

ABB - INTEGRATED MOTOR DRIVES (IMD)

# **LFH – High Performance**

Direct drive solution for HVLS fans High-volume, low-speed





ABB is your trusted advisor for sustainable, reliable and easy-to-use integrated motor drives.

ABB's high efficient LFH motors produce high torque at low speed making them one of the most reliable and sustainable technologies available in the market today.

Trust ABB to provide the latest and most innovative motor solutions to meet your needs.

### LFH direct drive solution

# High-volume, low-speed direct drive solution



#### **High efficiency**

- · Highest system efficiency
- Innovative and practical way to turn a fan

   without unnecessary components
- Performance data independently tested and verified



#### **Eco-friendly design**

- Removes seals and leaking oil required by gearing in traditional systems
- Eliminates high maintenance mechanical components



#### Variable speed operation

- · Ideal for high-volume, low-speed fans
- Match motor to impeller speed for optimized performance
- Improved efficiency when running at partial speed



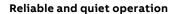
#### Easy to use

- Eliminate gearing and maintenance items
- Bearings are permanently sealed-for-life



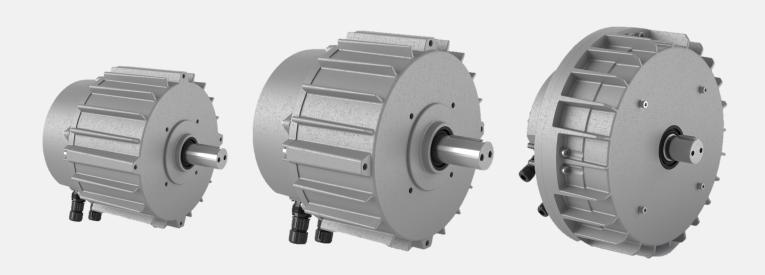
#### Plug-and-play

- · Minimal set-up required
- Start/stop configuration using speed potentiometer to for ease of control
- · LED indicator for motor health





- Reduced mechanical stresses with low starting current, increasing reliability
- Ultra-quite operation eliminating high speed noise

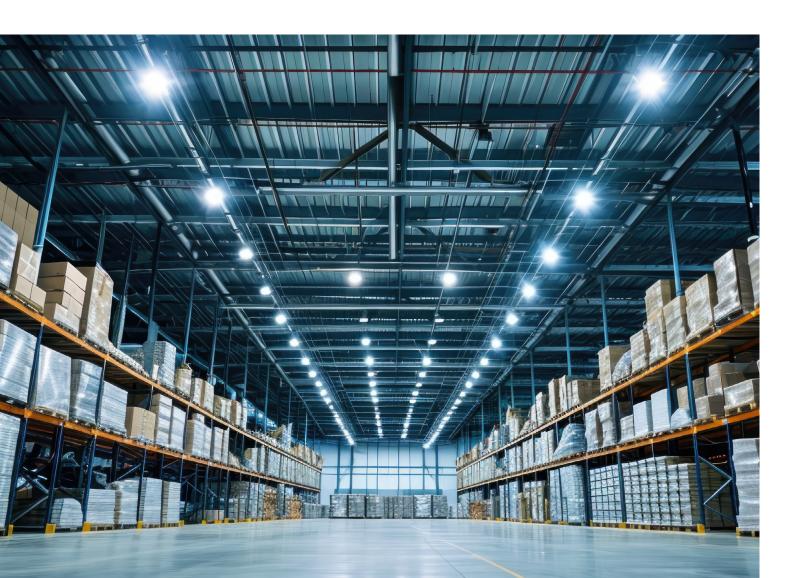


# Reliability. Silent operation. Practicality. It all counts.

Large industrial and commercial buildings can benefit greatly from increased air circulation, and HVLS (high-volume, low-speed) fans are part of the solution. These fans are capable of efficiently circulating a high volume of air throughout large spaces, making them ideal for commercial buildings, warehouses and gyms.

If you are looking to improve air circulation, consider HVLS fans with ABB LFH direct drive. Say goodbye to the noisy, inefficient and high-maintenance fans of the past. Switch to a modern, reliable and efficient solution.

