

Baldor Drives and Capabilities

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BALDOR
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ACB Part Numbers

	ACB530-U1-08A8-4+B055*
ACB, Standard Drive - 530 product series	
Construction (region specific)	
U1 = Setup and parts specific to US installation and UL compliance	
Output current rating	
e.g. 08A8 = 8.8 A, see section Rating for details	
Voltage Rating	
2 = 208 - 240 V AC	
4 = 380 - 480 V AC	
6 = 500 - 600 V AC	
Options	
Examples of options:	
B055 = IP54 / UL type 12	
(no specification = IP21 / UL type 1	
UL type 12 is not available for type ACB530-01-290A-4	
*Note: The ACB530 is provided in a UL type 1 enclosure as standard.	
If the "+B055 appended to the end of the catalog #, a UL type 12 drive will be provided.	

	ACB330-03U-07A3-4
ACB330 product series	
1-phase/3-phase	
01 = 1-phase input	
03 = 3-phase input	
Configuration	
U = EMC filter disconnected, 60 Hz frequency	
Output current rating	
In format xxAy, where xx indicates the integer part and y the fractional part,	
eg 07A3 means 7.3 A	
Input voltage range	
2 = 200...240 VAC	
4 = 380...480 VAC	

ACB530 AC Standard Drive



3/4 thru 40 Hp	230 Vac	1 Phase - 50/60 Hz
3/4 thru 100 Hp	230 Vac	3 Phase - 50/60 Hz
1 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: Volts per Hertz or Sensorless Vector Control with peak overload capacity of 150% and PID capability. Flexible mounting options with IP20 enclosure as standard and UL type 1 kit option. 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.

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 derating)		
	Frequency	50/60Hz +5%		
Output Ratings	Horsepower	3/4-40 HP @ 230VAC, 1PH; 3/4-100 HP @ 230VAC, 3PH; 1-550 HP @ 460VAC, 3PH; 1-150 HP @ 600VAC, 3PH		
	Overload Capacity	Heavy Duty (Constant Torque) = 150% for 60 seconds, 175% for 3 seconds Normal Duty (Variable Torque) = 110% for 60 seconds		
	Frequency	0-500Hz		
	Voltage	0 to maximum input voltage (RMS)		
Protective Features	Overcurrent	Excessive Output Current		
	DC Overvoltage	High DC Bus		
	Overtemp	Drive heatsink above operating temperature		
	Short Circuit	Short on motor output terminals		
	Undervoltage	Low Voltage on Drive Input		
	Loss of Reference	Analog Input programmed for 4-20ma but signal less than 4ma		
	Motor Overtemp	Excessive estimated Motor Temperature		
	Loss of Keypad	Drive will trip if under keypad control and keypad communication is lost		
	Motor Model Calc Fail	Drive will trip if Motor Model cannot be determined - Sensorless Vector Control		
	Motor Stall	Motor cannot achieve commanded speed due to excessive load		
	Ground Fault	Ground Fault detected in motor or motor cabling		
	Motor Phase Fault	Loss of one of the motor phases		
Environmental Conditions	Temperature	-10 to 40°C. -10 to 50°C w/ derate		
	Cooling	Forced air		
	Enclosure	UL Type 1 UL Type 12		
	Altitude	Sea level to 3300 ft. (1000 m) Derate 1% per 330 ft. (100 m) up to 6600 ft. (2000 m)		
	Humidity	0 to 95% RH Non-Condensing		
Keypad Display	Display	LCD Graphical		
	Keys	8 key keypad with tactile response		
	Functions	Output status monitoring, Digital speed control, Parameter setting and display, Diagnostic and Fault log display, Motor run, Local/Remote toggle		
	Remote Mount	Keypad may be mounted up to 10 ft. using appropriate cable (see Options for kit)		
	Trip	Last three faults stored in Fault History		
Control Specifications	PWM Frequency	Adjustable 1.5-5kHz STD, 5-16 kHz quiet		
	Frequency Setting	1, 4, 8, 12kHz (up to 150HP); 1 or 4kHz (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, Motor Potentiometer, Hand/Auto, PID		
Analog Inputs	Two Single-ended	0 (2) to 10 V, Rin > 312 kΩ single-ended 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%		

