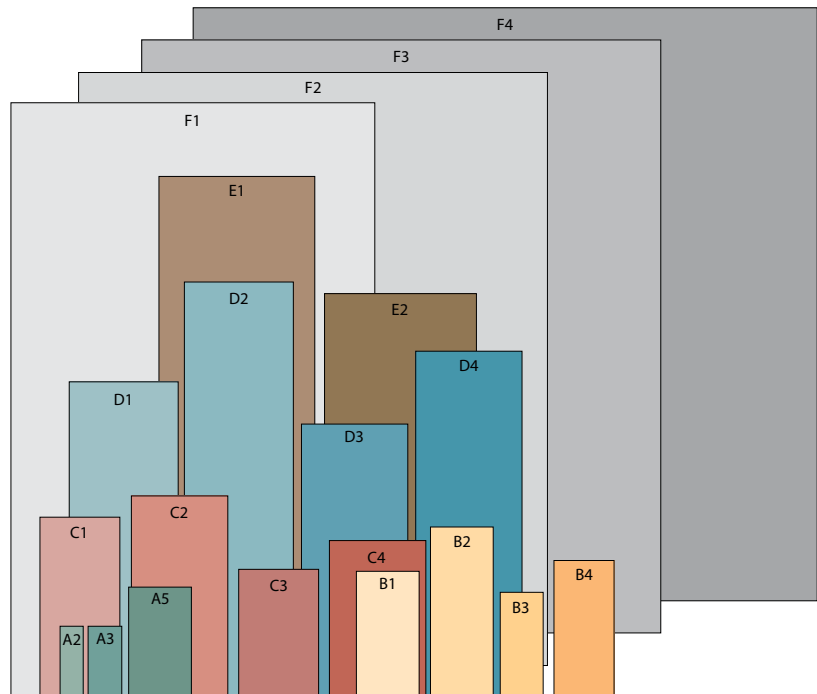


# VLT® AQUA Drive

VLT AQUA Drives are available in numerous enclosure frame sizes illustrated at right and in several power ranges shown in the charts on the following pages.



## 200 – 240 VAC 1Ø

HP	Current [A]				Est. Power Loss @ Rated Max. Load (W)	Enclosure Rating/Frame Size <sup>(1)</sup>		
	Output		Input			NEMA 1 IP21	NEMA 12 IP55	IP66
	Cont.	Int.	Cont.	Int.				
7-1/2	24.2	26.6	46.0	50.6	110	B1	B1	B1
10	30.8	33.4	59.0	64.9	150	B2	B2	B2
20	59.4	65.3	111.0	122.1	300	C1	C1	C1
30	88.0	96.8	172.0	189.2	440	C2	C2	C2

## 200 – 240 VAC 3Ø

HP	Current [A]				Est. Power Loss @ Rated Max. Load (W)	Enclosure Rating/Frame Size <sup>(1)</sup>			
	Output		Input			Protected Chassis IP20	NEMA 1 IP21	NEMA 12 IP55	IP66
	Cont.	Int.	Cont.	Int.					
1/3	1.8	2.9	1.6	2.6	21				
1/2	2.4	3.8	2.2	3.5	29				
3/4	3.5	5.6	3.2	5.1	42				
1	4.6	7.4	4.1	6.6	54	A2	A2	A5	
1-1/2	6.6	7.3	5.9	6.5	63				
2	7.5	8.3	6.8	7.5	82				
3	10.6	11.7	9.5	10.5	116				
4	12.5	13.8	11.3	12.4	155				
5	16.7	18.4	15.0	16.5	185	A3	A3	A5	
7-1/2	24.2	26.6	22.0	24.2	269				
10	30.8	33.9	28.0	30.8	310	B3	B1	B1	
15	46.2	50.8	42.0	46.2	447				
20	59.4	65.3	54.0	59.4	602	B4	B2	B2	
25	74.8	82.3	68.0	74.8	737				
30	88.0	96.8	88.0	88.0	845	C3	C1	C1	
40	115	127	104	114	1140				
50	143	157	130	143	1353	C4	C2	C2	
60	170	187	154	169	1636				

Note: 110% Torque Overload is rated for 60 seconds.

<sup>(1)</sup> See page 63 for the index to dimension drawings.

# Performance Data

380 – 480 VAC 3Ø

HP	Current [A]				Est. Power Loss @ Rated Max. Load (W)	Enclosure Rating/Frame Size <sup>(1)</sup>			
	Output		Input			Protected Chassis IP20	NEMA 1 IP21	NEMA 12 IP55	IP66
	Cont.	Int.	Cont.	Int.					
1/2	1.2	1.9	1.0	1.6	35				
3/4	1.6	2.6	1.4	2.2	42				
1	2.1	3.4	1.9	3.0	46				
1-1/2	2.7	3.0	2.7	4.1	58				
2	3.4	3.7	3.1	3.4	62	A2	A2	A5	A5
3	4.8	5.3	4.3	4.7	88				
4	6.3	6.9	5.7	6.3	116				
5	8.2	9.0	7.4	8.1	124				
7-1/2	11.0	12.1	9.9	10.9	187				
10	14.5	15.4	13.0	14.3	255	A3	A3	A5	A5
15	21	23.1	19	20.9	278				
20	27	29.7	25	27.5	392	B3	B1	B1	B1
25	34	37.4	31	34.1	465				
30	40	44	36	39.6	525				
40	52	61.6	47	51.7	739	B4	B2	B2	B2
50	65	71.5	59	64.9	698				
60	80	88	73	80.3	843	C3	C1	C1	C1
75	105	116	95	105	1083				
100	130	143	118	130	1384	C4	C2	C2	C2
125	160	176	145	160	1474				