ABB: your timely, transformative and trusted provider of Integrated Motor Drive (IMD) solutions.



# **Sustainability**

ABB is committed to providing innovative solutions that prioritize operational efficiency, enhance building comfort and contribute to sustainable practices. With that in mind, we are excited to introduce our latest motor solution – LFH. LFH is a practical design that is innovative, energy

efficient and offers quieter operation. It's a game-changer for anyone looking to improve their building's performance and reduce their carbon footprint.



#### Old HVLS system

- · Not as efficient
- More wear components
- · Oil and environmental contaminants
- Higher and vibration

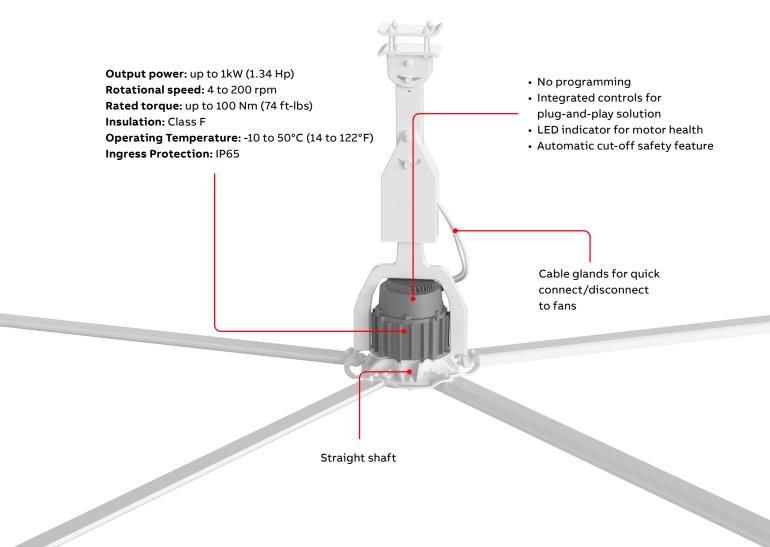


#### New direct drive system

- Efficient design
- No gearbox
- No maintenance components
- No oil
- Less structural support
- Quieter operation
- Compact design

## Details make a difference

This cutting-edge technology is built and designed for practical operation, making it the perfect solution for HVLS industrial fans ranging from 6.5 - 23ft (2-7m) in blade diameter. With an IP65 rating for durability, it can operate in a variety of environments. Get ready to experience a more efficient and reliable solution with the LFH integrated motor and drive.



# Ordering Information

Product Series	Frame	Product C	Product Code					
LFH	110	E	0	Н	0P8	ΗE	D	
		   1	2	3	4 5	6 7	8	