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 kΩ
	Maximum delay	5 ms ± 1ms
Digital Outputs	Three Relay Outputs	Form C
	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

ACB530 Inverter/Encoderless Vector - NEMA 1 Enclosure

ACB530 - 230V, 50/60Hz, 1-Phase Ratings based on 50% de-rate of 3-Phase Drive

Catalog Number	Heavy Duty			Normal Duty	
	Frame	HP	Cont. Amps	HP	Cont. Amps
ACB530-U1-07A5-2	R1	0.5	3.3	0.75	3.8
ACB530-U1-012A-2	R1	0.75	3.8	1	5.9
ACB530-U1-017A-2	R1	1	5.9	2	8.35
ACB530-U1-024A-2	R2	2	8.4	3	12.1
ACB530-U1-031A-2	R2	3	12.1	5	15.4
ACB530-U1-046A-2	R3	5	15.4	7.5	23.1
ACB530-U1-059A-2	R3	7.5	23.1	10	29.7
ACB530-U1-075A-2	R4	10	29.7	10	37.4
ACB530-U1-088A-2	R4	10	37.4	15	44
ACB530-U1-114A-2	R4	15	44.0	20	57
ACB530-U1-143A-2	R6	20	57.0	25	71.5
ACB530-U1-178A-2	R6	25	75.0	30	89
ACB530-U1-221A-2	R6	30	89.0	40	110.5
ACB530-U1-248A-2	R6	30	96.0	40	124

Note: See 230V, 50/60Hz, 3-Phase table below for pricing

ACB530 - 230V, 50/60Hz, 3-Phase

Catalog Number	Heavy Duty			Normal Duty		List Price	Mult. Sym.
	Frame	HP	Cont. Amps	HP	Cont. Amps		
ACB530-U1-07A5-2	R1	1.5	6.6	2	7.5	1075	EG
ACB530-U1-012A-2	R1	2	7.5	3	11.8	1100	EG
ACB530-U1-017A-2	R1	3	11.8	5	16.7	1300	EG
ACB530-U1-024A-2	R2	5	16.7	7.5	24.2	1675	EG
ACB530-U1-031A2	R2	7.5	24.2	10	30.8	2100	EG
ACB530-U1-046A-2	R3	10	30.8	15	46.2	2580	EG
ACB530-U1-059A-2	R3	15	46.2	20	59.4	3287	EG
ACB530-U1-075A-2	R4	20	59.4	25	74.8	4136	EG
ACB530-U1-088A-2	R4	25	74.8	30	88.0	5000	EG
ACB530-U1-114A-2	R4	30	88	40	114.0	6114	EG
ACB530-U1-143A-2	R6	40	114	50	143.0	7296	EG
ACB530-U1-178A-2	R6	50	150	60	178.0	9268	EG
ACB530-U1-221A-2	R6	60	178	75	221.0	11774	EG
ACB530-U1-248A-2	R6	75	192	100	248.0	12362	EG

ACB530 - 460V, 50/60Hz, 3-Phase

Catalog Number	Heavy Duty			Normal Duty		List Price	Mult. Sym.
	Frame	HP	Cont. Amps	HP	Cont. Amps		
ACB530-U1-04A1-4	R1	1.5	3.3	2	4.1	1216	EG
ACB530-U1-06A9-4	R1	2	5.4	3	6.9	1351	EG
ACB530-U1-08A8-4	R1	3	6.9	5	8.8	1637	EG
ACB530-U1-012A-4	R1	5	8.8	7.5	11.9	1776	EG
ACB530-U1-015A-4	R2	7.5	11.9	10	15.4	2249	EG
ACB530-U1-023A-4	R2	10	15.4	15	23.0	2466	EG
ACB530-U1-031A-4	R3	15	23.0	20	31.0	2761	EG
ACB530-U1-038A-4	R3	20	31.0	25	38.0	3353	EG
ACB530-U1-045A-4	R3	25	38.0	30	44.0	4142	EG
ACB530-U1-059A-4	R4	30	44.0	40	59.0	4930	EG
ACB530-U1-072A-4	R4	40	59.0	50	72.0	5719	EG
ACB530-U1-078A-4	R4	50	65.0	60	77.0	7100	EG
ACB530-U1-097A-4	R4	60	77.0	75	96.0	9266	EG
ACB530-U1-125A-4	R5	75	96.0	100	124.0	10748	EG
ACB530-U1-157A-4	R6	100	124.0	125	157.0	12424	EG
ACB530-U1-180A-4	R6	125	156.0	150	180.0	13311	EG
ACB530-U1-246A-4	R6	150	192.0	200	245.0	17164	EG
ACB530-PC-316A-4	R8	200	240.0	250	316.0	23686	EH
ACB530-PC-368A-4	R8	250	302.0	300	368.0	36417	EH
ACB530-PC-414A-4	R8	300	368.0	350	414.0	41085	EH
ACB530-PC-486A-4	R8	350	414.0	400	486.0	48313	EH

