

JOB:

REPRESENTATIVE:

UNIT TAG:

ORDER NO.

DATE:

ENGINEER:

SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



Standard Drive

Bypass Panel

Technologic® Intelligent Pump Controller

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve, Factory configured for sensorless operation (optional). Field configurable for use with a wired transducer.
CONTROL ZONES	Up to 4 zones.
STARTUP GENIE	Quick start for programming hydraulic specific applications and pump protections.
MULTIPUMP	Up to 4 pumps via RS485.
ENCLOSURE	UL Type <input type="checkbox"/> 1 <input type="checkbox"/> 12 <input type="checkbox"/> 3R <input type="checkbox"/> 4X (Bypass has type 1 and 12 only)
POWER DISCONNECT SWITCH	<input type="checkbox"/> Standard Disconnect <input type="checkbox"/> Fused Disconnect Switch (Fused Disconnect Switch is standard for Drive-Bypass and 150-600HP Drive)
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
SCCR	100kA (proper fusing is required)
HARMONIC SUPPRESSION	Integrated non-saturating dual DC link reactors provide better harmonic performance than a 5% AC line reactor.
COOLING	Fan-cooled through temperature controlled and easy replacement.
AMBIENT TEMPERATURE RATING	14°F to 113°F (-10°C to 45° C)
COMMUNICATION PROTOCOLS	BACnet, Modbus RTU, N2 Metasys, FLN, as standard
ANALOG INPUTS	1 configurable for either voltage (0 to 10VDC) or current (0/4 to 20mA) and 1 current (0/4 to 20mA).
ANALOG OUTPUTS	1 (0/4 to 20mA) up to 500 ohm load accurate to 1% of full scale
DIGITAL INPUTS	4 (0 to 24VDC), NPN or PNP, 0 to 24VDC, on 5 msec scan interval. Up to 2 can be configured as pulse
DIGITAL OUTPUTS	2 (0 to 24VDC), 40mA max current, configurable as pulse outputs.
RELAY OUTPUTS	2 programmable, 240VAC or 400VAC up to 2 A
BYPASS OPTION	<input type="checkbox"/> None <input type="checkbox"/> Drive-Bypass, 3 Contactor, 100 KA SCCR, Electronic Control, Fused Disconnect Switch

200 - 240VAC 1 Phase Mains Drive								
HP	Output Current		TYPE 1 Frame	TYPE 12/3R/4X Frame				
1.5	6.6		A5	A5				
2	7.5		B1	B1				
3	10.6		B1	B1				
5	16.7		B1	B1				
7.5	24.2		B1	B1				
10	30.8		B2	B2				
20	59.4		C1	C1				
30	88		C2	C2				
200 - 240 VAC 3 Phase Mains Drive 208 / 230 VAC 3 Phase Mains Drive-Bypass								
HP	Output Current (A)		IP20 Frame	TYPE 1 Frame		TYPE 12 Frame		TYPE 3R/4X Frame
	Drive 200-240 VAC	Drive-Bypass 208/230 VAC	Drive 200/240 VAC	Drive 200-240 VAC	Drive-Bypass 208/230 VAC	Drive 200-240 VAC	Drive-Bypass 208/230 VAC	Drive 200-240 VAC
0.5	N/A	2.4/2.2	N/A	N/A	A2	N/A	A5	N/A
0.75	N/A	3.5/3.2	N/A	N/A	A2	N/A	A5	N/A
1	N/A	4.6/4.2	N/A	N/A	A2	N/A	A5	N/A
1.5	6.6	6.6/6	A2	A2	A2	A5	A5	A5
2	7.5	7.5/6.8	A2	A2	A2	A5	A5	A5
3	10.6	10.6/9.6	A2	A2	A2	A5	A5	A5
5	16.7	16.7/15.2	A3	A3	A3	A5	A5	A5
7.5	24.2	24.2/22	B3	B1	B3	B1	B1	B1
10	30.8	30.8/28	B3	B1	B3	B1	B1	B1
15	46.2	46.2/42	B3	B1	B3	B1	B2	B1
20	59.4	59.4/54.0	B4	B2	B4	B2	B2	B2
25	74.8	74.8/68	B4	C1	C3/B4	C1	C1	C1
30	88	88/80	C3	C1	C3	C1	C1	C1
40	115	114/104	C3	C1	C3	C1	C2	C1
50	143	143/130	C4	C2	C4	C2	C2	C2
60	170	169/154	C4	C2	C4	C2	C2	C2

