

SmartVFD HVAC

SmartVFD HVAC



The Honeywell SmartVFD HVAC and BYPASS are designed specifically for commercial buildings to deliver the energy savings

Drive Family: SmartVFD HVAC
Acceleration time: 0.1 - 3000 sec
Deceleration time: .1 - 3000 sec
Analog Current Input: 0 (4) - 20 mA, 250 ohm differential
Analog Voltage Input: 0 - 10 Vdc, 200K ohm
Analog Current Output: 0 (4) - 20 mA, max 500 ohm
Digital Output: Open collector, max. load 48V/50mA
Continuous Output Current: overload 1.5 x High overload current (1min/10min); overload 1.1 x Low overload current (1min/10min)
Relay Output: Max. switching load: 250Vac/2A or 250Vdc/0,4A
Reference Output Voltage: Maximum Load 10mA

that building owners and facility managers need. The SmartVFD HVAC makes installation and commissioning easy for you and energy savings easy for your customers.

- Start-up Wizards—All you have to do is tell the VFD whether you have a pump or a fan, enter nominal motor information, and you are up and running
- Graphic Interface—The easy-to-use keypad and interface deliver menu-driven programming and monitoring for fast, uniform commissioning. It's also easy for the building owner or manager to learn and use, helping to reduce service calls. Plus, a manual is built into the keypad for easy access when needed
- Built-in Communications—With BACnet®, N2 and Modbus built in, your customers will enjoy a lower total installed cost and reliable communications with the building management system
- PC Software Wizards—Commissioning, programming and troubleshooting are all a snap thanks to these guided Startup and PID wizards
- Built-in PLC—Another reason why SmartVFD HVAC is a great value for your customer, the built-in PLC eliminates the need for an expensive external controller
- DC Choke for harmonic protection
- Standard RFI Filter—Ensures that EMC/RFI requirements are met
- Bypass Options—Meets specifications and system critical applications with a comprehensive bypass offering
- Real-Time Clock—Battery included
- Fire Mode for safe operation
- Motor Switch Ride-Through—easy, fault-free maintenance

Auxiliary Voltage: ± 20%, max. load 50 mA
Starting Torque: Drive Input Disconnect: 510 x IN, 2 secs in every 20 sec period
Frequency (Hz): 0 Hz to 320 Hz
Operating Temperature: 14 to 114 F (-10 to 50 C)
Type of Enclosure: NEMA 1
Type of RFI Filter: EMC Filter
Configuration: Drive alone
Auto Bypass: No
Drive Input Disconnect: No

Product Number	Voltage	Horse-power	Frame Type	Type of Enclosure	Current Ratings	Dimensions, Approximate		Weight	
						(inch)	(mm)	(lb)	(kg)
HVFDSD3A0007G100/U	208 Vac/230 Vac	0.75 HP	4	NEMA 1	3.7A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0007G200/U	208 Vac/230 Vac	0.75 HP	4	NEMA 12	3.7A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0007G300/U	208 Vac/230 Vac	0.75 HP	4	NEMA 3R	3.7A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFDSD3A0010G100/U	208 Vac/230 Vac	1 HP	4	NEMA 1	4.8A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0010G200/U	208 Vac/230 Vac	1 HP	4	NEMA 12	4.8A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0010G300/U	208 Vac/230 Vac	1 HP	4	NEMA 3R	4.8A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFDSD3A0015G100/U	208 Vac/230 Vac	1.5 HP	4	NEMA 1	6.6A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0015G200/U	208 Vac/230 Vac	1.5 HP	4	NEMA 12	6.6A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0015G300/U	208 Vac/230 Vac	1.5 HP	4	NEMA 3R	6.6A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFDSD3A0020G100/U	208 Vac/230 Vac	2 HP	4	NEMA 1	8A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0020G200/U	208 Vac/230 Vac	2 HP	4	NEMA 12	8A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0020G300/U	208 Vac/230 Vac	2 HP	4	NEMA 3R	8A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFDSD3A0030G100/U	208 Vac/230 Vac	3 HP	4	NEMA 1	11A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0030G200/U	208 Vac/230 Vac	3 HP	4	NEMA 12	11A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFDSD3A0030G300/U	208 Vac/230 Vac	3 HP	4	NEMA 3R	11A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFDSD3A0050G100/U	208 Vac/230 Vac	5 HP	5	NEMA 1	18A	5.7 x 16.5 x 8.4	144.78 x 419.1 x213.36	22 lb	9.97 kg
HVFDSD3A0050G200/U	208 Vac/230 Vac	5 HP	5	NEMA 12	18A	5.7 x 16.5 x 8.4	144.78 x 419.1 x213.36	22 lb	9.97 kg
HVFDSD3A0050G300/U	208 Vac/230 Vac	5 HP	5	NEMA 3R	18A	20.5 x 24 x 10	520.7 x 609.6 x 254	58 lb	26.3 kg
HVFDSD3A0075G100/U	208 Vac/230 Vac	7.5 HP	5	NEMA 1	24A	5.7 x 16.5 x 8.4	144.78 x 419.1 x213.36	22 lb	9.97 kg
HVFDSD3A0075G200/U	208 Vac/230 Vac	7.5 HP	5	NEMA 12	24A	5.7 x 16.5 x 8.4	144.78 x 419.1 x213.36	22 lb	9.97 kg
HVFDSD3A0075G300/U	208 Vac/230 Vac	7.5 HP	5	NEMA 3R	24A	20.5 x 24 x 10	520.7 x 609.6 x 254	58 lb	26.3 KG
HVFDSD3A0100G100/U	208 Vac/230 Vac	10 HP	5	NEMA 1	31A	5.7 x 16.5 x 8.4	144.78 x 419.1 x213.36	22 lb	9.97 kg
HVFDSD3A0100G200/U	208 Vac/230 Vac	10 HP	5	NEMA 12	31A	5.7 x 16.5 x 8.4	144.78 x 419.1 x 213.36	22 lb	9.97 kg