ACB530 - 600V, 50/60Hz, 3-Phase

Catalog Number	Heavy Duty			Normal Duty		List Price	Mult. Sym.
	Frame	HP	Cont. Amps	HP	Cont. Amps		
ACB530-U1-02A7-6	R2	1.5	2.4	2	2.7	1362	EG
ACB530-U1-03A9-6	R2	2	2.7	3	3.9	1651	EG
ACB530-U1-06A1-6	R2	3	3.9	5	6.1	1801	EG
ACB530-U1-09A0-6	R2	5	6.1	7.5	9.0	1952	EG
ACB530-U1-011A-6	R2	7.5	9.0	10	11.0	2473	EG
ACB530-U1-017A-6	R2	10	11.0	15	17.0	2713	EG
ACB530-U1-022A-6	R3	15	17.0	20	22.0	3471	EG
ACB530-U1-027A-6	R3	20	22.0	25	27.0	4123	EG
ACB530-U1-032A-6	R4	25	27.0	30	32.0	5098	EG
ACB530-U1-041A-6	R4	30	32.0	40	41.0	6182	EG
ACB530-U1-052A-6	R4	40	41.0	50	52.0	7592	EG
ACB530-U1-062A-6	R4	50	52.0	60	62.0	9111	EG
ACB530-U1-077A-6	R6	60	62.0	75	77.0	10195	EG
ACB530-U1-099A-6	R6	75	77.0	100	99.0	11822	EG
ACB530-U1-125A-6	R6	100	99.0	125	125.0	15185	EG
ACB530-U1-144A-6	R6	125	125.0	150	144.0	16269	EG

ACB530 Inverter/Encoderless Vector - NEMA 12 Enclosure

ACB530 - 230V, 50/60Hz, 1-Phase Ratings based on 50% de-rate of 3-Phase Drive

Catalog Number	Heavy Duty			Normal Duty	
	Frame	HP	Cont. Amps	HP	Cont. Amps
ACB530-U1-07A5-2+B055	R1	0.5	3.3	0.75	3.8
ACB530-U1-012A-2+B055	R1	0.75	3.8	1	5.9
ACB530-U1-017A-2+B055	R1	1	5.9	2	8.35
ACB530-U1-024A-2+B055	R2	2	8.4	3	12.1
ACB530-U1-031A-2+B055	R2	3	12.1	5	15.4
ACB530-U1-046A-2+B055	R3	5	15.4	7.5	23.1
ACB530-U1-059A-2+B055	R3	7.5	23.1	10	29.7
ACB530-U1-075A-2+B055	R4	10	29.7	10	37.4
ACB530-U1-088A-2+B055	R4	10	37.4	15	44
ACB530-U1-114A-2+B055	R4	15	44.0	20	57
ACB530-U1-143A-2+B055	R6	20	57.0	25	71.5
ACB530-U1-178A-2+B055	R6	25	75.0	30	89
ACB530-U1-221A-2+B055	R6	30	89.0	40	110.5
ACB530-U1-248A-2+B055	R6	30	96.0	40	124

