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ACB530 +L502 AC Vector Drive



 3/4 thru 40 Hp
 230 Vac
 1 Phase - 50/60 Hz

 1.5 thru 100 Hp
 230 Vac
 3 Phase - 50/60 Hz

 1.5 thru 550 Hp
 460 Vac
 3 Phase - 50/60 Hz

 1 1/2 thru 150 Hp
 600 Vac
 3 Phase - 50/60 Hz

Applications: Variable torque, constant torque or constant horsepower applications. New installation, replacement and original equipment manufacture (OEM) use.

Features: Closed-Loop Vector, Volts per Hertz or Sensorless Vector Control with peak overload capacity of 150% and PID capability. Flexible mounting options include both UL type 1 & 12 enclosures. Removable keypad with operator interface and local speed control. Programming by Groups makes it easy to navigate and find parameters. A quick start assistant enables users to program and start using the drive in minutes without need of the User Manual. Built-in braking transistor allows connection to remote braking resistor for enhanced performance needs.

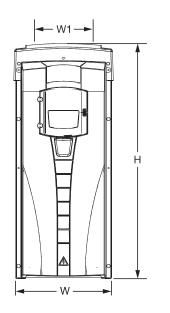
Patented swinging choke for superior harmonic reduction (R1-R6 frames) and AC line reactor (R8 frame)

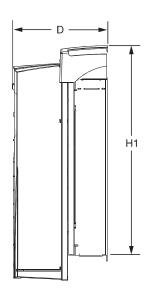
Input Ratings	Voltage	230	460	600		
	Input Voltage Range	208-240	380-480	500-600		
	Input Voltage Tolerance	+10% / -15%				
	Phase	Three Phase (Single-Phase 230V with	h derating)			
	Frequency	50/60Hz +5%	37			
Output Ratings	Horsepower	3/4-40 HP @ 230VAC, 1PH; 1.5-100 HP @ 230VAC, 3PH; 1.5-550 HP @ 460VAC, 3PH; 1-150 HP @ 600VAC, 3PH				
	Overload Capacity	Heavy Duty (Constant Torque) = 150% for 60 seconds, 175% for 3 seconds				
	o romoda odpaony	Normal Duty (Variable Torque) = 110% for 60 seconds				
	Frequency	0-500Hz	70 161 66 66661146			
	Voltage	0 to maximum input voltage (RMS)				
Protective Features	Overcurrent	Excessive Output Current				
Trotodayo routuroo	DC Overvoltage	High DC Bus				
	Overtemp	Drive heatsink above operating temp	erature			
	Short Circuit	Short on motor output terminals	orataro			
	Undervoltage	Low Voltage on Drive Input				
	Loss of Reference	Analog Input programmed for 4-20n	na hut cianal loce than Ama			
	Motor Overtemp	Excessive estimated Motor Temperat				
	Loss of Keypad	Drive will trip if under keypad control				
	Motor Model Calc Fail		pe determined - Sensorless Vector Control			
	Motor Stall	Motor cannot achieve commanded s				
	Ground Fault	Ground Fault detected in motor or m				
	Motor Phase Fault		otor caping			
Environmental		Loss of one of the motor phases -10 to 40°C, -10 to 50°C w/ derate				
	Temperature					
Conditions	Cooling	Forced air				
	Enclosure	UL Type 1 UL Type 12				
	Altitude		e 1% per 330 ft. (100 m) up to 6600 ft. (200	0 m)		
	Humidity	0 to 95% RH Non-Condensing				
Keypad Display	Display	LCD Graphical				
	Keys	8 key keypad with tactile response				
	Functions		ed control, Parameter setting and display, Dia	gnostic and Fault log display, Motor run,		
	B. I M. I	Local/Remote toggle				
	Remote Mount		using appropriate cable (see Options for kit)			
	Trip	Last three faults stored in Fault Histo				
Control Specifications	PWM Frequency	Adjustable 1.5-5kHz STD, 5-16 kHz				
	Frequency Setting	1, 4, 8, 12kHz (up to 150HP); 1 or 4	KHz (over 150HP)			
	Accel/Decel	0-1800 seconds				
	V/Hz Ratio	Linear or squared reduced				
	Speed Control Accuracy	20% of motor slip				
	Skip Frequency	Three zones 0-Max frequency				
	PC Setup Software	Drive Window Lite				
	Maximum Output Frequency	500 Hz				
	Selectable Operating Modes	2-Wire, 3-Wire, Baldor 3-Wire, Moto				
Analog Inputs	Two Single-ended	0 (2) to 10 V, Rin $>$ 312 k Ω single-e				
		0 (4) to 20 mA, Rin = 100 Ω single-	ended			
	Accuracy	±1%				
Analog Outputs	Two Current Outputs	0 (4) to 20 mA, load $<$ 500 Ω				
	Accuracy	±3%				
Motor Feedback	Туре	Digital Pulse Encoder				
	Pulses/Rev.	Up to 16,384; 1024 standard; 200 k				
	Input	2 Channels in Quadrature, 24Vdc, si	ngle-ended or differential			
	Marker Pulse	Required for orientation				

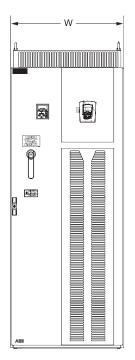
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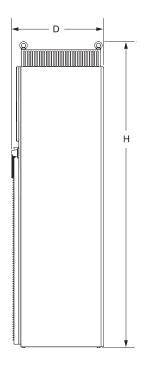
Digital Inputs	Six Digital Inputs	12 V 24 V DC with internal or external supply		
		Pull-up or Pull-down (PNP or NPN)		
	Input Impedance	2.4 ΚΩ		
	Maximum delay	5 ms ± 1ms		
	Maximum switching voltage	250 V AC/30 V DC		
	Maximum switching current	6 A/30 V DC; 1500 V A/230 V AC		
	Maximum continuous current	2 A rms		

Dimensions and Weights









Wall Mount (R1-R6)

Floor Mount (R7-R8)

Frame	Product Dimensions								
	H1	W1	Mounting Hardware	Н	w	D	Weight		
R1	12.5	3.9	#10	14.5	4.9	8.3	14.3		
R2	16.4	3.9	#10	18.5	4.9	8.7	19.5		
R3	18.6	6.3	#10	23	8	9.1	35		
R4	22.8	6.3	#10	27.1	8	10.3	53		
R5	23.2	9.4	0.25	29	10.5	11.3	75		
R6	26.6	10.4	0.25	35	11.9	15.8	152		
R7	Free Standing		NA	59.2	24	19.5	430		
R8	Free Standing		NA	83.9	31.5	23	827		