Technologic Intelligent Pump Controller

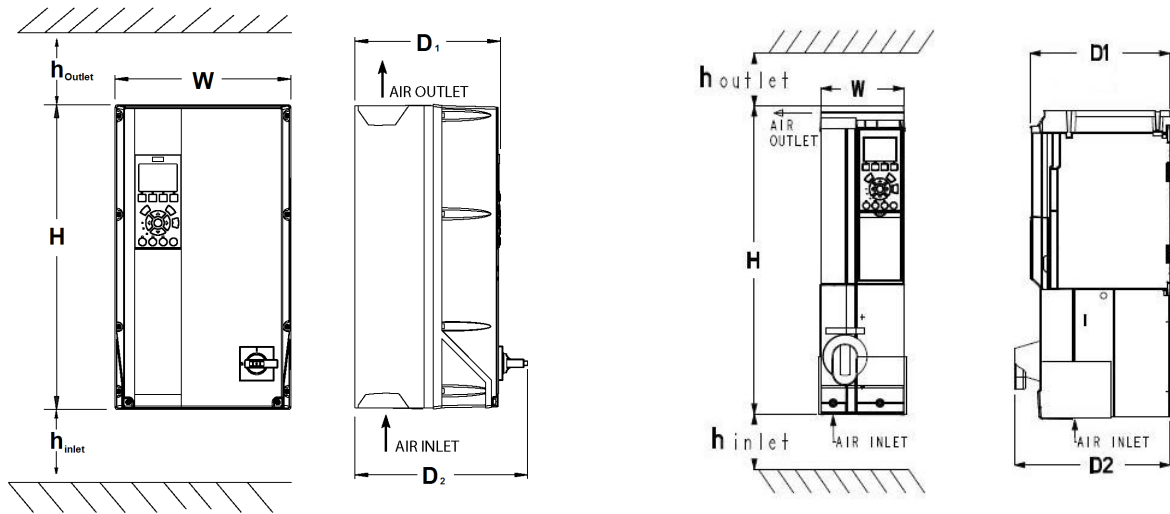
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380 - 480 VAC 3 Phase Mains Drive 460 VAC 3 Phase Mains Drive-Bypass									460 VAC 3 Phase Mains Drive-Bypass 380 - 480 VAC 3 Phase Mains Drive					
HP	Output Current (A)		IP20 Frame	TYPE 1 Frame		TYPE 12 Frame		TYPE 3R/4X Frame	HP	Output Current (A)	E00/IP20 Frame	TYPE 1 Frame	TYPE 12 Frame	TYPE 3R Frame
	Drive 380-480 VAC	Drive-Bypass 460 VAC	Drive 380-480 VAC	Drive 380-480 VAC	Drive-Bypass 460 VAC	Drive 380-480 VAC	Drive-Bypass 460 VAC	Drive 380-480 VAC		Drive 380-480 VAC	Drive 380-480 VAC	Drive 380-480 VAC	Drive 380-480 VAC	Drive 380-480 VAC
0.5	N/A	1.1	N/A	N/A	A2	N/A	A5	N/A	150	190	D3h	D5h	D5h	D1h
0.75	N/A	1.6	N/A	N/A	A2	N/A	A5	N/A	200	240	D3h	D5h	D5h	D1h
1	N/A	2.1	N/A	N/A	A2	N/A	A5	N/A	250	302	D3h	D5h	D5h	D1h
1.5	2.7	3	A2	A2	A2	A5	A5	A5	300	361	D4h	D7h	D7h	D2h
2	3.4	3.4	A2	A2	A2	A5	A5	A5	350	443	D4h	D7h	D7h	D2h
3	4.8	4.8	A2	A2	A2	A5	A5	A5	450	535	D4h	D7h	D7h	D2h
5	8.2	7.6	A2	A2	A2	A5	A5	A5	500	590	E3	E1	E1	N/A
7.5	11	11	A3	A3	A2	A5	A5	A5	550	678	E3	E1	E1	N/A
10	14.5	14	A3	A3	A2	A5	A5	A5	600	730	E3	E1	E1	N/A
15	21	21	B3	B1	B3	B1	B1	B1						
20	27	27	B3	B1	B3	B1	B1	B1						
25	34	34	B3	B1	B3	B1	B1	B1						
30	40	40	B4	B2	B4	B2	B2	B2						
40	52	52	B4	B2	B4	B2	B2	B2						
50	65	65	B4	C1	B4	C1	C1	C1						
60	80	77	C3	C1	C3	C1	C1	C1						
75	105	96	C3	C1	C3	C1	C1	C1						
100	130	124	C4	C2	C4	C2	C2	C2						
125	160	156	C4	C2	C4	C2	C2	C2						