Note: See 230V, 50/60Hz, 3-Phase table below for pricing

ACB530 - 230V, 50/60Hz, 3-Phase

Catalog Number	Heavy Duty			Normal Duty		List Price	Mult. Sym.
	Frame	HP	Cont. Amps	HP	Cont. Amps		
ACB530-U1-07A5-2+B055	R1	1.5	7.5	2	6.6	1205	EG
ACB530-U1-012A-2+B055	R1	2	11.8	3	7.5	1580	EG
ACB530-U1-017A-2+B055	R1	3	16.7	5	11.8	1800	EG
ACB530-U1-024A-2+B055	R2	5	24.2	7.5	16.7	2412	EG
ACB530-U1-031A-2+B055	R2	7.5	30.8	10	24.2	2852	EG
ACB530-U1-046A-2+B055	R3	10	46.2	15	30.8	3538	EG
ACB530-U1-059A-2+B055	R3	15	59.4	20	46.2	4422	EG
ACB530-U1-075A-2+B055	R4	20	74.8	25	59.4	5410	EG
ACB530-U1-088A-2+B055	R4	25	88.0	30	74.8	5972	EG
ACB530-U1-114A-2+B055	R4	30	114.0	40	88	6875	EG
ACB530-U1-143A-2+B055	R6	40	143.0	50	114	8618	EG
ACB530-U1-178A-2+B055	R6	50	178.0	60	150	11092	EG
ACB530-U1-221A-2+B055	R6	60	221.0	75	178	14216	EG
ACB530-U1-248A-2+B055	R6	75	248.0	100	192	15704	EG

ACB530 - 460V, 50/60Hz, 3-Phase

Catalog Number	Heavy Duty			Normal Duty		List Price	Mult. Sym.
	Frame	HP	Cont. Amps	HP	Cont. Amps		
ACB530-U1-04A1-4+B055	R1	1.5	3.3	2	4.1	1657	EG
ACB530-U1-06A9-4+B055	R1	2	5.4	3	6.9	1805	EG
ACB530-U1-08A8-4+B055	R1	3	6.9	5	8.8	2135	EG
ACB530-U1-012A-4+B055	R1	5	8.8	7.5	11.9	2302	EG
ACB530-U1-015A-4+B055	R2	7.5	11.9	10	15.4	2811	EG
ACB530-U1-023A-4+B055	R2	10	15.4	15	23.0	3058	EG
ACB530-U1-031A-4+B055	R3	15	23.0	20	31.0	3523	EG
ACB530-U1-038A-4+B055	R3	20	31.0	25	38.0	4713	EG
ACB530-U1-045A-4+B055	R3	25	38.0	30	44.0	5512	EG
ACB530-U1-059A-4+B055	R4	30	44.0	40	59.0	6296	EG
ACB530-U1-072A-4+B055	R4	40	59.0	50	72.0	7742	EG
ACB530-U1-078A-4+B055	R4	50	65.0	60	77.0	9071	EG
ACB530-U1-097A-4+B055	R4	60	77.0	75	96.0	10343	EG
ACB530-U1-125A-4+B055	R5	75	96.0	100	124.0	12294	EG
ACB530-U1-157A-4+B055	R6	100	124.0	125	157.0	15827	EG
ACB530-U1-180A-4+B055	R6	125	156.0	150	180.0	17211	EG
ACB530-U1-246A-4+B055	R6	150	192.0	200	245.0	21947	EG
ACB530-PC-316A-4+B055	R8	200	240.0	250	316.0	31446	EH
ACB530-PC-368A-4+B055	R8	250	302.0	300	368.0	40945	EH
ACB530-PC-414A-4+B055	R8	300	368.0	350	414.0	42813	EH
ACB530-PC-486A-4+B055	R8	350	414.0	400	486.0	49688	EH
ACB530-PC-526A-4+B055	R8	400	477	450	526	57500	EH
ACB530-PC-602A-4+B055	R8	450	515	500	602	59159	EH
ACB530-PC-645A-4+B055	R8	500	590	550	645	62033	EH

