VFD CORE and Bypass

Honeywell



Solution for Energy Savings in Minutes.



GAIN A COMPETITIVE ADVANTAGE!

Training is available to help you realize VFD CORE's full capabilities. Please contact your local distributor or Honeywell Sales Representative to learn more about training opportunities.

Save Time

The streamlined design of VFD CORE and VFD CORE Bypass saves you selection time before you even get to the jobsite because it has all the features you'll need for most applications. And once you're at the jobsite, you'll speed through the easy installation.

- The "Quick Startup" guide and "Startup Wizard" ask critical commissioning questions to intuitively guide you through installation and programming in minutes.
- Memory in the five-language-option, four-line-text keypad allows for four parameter sets to be stored in one keypad for quick upload and downloading.
- Enjoy maximum application flexibility with the three analog inputs, 10 digital inputs, two analog outputs, and three relay outputs.
- Other labor saving and control features include plenum rating, JOG mode, and 15 preset speeds.
- Integrated Modbus communication protocols for compatibility with almost every building management system.

Save Energy

Energy savings are at the heart of all Honeywell VFDs, and the same is true for VFD CORE. Nearly half of the energy consumed by buildings is used to circulate air and water. By modulating the speed of fans and pumps, VFD CORE maximizes energy savings day in and day out.

- Three programmable operating values on the display make VFD CORE easy for building managers to use and monitor.
- Easy status monitoring with LED lights.
- Hand and Auto control options for ease of use and manual override.

Save Headaches

Reliability is essential for both you and your customers, and the Honeywell VFD CORE drive delivers the performance and long service life that bring peace of mind. International quality and manufacturing standards have been combined to provide the highest quality drive possible.

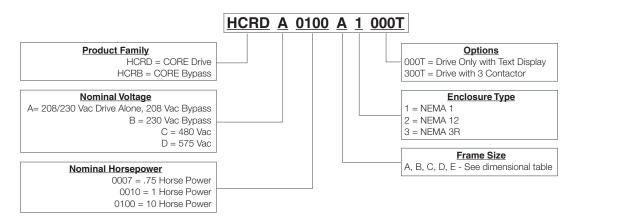
Plus, built-in features help ensure maximum uptime:

- Maximize uptime/runtime by utilizing the built-in auto-restart and power-loss ride-through capabilities.
- Harmonic protection with a three percent direct-current (DC) choke on the largest sized drives, Frame D and E.
- Conformal-coated boards for added durability.
- Six faults in memory with a time and date stamp for easy troubleshooting.

FROM THE BRAND YOU TRUST

No one knows HVAC, building management and energy savings like Honeywell. And no one supports you with a more complete network of knowledgeable distributors and technical support teams. For added peace of mind, a three-year warranty from date of purchase is standard.

In short, you can count on the VFD CORE to serve your customers for years to come.