SmartVFD HVAC

Product Number	Voltage	Horse-power	Frame Type	Type of Enclosure	Current Ratings	Dimensions, Approximate		Weight	
						(inch)	(mm)	(lb)	(kg)
HVFSD3A0100G300/U	208 Vac/230 Vac	10 HP	5	NEMA 3R	31A	20.5 x 24 x 10	520.7 x 609.6 x 254	58 lb	26.3 kg
HVFSD3A0150G100/U	208 Vac/230 Vac	15 HP	6	NEMA 1	48A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3A0150G200/U	208 Vac/230 Vac	15 HP	6	NEMA 12	48A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3A0150G300/U	208 Vac/230 Vac	15 HP	6	NEMA 3R	48A	28.5 x 36 x 10	723.9 x 914.4 x 254	80 lb	36.3 kg
HVFSD3A0200G100/U	208 Vac/230 Vac	20 HP	6	NEMA 1	62A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3A0200G200/U	208 Vac/230 Vac	20 HP	6	NEMA 12	62A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3A0200G300/U	208 Vac/230 Vac	20 HP	6	NEMA 3R	62A	28.5 x 36 x 10	723.9 x 914.4 x 254	80 lb	36.3 kg
HVFSD3A0250G100/U	208 Vac/230 Vac	25 HP	7	NEMA 1	75A	9.3 x 26 x 10.2	236 x 660 x259	82.7 b	37.5 kg
HVFSD3A0250G200/U	208 Vac/230 Vac	25 HP	7	NEMA 12	75A	9.3 x 26 x 10.2	236 x 660 x259	82.7 b	37.5 kg
HVFSD3A0250G300/U	208 Vac/230 Vac	25 HP	7	NEMA 3R	75A	28.5 x 48 x 12	723.9 x 1219.2x 304.8	130 b	59 kg
HVFSD3A0300G100/U	208 Vac/230 Vac	30 HP	7	NEMA 1	88A	9.3 x 26 x 10.2	236 x 660 x259	82.7 b	37.5 kg
HVFSD3A0300G200/U	208 Vac/230 Vac	30 HP	7	NEMA 12	88A	9.3 x 26 x 10.2	236 x 660 x259	82.7 b	37.5 kg
HVFSD3A0300G300/U	208 Vac/230 Vac	30 HP	7	NEMA 3R	88A	28.5 x 48 x 12	723.9 x 1219.2x 304.8	130 b	59 kg
HVFSD3A0400G100/U	208 Vac/230 Vac	40 HP	7	NEMA 1	105A	9.3 x 26 x 10.2	236 x 660 x259	82.7 b	37.5 kg
HVFSD3A0400G200/U	208 Vac/230 Vac	40 HP	7	NEMA 12	105A	9.3 x 26 x 10.2	236 x 660 x259	82.7 b	37.5 kg
HVFSD3A0400G300/U	208 Vac/230 Vac	40 HP	7	NEMA 3R	105A	28.5 x 48 x 12	723.9 x 1219.2x 304.8	130 b	59 kg
HVFSD3A0500G100/U	208 Vac/230 Vac	50 HP	8	NEMA 1	140 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A0500G200/U	208 Vac/230 Vac	50 HP	8	NEMA 12	140 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A0500G300/U	208 Vac/230 Vac	50 HP	8	NEMA 3R	140 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A0600G100/U	208 Vac/230 Vac	60 HP	8	NEMA 1	170 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A0600G200/U	208 Vac/230 Vac	60 HP	8	NEMA 12	170 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A0600G300/U	208 Vac/230 Vac	60 HP	8	NEMA 3R	170 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A0750G100/U	208 Vac/230 Vac	75 HP	8	NEMA 1	205 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A0750G200/U	208 Vac/230 Vac	75 HP	8	NEMA 12	205 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A0750G300/U	208 Vac/230 Vac	75 HP	8	NEMA 3R	205 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3A1000G100/U	208 Vac/230 Vac	100 HP	9	NEMA 1	261 A	18.9 x 45.3 x 14.4	480 x 1150 x 366	238.1 lb	108 kg