ACB530 - 600V, 50/60Hz, 3-Phase

Catalog Number	Heavy Duty			Normal Duty		List Price	Mult. Sym.
	Frame	HP	Cont. Amps	HP	Cont. Amps		
ACB530-U1-02A7-6+B055	R2	1.5	2.4	2	2.7	2235	EG
ACB530-U1-03A9-6+B055	R2	2	2.7	3	3.9	2540	EG
ACB530-U1-06A1-6+B055	R2	3	3.9	5	6.1	2780	EG
ACB530-U1-09A0-6+B055	R2	5	6.1	7.5	9.0	3026	EG
ACB530-U1-011A-6+B055	R2	7.5	9.0	10	11.0	3577	EG
ACB530-U1-017A-6+B055	R2	10	11.0	15	17.0	4062	EG
ACB530-U1-022A-6+B055	R3	15	17.0	20	22.0	5378	EG
ACB530-U1-027A-6+B055	R3	20	22.0	25	27.0	6211	EG
ACB530-U1-032A-6+B055	R4	25	27.0	30	32.0	7319	EG
ACB530-U1-041A-6+B055	R4	30	32.0	40	41.0	8491	EG
ACB530-U1-052A-6+B055	R4	40	41.0	50	52.0	10015	EG
ACB530-U1-062A-6+B055	R4	50	52.0	60	62.0	11692	EG
ACB530-U1-077A-6+B055	R6	60	62.0	75	77.0	12862	EG
ACB530-U1-099A-6+B055	R6	75	77.0	100	99.0	15271	EG
ACB530-U1-125A-6+B055	R6	100	99.0	125	125.0	19626	EG
ACB530-U1-144A-6+B055	R6	125	125.0	150	144.0	20601	EG

ACB530 Option Kits

Catalog Number		List Price	Mult. Sym.
OHDI-01	The 115/230V Digital Input Interface module offers six (6) 115V or three (3) 230V rated relays mounted on a common board used to drive DI1 through DI6 of the ACB530. The 115/230V must be provided by the user.	300	EG
OPMP-01	Control Panel Mounting Platform allows remote mounting of the keypad on a large enclosure or remote panel. The kit maintains UL Type 12 integrity of the mounting location. Adapters, 3 m (10ft) cable and mounting hardware are included in this kit. With this mounting arrangement, the keypad is removable from the panel in a fashion identical to a drive-mounted keypad.	138	EF
OCAT-01	7 foot CAT 5 patch cable allows remote operation of the standard panel or connection of the drive to a Personal Computer using the RJ45/DB9 Adapter which must be purchased separately.	40	EG
ACS/H-CP-EXT	Control Panel Mounting Kit for ACB530 drives allows remote mounting of the ACB530 keypad on the door of an enclosure. The kit includes a 10 ft (3 m) CAT 5 patch cable, gasket for NEMA 12, mounting hardware and drilling template.	55	EG
ACS/H-CP-EXT-IP66	Allows remote mounting of the ACB-CP-BA Operator Panels on a larger NEMA 4X (IP66) enclosure or remote panel. The kit maintains NEMA 4X integrity of the mounting location. All necessary hardware and a mounting template are provided in addition to a 3 m panel cable. When mounted, the operator is not removable from the front of the enclosure. The operator panel must be purchased separately.	63	EG
RDNA-01	The DeviceNet network uses a linear bus topology. Terminating resistors are required on each end of the trunk line. Drop lines as long as 6 meters (20 feet) each are permitted, allowing one or more nodes to be attached. DeviceNet allows branching structures only on drop lines.	465	EG
RPBA-01	PROFIBUS is an open serial communication standard that enables data exchange between all kinds of automation components. The physical transmission medium of the bus is a twisted pair cable (according to the RS-485 standard). The maximum length of the bus cable is 100 to 1200 meters, depending on the selected transmission rate. Up to 31 stations can be connected to the same PROFIBUS system without the use of repeaters.	465	EG
RETA-01	The RETA-01 Adapter module supports the Modbus/TCP and EtherNet/IP network protocols. Modbus/TCP is a variant of the Modbus family of simple, vendor-neutral communication protocols intended for supervision and control of automation equipment. The implementation of the Modbus/TCP server in the RETA-01 module is done according to the Modbus/TCP Specification 1.0. The Modbus/TCP protocol allows the RETA-01 module to be used as an Ethernet bridge to control the drive. The RETA-01 module supports eight simultaneous IP connections. Ethernet/IP is based on the Common Industrial Protocol (CIP), which is also the framework for both the ControlNet and DeviceNet networks. Ethernet/IP uses standard Ethernet and TCP/IP technology to transport CIP communication packets. The module fulfills all requirements for certification as an Ethernet/IP device.	465	EG
RCNA-01	The ControlNet network uses an RG-6 quad shielded cable or fibre with support for media redundancy. The RCNA-01 Adapter module supports only RG-6 quad shielded cable (coax) for the bus connection. ControlNet is flexible in topology options (bus, tree, star) to meet various application needs. The fieldbus speed is 5 Mbits/s. The RCNA-01 ControlNet Adapter module can not originate connections on its own, but a scanner node can open a connection towards it. The ControlNet protocol is implemented according to the ControlNet International specification for a Communication adapter.	595	EG
RECA-01	The RECA-01 module supports EtherCAT® network protocol. EtherCAT® is a Real Time Ethernet technology which aims to maximize the use of the full duplex Ethernet bandwidth. It overcomes the overhead normally associated with Ethernet by employing "on the fly" processing hardware. An EtherCAT® bus consists of a master system and up to 65535 slave devices, connected together with standard Ethernet cabling. The RECA-01 supports 10/100 Mbps transfer rate with network connections made with CAT 5 wiring and RJ-45 connectors. Designed for daisy chain configuration on an EtherCAT® network.	525	EG
FMK-A-R1	Flange Mounting Kits for the ACB530 drives allows mounting the drive with the heatsink external to a 3rd party enclosure. Use of the flange kit requires removal of the drive cover, reducing protection to IP00. R1 through R4 flange kits can be used with 3rd party UL Type 1 & 12 (NEMA 1 & 12) enclosures. R5 and R6 kits provide NEMA 1 protection only.	151	EG
FMK-A-R2		192	
FMK-A-R3		250	
FMK-A-R4		319	
AC8-FLNGMT-R5		359	
AC8-FLNGMT-R6		416	