VFD CORE Drive Alone

Voltage	Variable Torque Loads ¹ AMPS	Constant Torque Loads ² AMPS	Nominal HP ³	Frame	Part Name	Product Model Description	Weight	W (in)	H (in)	D (in)
208-230Vac	5	4.6	1	A	HCRDA0010A1000T	Core VFD, 230v, 1hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	7.5	5	2	A	HCRDA0020A1000T	Core VFD, 230v, 2hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	10	8	3	A	HCRDA0030A1000T	Core VFD, 230v, 3hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	15	11	5	A	HCRDA0050A1000T	Core VFD, 230v, 5hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	21	17	7.5	A	HCRDA0075A1000T	Core VFD, 230v, 7.5hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	31	25	10	В	HCRDA0100B1000T	Core VFD, 230v, 10hp, Nema 1, FrB	10.1	7.5	12.6	7.5
	46	33	15	В	HCRDA0150B1000T	Core VFD, 230v, 15hp, Nema 1, FrB	10.1	7.5	12.6	7.5
	61	49	20	В	HCRDA0200B1000T	Core VFD, 230v, 20hp, Nema 1, FrB	12.3	7.5	12.6	7.5
	75	65	25	С	HCRDA0250C1000T	Core VFD, 230v, 25hp, Nema 1, FrC	23.1	9.8	15.8	8.3
	90	75	30	С	HCRDA0300C1000T	Core VFD, 230v, 30hp, Nema 1, FrC	23.1	9.8	15.8	8.3
	105	90	40	С	HCRDA0400C1000T	Core VFD, 230v, 40hp, Nema 1, FrC	23.1	9.8	15.8	8.3
	146	120	50	D	HCRDA0500D1000T	Core VFD, 230v, 50hp, Nema 1, FrD	78.1	13	27.1	10.9
	180	146	60	D	HCRDA0600D1000T	Core VFD, 230v, 60hp, Nema 1, FrD	78.1	13	27.1	10.9
	215	180	75	E	HCRDA0750E1000T	Core VFD, 230v, 75hp, Nema 1, FrE	100.54	14.6	28.2	11.8
	276	215	100	E	HCRDA1000E1000T	Core VFD, 230v, 100hp, Nema 1, FrE	101.64	14.6	28.2	11.8
	322	255	125	E	HCRDA1250E1000T	Core VFD, 230v, 125hp, Nema 1, FrE	120.34	14.6	28.2	11.8
	3	2.8	1	A	HCRDC0010A1000T	Core VFD, 460v, 1hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	3.7	3	2	A	HCRDC0020A1000T	Core VFD, 460v, 2hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	5	4	3	A	HCRDC0030A1000T	Core VFD, 460v, 3hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	7.5	6	5	A	HCRDC0050A1000T	Core VFD, 460v, 5hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	12	10.5	7.5	A	HCRDC0075A1000T	Core VFD, 460v, 7.5hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	14	12	10	A	HCRDC0100A1000T	Core VFD, 460v, 10hp, Nema 1, FrA	6.2	5.12	9.84	6.69
	22.5	18	15	В	HCRDC0150B1000T	Core VFD, 460v, 15hp, Nema 1, FrB	10.1	7.5	12.6	7.5
460Vac	30	24	20	В	HCRDC0200B1000T	Core VFD, 460v, 20hp, Nema 1, FrB	12.3	7.5	12.6	7.5
400Vac	36	32	25	В	HCRDC0250B1000T	Core VFD, 460v, 25hp, Nema 1, FrB	12.3	7.5	12.6	7.5
	45	38	30	С	HCRDC0300C1000T	Core VFD, 460v, 30hp, Nema 1, FrC	19.14	9.8	15.8	8.3
	56	45	40	С	HCRDC0400C1000T	Core VFD, 460v, 40hp, Nema 1, FrC	19.14	9.8	15.8	8.3
	72	60	50	С	HCRDC0500C1000T	Core VFD, 460v, 50hp, Nema 1, FrC	20.68	9.8	15.8	8.3
	91	73	60	D	HCRDC0600D1000T	Core VFD, 460v, 60hp, Nema 1, FrD	78.1	13	27.1	10.9
	110	91	75	D	HCRDC0750D1000T	Core VFD, 460v, 75hp, Nema 1, FrD	78.1	13	27.1	10.9
	144	110	100	D	HCRDC1000D1000T	Core VFD, 460v, 100hp, Nema 1, FrD	89.1	13	27.1	10.9
	180	150	125	D	HCRDC1250D1000T	Core VFD, 460v, 125hp, Nema 1, FrD	88.88	13	27.1	10.9





¹Variable Torque loads are loads that drive a variable speed motor where the torque descreases as the speed decreases, i.e. centrifugal pumps, fans. ²Constant Torque loads are loads where as the speed changes the torque remains constant, i.e. conveyors, positive displacement pumps. ³Drives should be selected so that the rated output current in Amps of the drive meets or exceeds the full load amps (FLA) of the motor and not based on the motor horsepower.

VFD CORE Accessories

Part Number	Description						
HCRDMOUNTKIT	VFD CORE Keypad Mounting Kit						
HCRDKEYPAD	VFD CORE Replacement Keypad						
HCRDFANFRA1H	VFD CORE Replacement Fan Frame A (Heat Sink Cooling Fan for 3-7.5 HP 208/230 V and 5-10 HP 460 V)						
HCRDFANFRB1B	VFD CORE Replacement Fan Frame B (Board Cooling Fan for 10-20 HP 208/230 V and 15-25 HP 460 V)						
HCRDFANFRB1H	VFD CORE Replacement Fan Frame B (Heat Sink Cooling Fan for 10 HP 208/230 V and 15 HP 460 V)						
HCRDFANFRB2H	VFD CORE Replacement Fan Frame B (Heat Sink Cooling Fan for 15-20 HP 208/230 V and 20-25 HP 460V)						
HCRDFANFRC1B	VFD CORE Replacement Fan Frame C (Board Cooling Fan for 25-40 HP 208/230 V)						
HCRDFANFRC2B	VFD CORE Replacement Fan Frame C (Board Cooling Fan for 30-50 HP 460 V)						
HCRDFANFRD1B	VFD CORE Replacement Fan Frame D (Board Cooling Fan for 50-60 HP 208/230 V and 60-125 HP 460V)						
HCRDFANFRD1H	VFD CORE Replacement Fan Frame D (Heat Sink Cooling Fan for 50-60 HP 208/230 V and 60-125 HP 460V)						
HCRDFANFRE1B	VFD CORE Replacement Fan Frame E (Board Cooling Fan for 75-125 HP 208/230V)						
HCRDFANFRE1H	VFD CORE Replacement Fan Frame E (Heat Sink Cooling Fan for 75-100 HP 208/230 V)						
HCRDFANFRE2H	VFD CORE Replacement Fan Frame E (Heat Sink Cooling Fan for 125 HP 208/230 V)						
HCRDTRAINER	VFD CORE Demonstration Kit						







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VFD CORE BYPASS

The VFD CORE Bypass allows continuous motor operation during VFD testing, service or maintenance.