HVFSD3A1000G200/U	208 Vac/230 Vac	100 HP	9	NEMA 12	261 A	18.9 x 45.3 x 14.4	480 x 1150 x 366	238.1 lb	108 Kg
HVFSD3A1250G100/U	208 Vac/230 Vac	125 HP	9	NEMA 1	310 A	18.9 x 45.3 x 14.4	480 x 1150 x 366	238.1 lb	108 Kg
HVFSD3A1250G200/U	208 Vac/230 Vac	125 HP	9	NEMA 12	310 A	18.9 x 45.3 x 14.4	480 x 1150 x 366	238.1 lb	108 Kg
HVFSD3C0015G100/U	460 Vac	1.5 HP	4	NEMA 1	3.4A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0015G200/U	460 Vac	1.5 HP	4	NEMA 12	3.4A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0015G300/U	460 Vac	1.5 HP	4	NEMA 3R	3.4A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFSD3C0020G100/U	460 Vac	2 HP	4	NEMA 1	4.8A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0020G200/U	460 Vac	2 HP	4	NEMA 12	4.8A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0020G300/U	460 Vac	2 HP	4	NEMA 3R	4.8A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFSD3C0030G100/U	460 Vac	3 HP	4	NEMA 1	5.6A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0030G200/U	460 Vac	3 HP	4	NEMA 12	5.6A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0030G300/U	460 Vac	3 HP	4	NEMA 3R	5.6A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFSD3C0040G100/U	460 Vac	4 HP	4	NEMA 1	8A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0040G200/U	460 Vac	4 HP	4	NEMA 12	8A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0040G300/U	460 Vac	4 HP	4	NEMA 3R	8A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFSD3C0050G100/U	460 Vac	5 HP	4	NEMA 1	9.6A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0050G200/U	460 Vac	5 HP	4	NEMA 12	9.6A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0050G300/U	460 Vac	5 HP	4	NEMA 3R	9.6A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFSD3C0075G100/U	460 Vac	7.5 HP	4	NEMA 1	12A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0075G200/U	460 Vac	7.5 HP	4	NEMA 12	12A	5 x 12.9 x 7.5	127 x 327.66 x190.5	13.2 b	5.98 kg
HVFSD3C0075G300/U	460 Vac	7.5 HP	4	NEMA 3R	12A	20.5 x 20 x 10	520.7 x 508 x 254	39 lb	17.7 kg
HVFSD3C0100G100/U	460 Vac	10 HP	5	NEMA 1	16A	5.7 x 16.5 x 8.4	144.78 x 419.1 x213.36	22 lb	9.97 kg
HVFSD3C0100G200/U	460 Vac	10 HP	5	NEMA 12	16A	5.7 x 16.5 x 8.4	144.78 x 419.1 x213.36	22 lb	9.97 kg
HVFSD3C0100G300/U	460 Vac	10 HP	5	NEMA 3R	16A	20.5 x 24 x 10	520.7 x 609.6 x 254	58 lb	26.3 kg