ACB330 AC Micro Drive



1/2 thru 3 Hp
1/2 thru 15 Hp
1/2 thru 30 Hp

230 Vac
230 Vac
460 Vac

1 Phase - 50/60 Hz
3 Phase - 50/60 Hz
3 Phase - 50/60 Hz

Applications: Variable torque, constant torque or constant horsepower applications. New installations, replacements and original equipment manufactures (OEM).

Features: Volts per Hertz or Sensorless Vector Control with peak overload capacity of 150% and PID capability. Flexible mounting options with IP20 enclosure as standard and NEMA 1 option kit. 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 for a User Manual. Built-in braking transistor allows connection to remote braking resistor for enhanced performance needs.

Performance Features	Control Modes	V/Hz or Sensorless Vector
	Operator Interface Module	Integral Drive Mounted
	Keypad Display	LCD Graphical Display
	Programmable Preset Speeds	Seven
	Analog Outputs	One (0/4 - 20 maDC)
	Auto Restart	Yes -- Up to 5 attempts
	Frequency Avoidance	Three Bands
	Fault History	Last Three Faults
	Digital Inputs	Five Configurable Inputs
	Digital Inputs Type	Pull-up or Pull-down
Drive Specifications	Analog Inputs: Two Total	0-10VDC, -10 to 10VDC or 0/4 - 20maDC
	Digital Outputs: Two Total	One Transistor Output One Form C Relay
	Analog Outputs	0/4 - 20maDC
	Overload Capacity	Drive Output 150% for 1 min., 180% for 2 sec. at start
	Speed Control Accuracy	Static: 20% of motor nominal slip
	Input Voltage Ranges:	200 - 240VAC; 380 - 480VAC
	Input Voltage Tolerance	10% / -10%
	Rated Input Frequency	50-60Hz (±5%)
	Carrier Frequency:	4-16 kHz (4 kHz default)
	Operating Temperature:	-10° to 40°C; -10° to 50°C w/ 10% derate
	Snubber (Dynamic Braking):	Built-in Transistor
	Flux Braking:	Standard
	DC Injection Braking:	Included
	Flux Optimization:	Can improve efficiency up to 10% on light loads
	Volts/Hz	Linear V/Hz Quadratic V/Hz Custom 4-Point V/Hz Curve
	Sensorless Vector:	Full Sensorless Vector Control with Autotune Function and Motor Model Calculation
	Frequency Control Range:	0-600 Hz
	Accel/Decel:	Two independently adjustable sets of ramps
	Time Range:	0.0 to 1800 Seconds
	S Curve Accel. & Decel.	Yes, with adjustable rounding time
	Keypad Speed Control	Yes
	Sink/Source Inputs	Selectable, 24 VDC Logic
	Electronic Overload Trip	Electronic Motor Overload Inverse Time calculation
	Communications	Built-in MODBUS-RTU (RS-485) Communications
	PID Control	Built-in
Protective Features	Under Voltage	Level Depends on Voltage Class (240, 480)
	Ground Fault Protection	Ground Fault protection active during run
	Output Short Circuit	Phase-to-Phase on Drive Output
	Over Temperature	Heatsink Monitor
	Motor Overtemp	Excessive estimated Motor Temperature
	DC Bus Overvoltage	DC Bus Level Trip
	IGBT Overtemp	Drive Output IGBT Temp is too high
	Over Current	Over-current/short-Circuit protection