The VFD CORE Bypass is available in NEMA1, 3-contactor configuration with a fused disconnect. With 3 contactors, the VFD can be isolated from power with the motor running in the Bypass mode. The test position powers the VFD without energizing the motor.

VFD CORE Bypass

Voltage	Variable Torque Loads ¹ AMPS	Constant Torque Loads ² AMPS	Nominal HP ³	Frame	Part Name	Product Model Description -3 contactor Bypass with Fused Disconnect	Width (in)	Height (in)	Depth (in)
208 Vac	5	4.6	1	A	HCRBA0010A1300T	Core VFD 208v, 1hp, Nema 1, FrA	8.9	34	10.6
	7.5	5	2	A	HCRBA0020A1300T	Core VFD 208v, 2hp, Nema 1, FrA	8.9	34	10.6
	10	8	3	A	HCRBA0030A1300T	Core VFD 208v, 3hp, Nema 1, FrA	8.9	34	10.6
	15	11	5	A	HCRBA0050A1300T	Core VFD 208v, 5hp, Nema 1, FrA	8.9	34	10.6
	21	17	7.5	A	HCRBA0075A1300T	Core VFD 208v, 7.5hp, Nema 1, FrA	8.9	34	10.6
	31	25	10	В	HCRBA0100B1300T	Core VFD 208v, 10hp, Nema 1, FrB	12.4	48	11.5
	46	33	15	В	HCRBA0150B1300T	Core VFD 208v, 15hp, Nema 1, FrB	12.4	48	11.5
	61	49	20	В	HCRBA0200B1300T	Core VFD 208v, 20hp, Nema 1, FrB	12.4	48	11.5
	75	65	25	С	HCRBA0250C1300T	Core VFD 208v, 25hp, Nema 1, FrC	12.4	48	11.5
	90	75	30	С	HCRBA0300C1300T	Core VFD 208v, 30hp, Nema 1, FrC	12.4	48	11.5
	105	90	40	С	HCRBA0400C1300T	Core VFD 208v, 40hp, Nema 1, FrC	12.4	48	11.5
	146	120	50	D	HCRBA0500D1300T	Core VFD 208v, 50hp, Nema 1, FrD	21	53.5	13.3
	180	146	60	D	HCRBA0600D1300T	Core VFD 208v, 60hp, Nema 1, FrD	21	53.5	13.3
	215	180	75	E	HCRBA0750E1300T	Core VFD 208v, 75hp, Nema 1, FrE	25	66.5	16.2
	276	215	100	E	HCRBA1000E1300T	Core VFD 208v, 100hp, Nema 1, FrE	25	66.5	16.2
	322	255	125	E	HCRBA1250E1300T	Core VFD 208v, 125hp, Nema 1, FrE	25	66.5	16.2
	5	4.6	1	A	HCRBB0010A1300T	Core VFD 230v, 1hp, Nema 1, FrA	8.9	34	10.6
230 Vac	7.5	5	2	A	HCRBB0020A1300T	Core VFD 230v, 2hp, Nema 1, FrA	8.9	34	10.6
	10	8	3	A	HCRBB0030A1300T	Core VFD 230v, 3hp, Nema 1, FrA	8.9	34	10.6
	15	11	5	A	HCRBB0050A1300T	Core VFD 230v, 5hp, Nema 1, FrA	8.9	34	10.6
	21	17	7.5	A	HCRBB0075A1300T	Core VFD 230v, 7.5hp, Nema 1, FrA	8.9	34	10.6
	31	25	10	В	HCRBB0100B1300T	Core VFD 230v, 10hp, Nema 1, FrB	12.4	48	11.5
	46	33	15	В	HCRBB0150B1300T	Core VFD 230v, 15hp, Nema 1, FrB	12.4	48	11.5
	61	49	20	В	HCRBB0200B1300T	Core VFD 230v, 20hp, Nema 1, FrB	12.4	48	11.5
	75	65	25	C	HCRBB0250C1300T	Core VFD 230v, 25hp, Nema 1, FrC	12.4	48	11.5
	90	75	30	C	HCRBB0300C1300T	Core VFD 230v, 30hp, Nema 1, FrC	12.4	48	11.5
	105	90	40	C	HCRBB0400C1300T	Core VFD 230v, 40hp, Nema 1, FrC	12.4	48	11.5
	146	120	50	D	HCRBB0500D1300T	Core VFD 230v, 50hp, Nema 1, FrD	21	53.5	13.3
	180	146	60	D	HCRBB0600D1300T	Core VFD 230v, 60hp, Nema 1, FrD	21	53.5	13.3
	215	180	75	E	HCRBB0750E1300T	Core VFD 230v, 75hp, Nema 1, FrE	25	66.5	16.2
	276	215	100	E	HCRBB1000E1300T	Core VFD 230v, 100hp, Nema 1, FrE	25	66.5	16.2
	322	255	125	E	HCRBB1250E1300T	Core VFD 230v, 125hp, Nema 1, FrE	25	66.5	16.2
	3	2.8	1	A	HCRBC0010A1300T	Core VFD 460v, 1hp, Nema 1, FrA	8.9	34	10.6
460 Vac	3.7	3	2	A	HCRBC0020A1300T	Core VFD 460v, 2hp, Nema 1, FrA	8.9	34	10.6
	5	4	3	A	HCRBC0030A1300T	Core VFD 460v, 3hp, Nema 1, FrA	8.9	34	10.6
	7.5	6	5	A	HCRBC0050A1300T	Core VFD 460v, 5hp, Nema 1, FrA	8.9	34	10.6
	12	10.5	7.5	A	HCRBC0075A1300T	Core VFD 460v, 7.5hp, Nema 1, FrA	8.9	34	10.6
	14	12	10	A	HCRBC0100A1300T	Core VFD 460v, 10hp, Nema 1, FrA	8.9	34	10.6
	22.5	18	15	В	HCRBC0150B1300T	Core VFD 460v, 15hp, Nema 1, FrB	12.4	48	11.5
	30	24	20	B	HCRBC0200B1300T	Core VFD 460v, 20hp, Nema 1, FrB	12.4	48	11.5
	36	32	25	B	HCRBC0250B1300T	Core VFD 460v, 25hp, Nema 1, FrB	12.4	48	11.5
	45	38	30	C	HCRBC0300C1300T	Core VFD 460v, 30hp, Nema 1, FrC	12.4	48	11.5
	56	45	40	c	HCRBC0400C1300T	Core VFD 460v, 40hp, Nema 1, FrC	12.4	48	11.5
	72	60	50	c	HCRBC0500C1300T	Core VFD 460v, 50hp, Nema 1, FrC	12.4	48	11.5
	91	73	60	D	HCRBC0600D1300T	Core VFD 460v, 60hp, Nema 1, FrD	21	53.5	13.3
	110	91	75	D	HCRBC0750D1300T	Core VFD 460v, 75hp, Nema 1, FrD	21	53.5	13.3
	144	110	100	D	HCRBC1000D1300T	Core VFD 460v, 75hp, Nema 1, FrD Core VFD 460v, 100hp, Nema 1, FrD	21	53.5	13.3
	144	150	125	D	HCRBC1250D1300T	10010 VI D 700V, 1001p, Nellia 1, 11D	21		10.0

