

Specifications

230V Class

Model Number VFD-xxxV23A		230V Class											
		007	015	022	037	055	075	110	150	185	220	300	370
Output Rating	Max. Applicable Motor output (kW)	0.7	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
	Max. Applicable Motor output (HP)	1	2	3	5	7.5	10	15	20	25	30	40	50
	Constant Torque Output Current (A)	5.0	7.5	11	17	25	33	49	65	75	90	120	146
	Variable Torque Output Current (A)	6.25	9.4	13	21	31	41	61	81	93	112	150	182
	Rated Output Capacity kVA	1.9	2.7	4.2	6.5	9.5	12.5	19	25	29	34	46	55
	Maximum Output Voltage (V)	Proportional to the input voltage											
Input Rating	Rated Input Voltage/Frequency	200/208/220/230 VAC 3-phase, 50/60Hz											
	Operation Voltage Range/Frequency	180~265VAC, 47~63Hz											
	Input Current	6.4	10	14.9	21.2	25.2	33.2	58	69	83	100	120	146
Control Characteristics	Control System	1. Vector Control; 2. Torque Control; 3. V/F Control											
	Starting Torque	Starting Torque is 150% at 0.5Hz and above.											
	Speed Control Range	1:100 Sensorless Vector (1:1000 when using PG card and encoder feedback)											
	Speed Control Accuracy	0.5% Sensorless Vector (0.02% when using a PG card and encoder feedback)											
	Speed Response Ability	5Hz (connect externally with PG to achieve 30Hz)											
	Maximum Output Frequency (Hz)	0.00 to 400.00 Hz											
	Frequency Output Accuracy	Digital Command: $\pm 0.005\%$, Analog Command: $\pm 0.5\%$											
	Frequency-Set Resolution	Digital Command: 0.01Hz, Analog Command: 1/1000 (10bit) of the maximum output frequency											
	Torque Limit	Maximum allowable torque is 200%											
	Torque Accuracy	$\pm 5\%$											
	Accel/Decel Time	0.00~600.00/0.1~6000.0 sec											
	V/F Curve	Adjustable V/F curve using 4 independent points.											
Protection Characteristics	Frequency Control Signal	0-10V, -10-+10V, 4-20mA, Square wave pulse input											
	Braking Torque	Approx. 20%											
	Motor Protection	Electronic thermal relay protection											
	Over-Current Protection	The current forces 220% of the over-current protection and 300% of the rated current											
	Ground Current Leakage Protection	Current Leakage Protection: 50% peak value rated current											
	Over-Load Ability	Constant/Variable torque 150% for 60 seconds; 200% for 2 seconds											
	Voltage Protection 220V/440V	Over-voltage level: $V_{dc} > 400/800$ V; low-voltage level: $V_{dc} < 200/400$ V											
	Over-Voltage Protection for the Input Power	Varistor (MOV)											
Environment	Over-Temperature Protection	Built-in temperature sensor											
	Momentary Power Loss	5 second maximum time setting											
	Protection Level	NEMA 1/IP21											
	Ambient Temperature	$-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$ for UL & $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$ for CE											
	Storage Temperature	$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$											
	Humidity	Below 90% RH (non-condensing)											
	Vibration	Below 20hz: 1G, above 20hz: 0.6G											
	Cooling System	Forced air cooling											
Installation	Installation Location	Altitude of 1,000m or less, keep away from corrosive gas, liquid, and dust.											

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