

Aquavar IPC

Intelligent Pump Controller

Purchase order number	Part number
Customer name:	
Customer address:	Date:
	Application:
	Job:
Contact name:	Submittal prepared by:

Standard features / capabilities

Output power:	3 Phase from 0 to Vsupply, 0 - 120 Hz
Analog input:	2, 1 Current, 1 Voltage or Current, Direct or Inverse
Programmable digital outputs:	6, 2 can be used as digital outputs
Programmable analog outputs:	1, 0 - 10vdc or 4 - 20mA
Programmable relay outputs:	2, Standard Form C, 240 VAC, 2 A
Motor protection:	Ground fault, motor stall, motor over temperature, motor condensation, motor overload
Pump protection:	Pump no-flow, under pressure, no water/loss of prime, short-cycle, vibration
Ambient temperature:	14° F to 122° F
Transducer:	4-20mA, 300 psi transducer and 16' cable

Notes

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Input phase	Nominal HP			
☐ 1PH/208-230V (1)	☐ 1.5 (0015)	☐ 10 (0100)	☐ 40 (0400)	
☐ 3PH/208-230V (2)	☐ 2 (0020)	☐ 15 (0150)	☐ 60 (0600)	
☐ 1PH/380-460V (3)	☐ 3 (0030)	☐ 20 (0200)	☐ 75 (0750)	
☐ 3PH/380-460V (4)	☐ 5 (0050)	☐ 25 (0250)	☐ 100 (1000)	
☐ 3PH/575V (5)	☐ 7.5 (0075)	☐ 30 (0300)	☐ 125 (1250)	

Enclosure	Communication options	Input/output options	Backup options
☐ NEMA 1 (A)	☐ Standard (0)	☐ No additional I/O (X)	☐ No backup (0)
☐ NEMA 12 (B)	☐ Modbus TCP (1)	☐ Analog I/O (A)	☐ 24VDC backup (4)
☐ NEMA 3R (C)	☐ Profibus (2)	☐ General purpose I/O (B)	
☐ NEMA 4X (D)	☐ DeviceNet (3)	☐ PTC thermistor card (C)	
☐ IP20 (E)	☐ LonWorks (4)	☐ PT 100 sensor input (D)	
	☐ Profinet (5)	☐ Relay card (E)	
	☐ Ethernet IP (6)		

Disconnect options	Coating/EMC filter options	Motor mounting options
☐ No accessories (X)	☐ Standard Protection/H2 EMC Filter (0)	☐ No accessories (X)
☐ Standard disconnect (S)	☐ Standard Protection/H3 EMC Filter (1)	☐ Motor mount hardware
☐ Fused disconnect (D)	☐ Standard Protection/H1 EMC Filter (2)	
	☐ 3C3 Board Coating/H2 EMC Filter (3)	
	☐ 3C3 Board Coating/H3 EMC Filter (4)	
	☐ 3C3 Board Coating/H1 EMC Filter (5)	

Transducer	
☐ Transducer (1)	☐ No transducer (2)

Frame sizes			
☐ A2 (IP20 - 11 lbs)	☐ A4 (22 lbs)	☐ B3 (27 lbs)	☐ C3 (78 lbs)
☐ A2 (NEMA 1 - 12 lbs)	☐ A5 (31 lbs)	☐ Analog I/O (A)	☐ C4 (111 lbs)
☐ A3 (IP20 - 15 lbs)	☐ B1 (51 lbs)	☐ B4 (52 lbs)	
☐ A3 (NEMA 1 - 16 lbs)	☐ B2 (60 lbs)	☐ C2 (144 lbs)	

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Mechanical dimensions

Frame size (HP):	A2		A3		A4	A5	B1	B2	B3	B4	C1	C2	C3	C4
208-230V	1.5-3		5		1.5-3	1.5-5	7.5-15	20	7.5-15	20-25	25-40	50-60	30-40	50-60
380-460V	1.5-5		7.5-10		1.5-5	1.5-10	15-25	30-40	15-25	30-50	50-75	100-125	60-75	100-125
575V			1.5-10			1.5-10	15-25	15-40	15-25	30-50	50-75	50-125	60-75	100-125
Enclosure options	IP20 OPEN	NEMA 1	IP20 OPEN	NEMA 1	NEMA 12 NEMA 4X	NEMA 12 NEMA 4X	NEMA 1 NEMA 12 NEMA 4X	NEMA 1 NEMA 12 NEMA 4X	IP20 OPEN	IP20 OPEN	NEMA 1 NEMA 12 NEMA 4X	NEMA 1 NEMA 12 NEMA 4X	IP20 OPEN	IP20 OPEN

Height in (mm)

Enclosure	9.69 (246)	14.65 (372)	9.69 (246)	14.65 (372)	15.35 (390)	16.54 (420)	18.90 (480)	25.59 (650)	13.78 (350)	18.11 (460)	26.77 (680)	30.31 (770)	19.29 (490)	23.62 (600)
With decoupling plate	14.72 (374)	—	14.72 (374)	—	—	—	—	—	16.50 (419)	23.43 (595)	—	—	24.80 (630)	31.50 (800)
Backplate	10.55 (268)	14.76 (375)	10.55 (268)	14.76 (375)	15.35 (390)	16.54 (420)	18.90 (480)	25.59 (650)	15.71 (399)	20.47 (520)	26.77 (680)	30.31 (770)	21.65 (550)	25.98 (660)
Distance between mounting holes	10.12 (257)	13.78 (350)	10.12 (257)	13.78 (350)	15.79 (401)	15.83 (402)	17.87 (454)	24.57 (624)	14.96 (380)	19.49 (495)	25.51 (648)	29.09 (739)	20.51 (521)	24.84 (631)

