

Hybrid Drives™

Digital AC Drives with Analog Interface



Enclosure types: Chassis / IP 20, NEMA 1 / IP 20 & 50 and NEMA 4X / IP 65

The NEMA 4X / IP 65 drives are housed in a rugged die-cast aluminum enclosure with a hinged cover.

- Horsepower 1/8 to 5 HP
- 115/230/460 VAC-50/60 Hz-1ph & 3ph Input
- Output 230/460 VAC-3ph
- 200% Starting Torque
- FDA Approved Finish*



Benefits

GFCI Compatible

- Allows equipment to operate with Ground Fault Circuit Interruption circuit breakers or outlets. (Factory programming required.)

Saves Time

- Easy to install and simple to operate.
- Does not require commissioning.
- Up and running in less than 10 minutes.

Motors Last Longer

- Proprietary current limit software: Provides overload protection, prevents motor burnout and eliminates nuisance tripping. UL® approved as electronic overload protector for motors.

Energy Saving

- Uses only the power the application requires.
- Replacing constant speed with variable speed will significantly reduce energy costs.

Customization for OEM's

- When an off the shelf drive does not meet your needs, we will work with you to provide a custom drive solution, ready to use, out-of-the-box.
- Customization includes: Pre-calibrating or programming of a stock control, adding a custom label or branding, custom software, PLC functions or designing a new control.

Electrical Ratings

	Maximum HP		AC Line Voltage (50/60 Hz)	Phase	Catalog Number	Model No.	Max. AC Line Current (Amps AC)	Voltage Range (Volts AC)	Max. Load Current (Amps/Phase)	Net Weight		Dim. Ref. Code
	HP	kW								Lbs.	kg	
Chassis, IP 20	1/2	0.37	115	1	USVF13	U9957	9.6	0 – 208/230	2.4	1.3	0.6	A
	1	0.75	115	1	USVF14	U9977	14	0 – 208/230	4.0	2.2	1.0	B
	1/2	0.37	208/230	1	USVF23	U9958	6.0	0 – 208/230	2.4	1.3	0.6	A
	1	0.75	208/230	1	USVF24	U9978	10	0 – 208/230	4.0	2.2	1.0	B
	1/4	0.18	115	1	USVF22D*	U9572	6.0	0 – 208/230	1.5	1.3	0.6	A
			208/230				3.8					
	1/2	0.37	115	1	USVF23D*	U9959	9.7	0 – 208/230	2.4	1.3	0.6	A
			208/230				6.0					
	1	0.75	115	1	USVF24D*	U9979	14	0 – 208/230	4.0	2.2	1.0	B
			208/230				10					
	1½	1.13	115	1	USVF26D*	U9496	22	0 – 208/230	5.5	2.9	1.3	D
			208/230				14					
	1/2	0.37	208/230	3	USVF23P	U9676	3.1	0 – 208/230	2.4	1.1	0.5	A
	1	0.75	208/230	3	USVF24P	U9677	5.2	0 – 208/230	4.0	2.2	1.0	B
	2	1.5	208/230	1	USVF27	U9591	17	0 – 208/230	6.7	4.1	1.9	E
				3			8.7					
	2	1.5	208/230	1	USVF29	U9593	22.5	0 – 208/230	9.0	4.6	2.1	E
	3	2.25		3			11.7					
	1	0.75	400/460	3	USVF42**	U9645	2.6	0 – 400/460	2.0	2.8	1.3	F
	3	2.25	400/460	3	USVF45**	U9590	5.3	0 – 400/460	4.6	4.1	1.9	G
5	3.75	400/460	3	USVF48**	U9592	11	0 – 400/460	8.3	4.6	2.1	G	

*Models USVF22D, 23D, 24D and 26D are available in single voltage AC line input (115 or 208/230 VAC) and also contain a builtin Motor Filter to eliminate winding and bearing failures.

**Contains SIVFR signal input isolation and Run/Fault output relay.

Electrical Ratings

NEMA 1, IP 20	1/4	0.19	115	1	USWA22D	U9926	5.2	0 – 208/230	1.3	1.58	0.72	H
			208/230				3.8		1.5			
	1/2	0.37	115	1	USWA23D	U9946	8.8	0 – 208/230	2.2	1.58	0.72	H
			208/230				6.0		2.4			

Model USWA22D (IP 50), model USWA23D (IP 20). Lower horsepower models available (USWA21D, 2P3D, 2P6D).

NEMA 1, IP 50	1	0.75	115	1	USMA24D	U9533	14.4	0 – 208/230	3.6	2.42	1.09	I
			208/230				9.5					
NEMA 1, IP 50	1	0.75	115	1	USMA24DF	U9534	9.5	0 – 208/230	3.6	2.48	1.12	I
			208/230									

NEMA 4X, IP 65	1	0.75	115	1	USAC24D	U9987	14.4	0 – 208/230	3.6	5.9	2.7	J
			208/230				8.1					
	11/2	1.13	115	1	USAC27D	U9520	22	0 – 208/230	5.5	10.3	4.7	K
	2	1.5	208/230				16.7		6.7			
	3	2.25	208/230	1	USAC29 (1P)	U10001	16.7	0 – 208/230	9.0	10.3	4.7	K
	2	1.5	208/230	1	USAC29	U9528	20.5	0 – 208/230	6.7	10.3	4.7	K
	3	2.25		3			11.7		9.0			
	3	2.25	400/460	3	USAC45	U9530	7.2	0 – 400/460	5.5	10.3	4.7	K
	5	3.75	400/460	3	USAC48	U9540	11	0 – 400/460	8.3	10.3	4.7	K
	5	3.75	208/230	3	USAC217	U8868	22.1	0 – 208/230	17	22	10	L
10	7.5	400/460	3	USAC416	U8870	20.8	0 – 400/460	16	22	10	L	

*FDA approved (white cases only).

Dimensions (W X L X D)

Ref. Code	Inches	Millimeters
A	3.9 x 4.3 x 2.75	99 x 109 x 70
B	4.7 x 4.3 x 5	119 x 109 x 127
C	3.9 x 4.3 x 2	99 x 109 x 51
D	4.7 x 5.7 x 4.5	119 x 145 x 114

Ref. Code	Inches	Millimeters
E	4.7 x 7.5 x 4.45	119 x 191 x 113
F	4.1 x 9.31 x 2.75	103 x 236 x 70
G	4.7 x 8.75 x 4.45	119 x 222 x 113
H	3.92 x 6.06 x 3.65	102 x 154 x 92.7

Ref. Code	Inches	Millimeters
I	4.95 x 7 x 4.15	126 x 178 x 105
J	5.51 x 9.53 x 5.86	140 x 242 x 149
K	7.55 x 9.80 x 7.25	192 x 249 x 184
L	13.8 x 10.3 x 8.25	351 x 262 x 210

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