525 - 600 VAC 3 Phase Mains Drive 600 VAC 3 Phase Mains Drive-Bypass								
HP	Output Current (A)		IP20 Frame	TYPE 1 Frame		TYPE 12 Frame		TYPE 3R/4X Frame
	Drive 525-600 VAC	Drive-Bypass 600 VAC	Drive 525-600 VAC	Drive 525-600 VAC	Drive-Bypass 600 VAC	Drive 525-600 VAC	Drive-Bypass 600 VAC	Drive 525-600 VAC
0.5	N/A	0.9	N/A	N/A	A3	N/A	A5	N/A
0.75	N/A	1.3	N/A	N/A	A3	N/A	A5	N/A
1	N/A	1.7	N/A	N/A	A3	N/A	A5	N/A
1.5	2.4	2.4	A3	A3	A3	A5	A5	A5
2	2.7	2.7	A3	A3	A3	A5	A5	A5
3	3.9	3.9	A3	A3	A3	A5	A5	A5
5	6.1	6.1	A3	A3	A3	A5	A5	A5
7.5	9	9	A3	A3	A3	A5	A5	A5
10	11	11	A3	A3	A3	A5	A5	A5
15	18	17	B3	B1	B3	B1	B1	B1
20	22	22	B3	B1	B3	B1	B1	B1
25	27	27	B3	B1	B3	B1	B1	B1
30	34	32	B4	B2	B4	B2	B2	B2
40	41	41	B4	B2	B4	B2	B2	B2
50	52	52	B4	C1	B4	C1	C1	C1
60	62	62	C3	C1	C3	C1	C1	C1
75	83	77	C3	C1	C3	C1	C1	C1
100	100	99	C4	C2	C4	C2	C2	C2
125	131	125	C4	C2	C4	C2	C2	C2

525 - 600 VAC 3 Phase Mains Drive						
HP	Output Current (A)		E20/IP20 Frame	TYPE 1 Frame	TYPE 12 Frame	TYPE 3R Frame
	Drive 525-600 VAC		Drive 525-600 VAC	Drive 525-600 VAC	Drive 525-600 VAC	Drive 525-600 VAC
150	155		D3h	D5h	D5h	D1h
200	192		D3h	D5h	D5h	D1h
250	242		D4h	D7h	D7h	D2h
300	290		D4h	D7h	D7h	D2h
350	344		D4h	D7h	D7h	D2h
400	400		D4h	D7h	D7h	D2h
450	450		E3h	E1h	E1h	NA
500	500		E3h	E1h	E1h	NA
600	570		E3h	E1h	E1h	NA