Protective Features (cont.)	Output Phase	Trips on open Output Phase
	Loss of Reference	Trips on Loss of Speed Command Signal
	Comm. Error	Detects a communication error (fault)
	Loss of Keypad	Drive will trip if under keypad control and keypad communication is lost
	Motor Model Calc Fail	Drive will trip if Motor Model cannot be determined - Sensorless Vector Control
Agency Certifications		UL, cUL, CE, C-tick, RoHS
Service Conditions	Altitude:	1,000 m (3,300 ft.). Derate by 1% every 100 m (328 ft.) up to 2,000m (6,600 ft.)
	Ambient Temperature:	-10°C (14°F) to 40°C (104°F) - up to 50°C with 10% derate
	Relative Humidity:	0% to 95%, non-condensing
	Intermittent Overload:	150% overload capacity for up to 1 minute
		180% overload capacity for up to 2 seconds

ACB330 - 230V, 50/60Hz, 1-Phase

Catalog Number	Heavy Duty			List Price	Mult. Sym.
	Frame	Hp	Cont. Amps		
ACB330-01U-02A4-2	R0	0.5	2.4	493	EF
ACB330-01U-04A7-2	R1	1.0	4.7	539	EF
ACB330-01U-07A5-2	R2	2.0	7.5	629	EF
ACB330-01U-09A8-2	R2	3.0	9.8	726	EF

ACB330 - 230V, 50/60Hz, 3-Phase

Catalog Number	Heavy Duty			List Price	Mult. Sym.
	Frame	Hp	Cont. Amps		
ACB330-03U-02A4-2	R0	0.5	2.4	493	EF
ACB330-03U-04A7-2	R1	1	4.7	539	EF
ACB330-03U-07A5-2	R1	2	7.5	629	EF
ACB330-03U-09A8-2	R2	3	9.8	726	EF
ACB330-03U-17A6-2	R2	5	17.6	862	EF
ACB330-03U-24A4-2	R3	7.5	24.4	1 076	EF
ACB330-03U-31A0-2	R4	10	31.0	1 370	EF
ACB330-03U-46A2-2	R4	15	46.2	1 760	EF

ACB330 - 460V, 50/60Hz, 3-Phase

Catalog Number	Heavy Duty			List Price	Mult. Sym.
	Frame	Hp	Cont. Amps		
ACB330-03U-01A2-4	R0	0.5	1.2	558	EF
ACB330-03U-02A4-4	R1	1	2.4	640	EF
ACB330-03U-04A1-4	R1	2	4.1	714	EF
ACB330-03U-05A6-4	R1	3	5.6	832	EF
ACB330-03U-08A8-4	R1	5	8.8	958	EF
ACB330-03U-12A5-4	R3	7.5	12.5	1 142	EF
ACB330-03U-15A6-4	R3	10	15.6	1 372	EF
ACB330-03U-23A1-4	R3	15	23.1	1 710	EF
ACB330-03U-31A0-4	R4	20	31	2 052	EF
ACB330-03U-38A0-4	R4	25	38	2 411	EF
ACB330-03U-44A0-4	R4	30	44	2 895	EF

