks/PROFIBUS modules analog I/O cards – relay cards – PG cards, brake resistor units DIN rail mount adaptor - digital keypad									