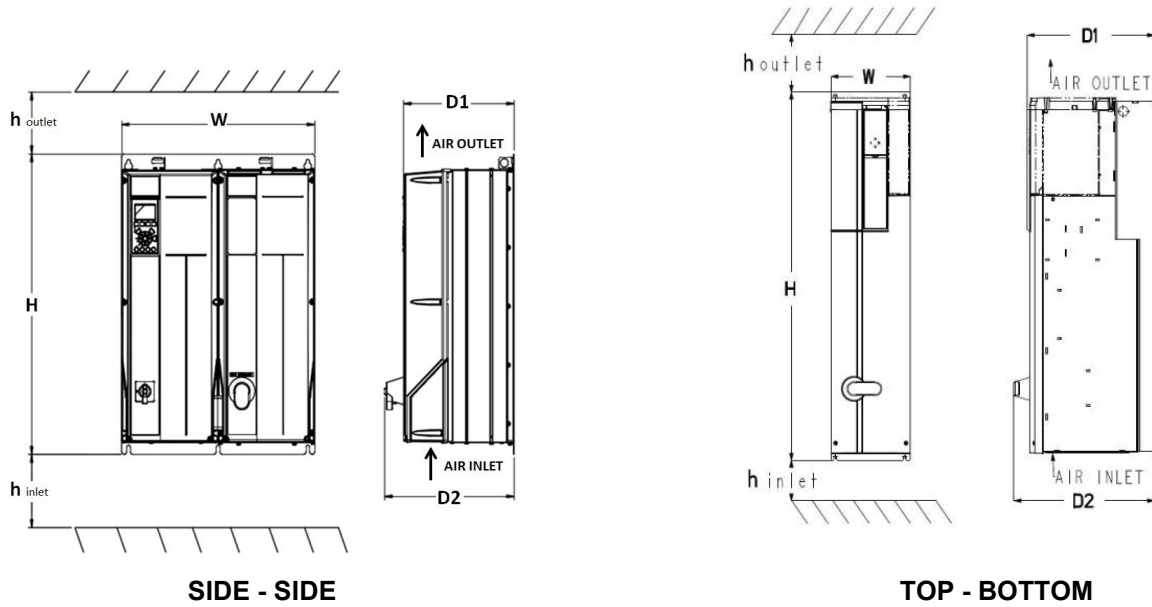
Drive Specification Table



Frame Size	Nominal Weight lbs/Kg	E00/IP20	Enclosure Rating				Dimensions					
			TYPE 1	TYPE 12	TYPE 3R	TYPE 4X	H inches/mm	W inches/mm	D1 inches/mm	D2 inches/mm	h inlet inches/mm	h outlet inches/mm
A2 ¹	10.8/4.9	X					14.63/372	3.54/90	8.66/220	NA	3.94/100	3.94/100
A2 ¹	11.7/5.3		X				14.63/372	3.54/90	8.74/222		3.94/100	3.94/100
A3 ¹	14.6/6.6	X					14.63/372	5.28/133	8.66/220	NA	3.94/100	3.94/100
A3 ¹	15.4/7.0		X				14.63/372	5.28/133	8.74/222		3.94/100	3.94/100
A5	31.3/14.2			X	X	X	16.54/421	9.53/242	7.89/201	9.11/232	3.94/100	3.94/100
B1	51/23		X	X	X	X	19.03/484	9.53/242	10.24/260	11.37/289	7.87/200	7.87/200
B2	60/27		X	X	X	X	25.66/652	9.53/242	10.26/261	11.37/289	7.87/200	7.87/200
B3	27/12.2	X					15.69/399	6.50/165	10.31/262	NA	7.87/200	7.87/200
B4	51.8/23.5	X					20.39/518	9.10/231	9.53/242	NA	7.87/200	7.87/200
C1	99/45		X	X	X	X	26.83/682	12.10/308	12.23/311	13.59/346	7.87/200	7.87/200
C2	143/65		X	X	X	X	30.22/768	14.62/372	13.19/335	14.9/379	8.86/225	8.86/225
C3	77.2/35	X					21.65/550	12.13/308	13.15/334	NA	7.87/200	7.87/200
C4	110.2/50	X					25.98/660	14.57/370	13.15/334	NA	8.85/225	8.85/225