HP	Current [A]				Est. Power Loss @ Rated Max. Load (W)	Enclosure Rating/Frame Size <sup>(1)</sup>		
	Output		Input			Chassis IP00	NEMA 1 IP21	NEMA 12 IP54
	Cont.	Int.	Cont.	Int.				
150	190	209	185	185	3234	D3	D1	D1
200	240	264	231	231	3782			
250	302	332	291	291	4213			
300	361	397	348	348	5119	D4	D2	D2
350	443	487	427	427	5893			
450	540	594	531	531	7630			
500	590	649	580	580	7701			
550	678	746	667	667	8879	E2	E1	E1
600	730	803	718	718	9428			
650	780	858	759	759	<sup>(2)</sup>			
750	890	979	867	867	<sup>(2)</sup>			
900	1050	1155	1022	1022	<sup>(2)</sup>	—	F1 or F3	F1 or F3
1000	1160	1276	1129	1129	<sup>(2)</sup>			
1200	1380	1518	1344	1344	<sup>(2)</sup>			
1350	1530	1683	1490	1490	<sup>(2)</sup>	—	F2 or F4	F2 or F4

Note: 110% Torque Overload is rated for 60 seconds.

<sup>(1)</sup> See page 63 for the index to dimension drawings.

<sup>(2)</sup> Contact Danfoss.

# VLT® AQUA Drive

525 – 600 VAC 3Ø

HP	Current [A]				Est. Power Loss @ Rated Max. Load (W)	Enclosure Rating/Frame Size <sup>(1)</sup>			
	Output		Input			Protected Chassis IP20	NEMA 1 IP21	NEMA 12 IP55	IP66
	Cont.	Int.	Cont.	Int.					
<b>1</b>	1.7		1.7		35				
<b>1-1/2</b>	2.4	2.6	2.4	2.7	50				
<b>2</b>	2.7	3.0	2.7	3.0	65	A2	A2	A5	A5
<b>3</b>	3.9	4.3	4.1	4.5	92				
<b>4</b>	4.9	5.4	5.2	5.7	122				
<b>5</b>	6.1	6.7	5.8	6.4	145				
<b>7-1/2</b>	9.0	9.9	8.6	9.5	195	A3	A3	A5	A5
<b>10</b>	11.0	12.1	10.4	11.5	261				
<b>15</b>	18	20	17.2	19	300				
<b>20</b>	22	24	20.9	23	400	B3	B1	B1	B1
<b>25</b>	27	30	25.4	28	475				
<b>30</b>	34	37	32.7	36	525				
<b>40</b>	41	45	39	43	700	B4	B2	B2	B2
<b>50</b>	52	57	49	54	750				
<b>60</b>	62	68	59	65	850				
<b>75</b>	83	91	78.9	87	1100	C3	C1	C1	C1
<b>100</b>	100	110	95.3	105	1400				
<b>125</b>	131	144	124.3	137	1500				

Note: 110% Torque Overload is rated for 60 seconds.

<sup>(1)</sup> See page 63 for the index to dimension drawings.

# Performance Data

525 – 690 VAC 3Ø

HP	kW	Current [A] (@ 575V Nominal)		Est. Power Loss @ Rated Max. Load (W)	Enclosure Rating/Frame Size <sup>(2)</sup>			
		Output Cont.	Input Cont.		Chassis IP00	NEMA 1 IP21	NEMA 12 IP54	
50	37	54	59	58	1458			
60	45	73	80	74	1717			
75	55	86	95	87	1913			
100	75	108	119	106	2262	D3	D1	D1
125	90	144	131	124	2662			
150	110	155	171	151	3114			
200	132	192	211	189	3612			
250	160	242	266	234	4292			
300	200	290	319	286	5156	D4	D2	D2
350	250	344	378	339	5821			
400	315	400	440	390	6149			
450	355	450	495	434	6449			
500	400	500	550	482	7249	E2	E1	E1
600	500	570	627	549	8727			
650	560	630	693	607	9673			
750	560	730	803	711	<sup>(3)</sup>			
950	670	850	935	828	<sup>(3)</sup>	F1 or F3	F1 or F3	F1 or F3
1050	750	945	1040	920	<sup>(3)</sup>			
1150	850	1060	1166	1032	<sup>(3)</sup>	F2 or F4	F2 or F4	F2 or F4
1350	1000	1260	1386	1227	<sup>(3)</sup>			

Note: 110% Torque Overload is rated for 60 seconds.

<sup>(1)</sup> See below for the index to dimension drawings.

<sup>(2)</sup> Contact Danfoss.

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A3	Protected Chassis/IP20	76-79
	NEMA 1/ IP21	80-83
	Tier 2	84-85
	Tier 3	86-87
A5	NEMA 12/ IP55/IP66	88
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	Tier 3	90
B1	NEMA 12/ IP55/IP66	91
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	Tier 3	93
B2	NEMA 12/ IP55/IP66	94
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B3	Protected Chassis/IP20	97-100
B4	Protected Chassis/IP20	101

Frame Size	Enclosure Rating	Page
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D1	NEMA 12/ IP54	110
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	Tier 3	112
D2	NEMA 12/ IP54	113
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	Tier 3	115
D3	Chassis/IP00	116
D4	Chassis/IP00	117
E1	NEMA 12/ IP54	118
E2	Chassis/IP00	119
F1	NEMA 12/ IP54	120
F2	NEMA 12/ IP54	121
F3	NEMA 12/ IP54	122
F4	NEMA 12/ IP54	123