ACB330 Option Kits

Catalog Number		List Price	Mult. Sym.
MPOT-01	Potentiometer with two switches: Start/Stop and Forward/ Reverse. Polarity is selected with DIP switches. No external power source is needed for the potentiometer.	30	EF
OPMP-01	Control Panel Mounting Platform allows remote mounting of the keypad on a large enclosure or remote panel. The kit maintains UL Type 12 integrity of the mounting location. Adapters, 3 m (10ft) cable and mounting hardware are included in this kit. With this mounting arrangement, the keypad is removable from the panel in a fashion identical to a drive-mounted keypad.	138	EF
ACS/H-CP-EXT	Control Panel Mounting Kit for ACB530 drives allows remote mounting of the ACB530 keypad on the door of an enclosure. The kit includes a 10 ft (3 m) CAT 5 patch cable, gasket for NEMA 12, mounting hardware and drilling template.	55	EF
ACS/H-CP-EXT-IP66	Allows remote mounting of the ACB-CP-BA Operator Panels on a larger NEMA 4X (IP66) enclosure or remote panel. The kit maintains NEMA 4X integrity of the mounting location. All necessary hardware and a mounting template are provided in addition to a 3 m panel cable. When mounted, the operator is not removable from the front of the enclosure. The operator panel must be purchased separately.	63	EF
OCAT-01	7 foot CAT 5 patch cable allows remote operation of the standard panel or connection of the drive to a Personal Computer using the RJ45/DB9 Adapter which must be purchased separately.	40	EF
MPOW-01	The optional auxiliary power module provides auxiliary voltage to the control panel, fieldbus, and I/O	125	EF
FDNA-01	The DeviceNet network uses a linear bus topology. Terminating resistors are required on each end of the trunk line. Drop lines as long as 6 meters (20 feet) each are permitted, allowing one or more nodes to be attached. DeviceNet allows branching structures only on drop lines.	260	EF
FENA-01	The FENA-01 module supports both Modbus®-TCP and EtherNet/IP™ network protocols. The Modbus-TCP protocol is simply the Modbus protocol used on top of Ethernet-TCP/IP. Modbus-TCP is an open Industrial Ethernet network which has been specified by the Modbus-IDA User Organization. EtherNet/ IP is based on the Common Industrial Protocol (CIP), which is also the framework for both the ControlNet and DeviceNet network protocols. The FENA-01 supports 10/100 Mbps transfer rate with network connections made with CAT 5 wiring and RJ-45 connectors. Both star and bus topology options are supported.	400	EF
FECA-01	The FECA-01 module supports EtherCAT® network protocol. EtherCAT® is a Real Time Ethernet technology which aims to maximize the use of the full duplex Ethernet bandwidth. It overcomes the overhead normally associated with Ethernet by employing "on the fly" processing hardware. An EtherCAT® bus consists of a master system and up to 65535 slave devices, connected together with standard Ethernet cabling. The FECA-01 supports 10/100 Mbps transfer rate with network connections made with CAT 5 wiring and RJ-45 connectors. Designed for daisy chain configuration on an EtherCAT® network.	400	EF
FPBA-01	PROFIBUS is an open serial communication standard that enables data exchange between all kinds of automation components. The physical transmission medium of the bus is a twisted pair cable (according to the RS-485 standard). The maximum length of the bus cable is 100 to 1200 meters, depending on the selected transmission rate. Up to 31 stations can be connected to the same PROFIBUS system without the use of repeaters.	290	EF
FMBA-01	Modbus is a serial, asynchronous protocol. The Modbus protocol does not specify the physical interface. Typical physical interfaces are RS-232 and RS-485. The FMBA-01 provides a galvanically isolated RS-485 interface. Modbus is designed for integration with Modicon PLCs or other automation devices, and the services closely correspond to the PLC architecture. The FMBA-01 supports the RTU protocol only.	142	EF
MUL1-R1 MUL1-R3 MUL1-R4	This option provides the necessary hardware to modify the ACB330 drive from the standard fingersafe protected chassis to NEMA 1 protection capable of landing conduit. MUL1-R1 kit is used with frame sizes R0 through R2, MUL1-R3 is used with frame size R3, and MUL1-R4 is used with frame size R4.	75 75 100	EF



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