Width in (mm)

Enclosure	3.54 (90)	3.54 (90)	5.12 (130)	5.12 (130)	7.87 (200)	9.53 (242)	9.53 (242)	9.53 (242)	6.50 (165)	9.09 (231)	12.13 (308)	14.57 (370)	12.13 (308)	14.57 (370)
Backplate	3.54 (90)	3.54 (90)	5.12 (130)	5.12 (130)	7.87 (200)	9.53 (242)	9.53 (242)	9.53 (242)	6.50 (165)	9.09 (231)	12.13 (308)	14.57 (370)	12.13 (308)	14.57 (370)
Distance between	2.76 (70)	2.76 (70)	4.33 (110)	4.33 (110)	6.73 (171)	8.46 (215)	8.27 (210)	8.27 (210)	5.51 (140)	7.87 (200)	10.71 (272)	13.15 (334)	10.63 (270)	12.99 (330)

Depth in (mm)

Without A/B option card*	8.07 (205)	8.07 (205)	8.07 (205)	8.07 (205)	6.89 (175)	7.87 (200)	10.24 (260)	10.24 (260)	9.76 (248)	9.53 (242)	12.20 (310)	13.19 (335)	13.11 (333)	13.11 (333)
With A/B option card*	8.66 (220)	8.66 (220)	8.66 (220)	8.66 (220)	6.89 (175)	7.87 (200)	10.24 (260)	10.24 (260)	10.31 (262)	9.53 (242)	12.20 (310)	13.19 (335)	13.11 (333)	13.11 (333)

Inches (mm)

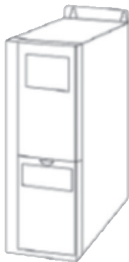
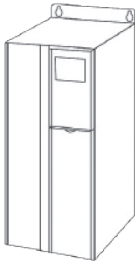
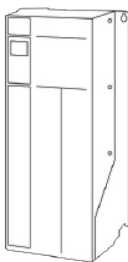
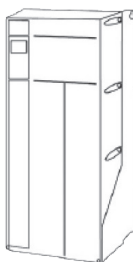
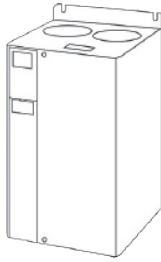
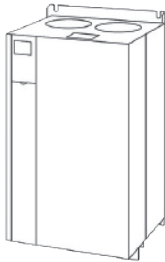
Screw hole c	0.31 (8)	0.31 (8)	0.31 (8)	0.31 (8)	0.32 (8.2)	0.32 (8.2)	0.47 (12)	0.47 (12)	0.31 (8)	—	0.47 (12)	0.47 (12)	—	—
Screw hole d	0.43 (11)	0.43 (11)	0.43 (11)	0.43 (11)	0.47 (12)	0.47 (12)	0.75 (19)	0.75 (19)	0.47 (12)	—	0.75 (19)	0.75 (19)	—	—
Screw hole e	0.22 (5.5)	0.22 (5.5)	0.22 (5.5)	0.22 (5.5)	0.26 (6.5)	0.26 (6.5)	0.35 (9)	0.35 (9)	0.27 (6.8)	0.33 (8.5)	0.35 (9)	0.35 (9)	0.33 (8.5)	0.33 (8.5)
Screw hole f	0.35 (9)	0.35 (9)	0.35 (9)	0.35 (9)	0.24 (6)	0.35 (9)	0.35 (9)	0.35 (9)	0.31 (8)	0.59 (15)	0.39 (9.8)	0.39 (9.8)	0.67 (17)	0.67 (17)
Max. weight - lb (kg)	11 (5)	12 (5.5)	15 (6.8)	16 (7.3)	22 (10)	31 (14.1)	51 (23.1)	60 (27.2)	27 (12.2)	52 (23.6)	100 (45.4)	144 (65.3)	78 (35.4)	111 (50.4)

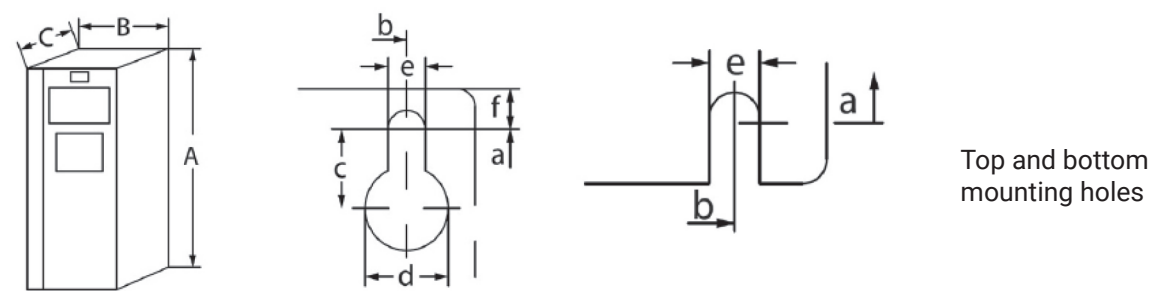
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Dimensions

A2  IP20/21*	A3  IP20/21*	A4  IP55/66	A5  IP55/66	B1  IP21/66	B2  IP21/55/66
B3  IP20/21*	B4  IP20/21*	C1  IP21/55/66	C2  IP21/55/66	C3  IP20/21*	C4  IP20/21*



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