¹Variable Torque loads are loads that drive a variable speed motor where the torque descreases as the speed decreases, i.e. centrifugal pumps, fans.

²Constant Torque loads are loads where as the speed changes the torque remains constant, i.e. conveyors, positive displacement pumps.

³Drives should be selected so that the rated output current in Amps of the drive meets or exceeds the full load amps (FLA) of the motor and not based on the motor horsepower.

MAXIMUM ENERGY SAVINGS VFD CORE keeps fans and pumps from running at unneeded speeds.





TIME SAVINGS. ENERGY SAVINGS.

They're at the Core of VFD CORE.

Think of the time you'll save per job if you have a variable frequency drive (VFD) that covers nearly all of your commercial heating, ventilation and air conditioning (HVAC) applications, is a breeze to install, takes minutes to program, and is backed by Honeywell dependability. You'd increase your profitability, and your customers would enjoy a lower installed cost and years of energy savings.

Get it all with VFD CORE.

Commissioning in a matter of minutes!

FAST INSTALLATION. FAST STARTUP. FAST SAVINGS.

Count on VFD CORE:

- Meet application needs in 95 percent of commercial HVAC systems
- Reduced startup and commissioning time
- Low total-installed cost
- Outstanding energy savings for your customers
- Quality performance backed by a strong warranty and technical support

Learn More For more information on the Honeywell VFD CORE, call **1-800-466-3993** or visit www.beyondinnovation.honeywell.com.

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