Frame Size	Nominal Weight lbs/Kg	E00/IP20	Enclosure Rating			Dimensions					
			TYPE 1	TYPE 12	TYPE 3R	H inches/mm	W inches/mm	D1 inches/mm	D2 inches/mm	h inlet inches/mm	h outlet inches/mm
D1	229.3/104		X	X	X	47.6/1209	16.54/420	14.96/380	16.4/417	8.9/225	8.9/225
D2	332.9/151		X	X	X	62.56/1589	16.54/420	14.96/380	16.4/417	8.9/225	8.9/225
D3	200.62/91	X				41.18/1046	16.06/408	14.76/375		8.9/225	8.9/225
D4	304.24/138	X				52.24/1327	16.06/408	14.76/375		8.9/225	8.9/225
D5	255/116		X	X		52.13/1324	12.8/325	15/381	16.3/416	8.9/225	8.9/225
D7	440/200		X	X		77.87/1978	16.54/420	15.2/386	16.5/418	8.9/225	8.9/225
E1	650/295		X	X		80.4/2043	23.7/602	20.2/513	22.3/567	NA	8.9/225
E3	600/272	X				62.1/1578	19.9/506	19.0/482	NA	8.9/225	8.9/225

Bypass Specification Table



Frame Data	Nominal Weight lbs/Kg	Temperature Rating (°F/°C)		Enclosure Rating		Dimensions						
		NEMA 1	NEMA 12	NEMA 1	NEMA 12	H inches/mm	W inches/mm	D1 inches/mm	D2 inches/mm	h inlet inches/mm	h outlet inches/mm	Configuration
A2 ¹	35/16	113/45		X		31.74/806	7.63/194	8.75/222	9.73/247	3.94/100	3.94/100	Top-Bottom
A3 ¹	35/16	113/45		X		31.74/806	7.63/194	8.75/222	9.73/247	3.94/100	3.94/100	Top-Bottom
A5	55/25		104/40		X	18.86/479	19.18/487	8.55/217	10.30/262	3.94/100	3.94/100	Side-Side
B1	84/38.1		104/40		X	21.48/546	19.09/485	10.84/275	12.86/327	3.94/100	3.94/100	Side-Side
B2	105/48		104/40		X	28.18/716	19.09/485	10.86/276	12.81/325	3.94/100	3.94/100	Side-Side
B3 ¹	84/38	104/40		X		41.77/1061	9.11/231	14.69/373	15.94/405	7.87/200	2.00/51	Top-Bottom
B4	106/48	104/40		X		43.30/1100	9.77/248	16.30/414	17.70/450	7.87/200	2.00/51	Top-Bottom
C1	145/66		104/40		X	29.94/761	24.37/619	12.74/324	14.87/378	3.94/100	3.94/100	Side-Side
C2	190/86		104/40		X	33.49/851	29.24/743	13.72/349	16.22/412	8.86/225	8.86/225	Side-Side
C3	167/76	104/40		X		54.38/1381	12.69/322	16.59/422	17.99/457	7.87/200	2.00/51	Top-Bottom
C4	248/112	104/40		X		59.64/1515	15.13/384	16.59/422	18.01/458	8.86/225	2.00/51	Top-Bottom

Note: A2, A3 and B3 frames require a minimum of 1.5 inch (38.1mm) clearance on either side for proper air flow and cooling.



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