Commercial Components

SmartVFD HVAC

Product Number	Voltage	Horse-power	Frame Type	Type of Enclosure	Current Ratings	Dimensions, Approximate		Weight	
						(inch)	(mm)	(lb)	(kg)
HVFSD3C0150G100/U	460 Vac	15 HP	5	NEMA 1	23A	5.7 x 16.5 x 8.4	144.78 x 419.1 x 213.36	22 lb	9.97 kg
HVFSD3C0150G200/U	460 Vac	15 HP	5	NEMA 12	23A	5.7 x 16.5 x 8.4	144.78 x 419.1 x 213.36	22 lb	9.97 kg
HVFSD3C0150G300/U	460 Vac	15 HP	5	NEMA 3R	23A	20.5 x 24 x 10	520.7 x 609.6 x 254	58 lb	26.3 kg
HVFSD3C0200G100/U	460 Vac	20 HP	5	NEMA 1	31A	5.7 x 16.5 x 8.4	144.78 x 419.1 x 213.36	22 lb	9.97 kg
HVFSD3C0200G200/U	460 Vac	20 HP	5	NEMA 12	31A	5.7 x 16.5 x 8.4	144.78 x 419.1 x 213.36	22 lb	9.97 kg
HVFSD3C0200G300/U	460 Vac	20 HP	5	NEMA 3R	31A	20.5 x 24 x 10.5	520.7 x 609.6 x 254	58 lb	26.3 kg
HVFSD3C0250G100/U	460 Vac	25 HP	6	NEMA 1	38A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3C0250G200/U	460 Vac	25 HP	6	NEMA 12	38A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3C0250G300/U	460 Vac	25 HP	6	NEMA 3R	38A	28.5 x 36 x 10.5	723.9 x 914.4 x 254	80 lb	36.3 kg
HVFSD3C0300G100/U	460 Vac	30 HP	6	NEMA 1	46A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3C0300G200/U	460 Vac	30 HP	6	NEMA 12	46A	7.7 x 21.9 x 9	196 x 556 x 229	44 lb	20 kg
HVFSD3C0300G300/U	460 Vac	30 HP	6	NEMA 3R	46A	28.5 x 36 x 10.5	723.9 x 914.4 x 254	80 lb	36.3 kg
HVFSD3C0400G100/U	460 Vac	40 HP	6	NEMA 1	61A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3C0400G200/U	460 Vac	40 HP	6	NEMA 12	61A	7.7 x 21.9 x 9	196 x 556 x 229	44.1 b	20 kg
HVFSD3C0400G300/U	460 Vac	40 HP	6	NEMA 3R	61A	28.5 x 36 x 10.5	723.9 x 914.4 x 254	80 lb	36.3 kg
HVFSD3C0500G100/U	460 Vac	50 HP	7	NEMA 1	72A	9.3 x 26 x 10.2	236 x 660 x 259	82.7 b	37.5 kg
HVFSD3C0500G200/U	460 Vac	50 HP	7	NEMA 12	72A	9.3 x 26 x 10.2	236 x 660 x 259	82.7 b	37.5 kg
HVFSD3C0500G300/U	460 Vac	50 HP	7	NEMA 3R	72A	28.5 x 48 x 12.5	723.9 x 1219.2x 304.8	130 b	59 kg
HVFSD3C0600G100/U	460 Vac	60 HP	7	NEMA 1	87A	9.3 x 26 x 10.2	236 x 660 x 259	82.7 b	37.5 kg
HVFSD3C0600G200/U	460 Vac	60 HP	7	NEMA 12	87A	9.3 x 26 x 10.2	236 x 660 x 259	82.7 b	37.5 kg
HVFSD3C0600G300/U	460 Vac	60 HP	7	NEMA 3R	87A	28.5 x 48 x 12.5	723.9 x 1219.2x 304.8	130 b	59 kg
HVFSD3C0750G100/U	460 Vac	75 HP	7	NEMA 1	105A	9.3 x 26 x 10.2	236 x 660 x 259	82.7 b	37.5 kg
HVFSD3C0750G200/U	460 Vac	75 HP	7	NEMA 12	105A	9.3 x 26 x 10.2	236 x 660 x 259	82.7 b	37.5 kg
HVFSD3C0750G300/U	460 Vac	75 HP	7	NEMA 3R	105A	28.5 x 48 x 12.5	723.9 x 1219.2x 304.8	130 b	59 kg
HVFSD3C1000G100/U	460 Vac	100 HP	8	NEMA 1	140 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3C1000G200/U	460 Vac	100 HP	8	NEMA 12	140 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3C1250G100/U	460 Vac	120 HP	8	NEMA 1	170 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3C1250G200/U	460 Vac	120 HP	8	NEMA 12	170 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3C1500G100/U	460 Vac	150 HP	8	NEMA 1	205 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3C1500G200/U	460 Vac	150 HP	8	NEMA 12	205 A	11.4 x 38 x 13.5	290 x 965 x 343	154.3 lb	70 kg
HVFSD3C2000G100/U	460 Vac	200 HP	9	NEMA 1	261 A	18.9 x 45.3 x 14.4	480 x 1150 x 366	238.1 lb	108 Kg
HVFSD3C2000G200/U	460 Vac	200 HP	9	NEMA 12	261 A	18.9 x 45.3 x 14.4	480 x 1150 x 366	238.1 lb	108 Kg
HVFSD3C2500G100/U	460 Vac	250 HP	9	NEMA 1	310 A	18.9 x 45.3 x 14.4	480 x 1150 x 366	238.1 lb	108 Kg
HVFSD3C2500G200/U	460 Vac	250 HP	9	NEMA 12	310 A	18.9 x 45.3 x 14.4	480 x 1150 x 366	238.1 lb	108 Kg