temperature

LF         Low speed fan = LFH           H         Industry = HVAC           Frame         Description           11x         Aluminum           xx0         Standard Version           Position 1         Version           E         Axial Mount (TEAO)           Position 2         Voltage           0         230/460 V         3-Phase           6         115/230 V         1-Phase           Position 3         Power Type         H           H         Horsepower           Position 4,5         Power Rating (HP)           OP4         0,4           OP7         0,7           OP8         0,8           OP9         0,9           1P1         1,1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Product Series		
Frame         Description           11x         Aluminum           xx0         Standard Version           Position 1         Version           E         Axial Mount (TEAO)           Position 2         Voltage           0         230/460 V         3-Phase           6         115/230 V         1-Phase           Position 3         Power Type         H           H         Horsepower           Position 4,5         Power Rating (HP)           0P4         0,4           0P7         0,7           0P8         0,8           0P9         0,9           1P1         1,1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	LF		Low speed fan = LFH
11x         Aluminum           xx0         Standard Version           Position 1         Version           E         Axial Mount (TEAO)           Position 2         Voltage           0         230/460 V         3-Phase           6         115/230 V         1-Phase           Position 3         Power Type           H         Horsepower           Position 4,5         Power Rating (HP)           0P4         0.4           0P7         0.7           0P8         0.8           0P9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Н		Industry = HVAC
xx0         Standard Version           Position 1         Version           E         Axial Mount (TEAO)           Position 2         Voltage           0         230/460 V         3-Phase           6         115/230 V         1-Phase           Position 3         Power Type           H         Horsepower           Position 4,5         Power Rating (HP)           0P4         0.4           0P7         0.7           0P8         0.8           0P9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Frame		Description
Position 1         Version           E         Axial Mount (TEAO)           Position 2         Voltage           0         230/460 V         3-Phase           6         115/230 V         1-Phase           Position 3         Power Type           H         Horsepower           Position 4,5         Power Rating (HP)           0P4         0.4           0P7         0.7           0P8         0.8           0P9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	11x		Aluminum
Position 2         Voltage           0         230/460 V         3-Phase           6         115/230 V         1-Phase           Position 3         Power Type           H         Horsepower           Position 4,5         Power Rating (HP)           0P4         0,4           0P7         0,7           0P8         0,8           0P9         0,9           1P1         1,1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	xx0		Standard Version
Position 2         Voltage           0         230/460 V         3-Phase           6         115/230 V         1-Phase           Position 3         Power Type           H         Horsepower           Position 4,5         Power Rating (HP)           0P4         0,4           0P7         0,7           0P8         0,8           0P9         0,9           1P1         1,1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Position 1		Version
Desire   Color   Col	E		Axial Mount (TEAO)
Position 3         Power Type           H         Horsepower           Position 4,5         Power Rating (HP)           0P4         0.4           0P7         0.7           0P8         0.8           0P9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Position 2		Voltage
Position 3         Power Type           H         Horsepower           Position 4,5         Power Rating (HP)           0P4         0,4           0P7         0,7           0P8         0,8           0P9         0,9           1P1         1,1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	0	230/460 V	3-Phase
H	6	115/230 V	1-Phase
Position 4,5         Power Rating (HP)           0P4         0.4           0P7         0.7           0P8         0.8           0P9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Position 3		Power Type
0P4         0.4           0P7         0.7           0P8         0.8           0P9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Н		Horsepower
OP7         0.7           OP8         0.8           OP9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Position 4,5		Power Rating (HP)
0P8         0.8           0P9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	0P4		0.4
0P9         0.9           1P1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	OP7		0.7
IP1         1.1           Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	0P8		0.8
Position 6         Frame           F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	0P9		0.9
F         220 LFH           G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	1P1		1.1
G         360 LFH           H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Position 6		Frame
H         360 H60 HP           Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	F		220 LFH
Position 7         Frame           E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	G		360 LFH
E         Axial Mount (TEAO)           Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Н		360 H60 HP
Position 8         Base Speed (r/min)           A         250           B         200           C         160 or 163           D         90 or 95	Position 7		Frame
A 250 B 200 C 160 or 163 D 90 or 95	Е		Axial Mount (TEAO)
B 200 C 160 or 163 D 90 or 95	Position 8		Base Speed (r/min)
C 160 or 163 D 90 or 95	A		250
D 90 or 95	В		200
	С		160 or 163
E 81 or 84	D		90 or 95
	E		81 or 84

Environmental				
Enclosure	IP65			
Operating Temperature (Full Power)	-15 to 40 °C (5 to 104 °F)			
Operating Temperature (Reduced Powe	er) -20 to 60°C (-4 to 140 °F)			
Storage Temperature	-20 to 80°C (-4 to 176 °F)			
Max shaft axial load	50kg (110lbs)			
Bearings	Permanently sealed			
Towns and the Makes				
Temperature Limits: Motor				
Motor insulation class	F			
Maximum motor tomporature	125°C (120°C before derating)			
Maximum motor temperature —	257°F (248°F before derating)			
Temperature Limits: Electronics				
Power module maximum	85°C (80°C before derating)			
temperature	185°F (176°F before derating)			
PCB maximum	80°C (75°C before derating)			

### **LFH Ordering Information**

LFH220 catalog numbers and ratings



ABB Catalog Number	Frame Size	Stack Height	Impeller Diameter m (ft.)	Motor Power kW (Hp)	Max Speed (RPM)	Torque nm (lb-ft)	Voltage (V/Phase)	Eff.(%)
LFH110E0H0P3FEA	LF220	H30	2m (6.5ft)	0.22 (0.3)	170	12.4 (9.3)	460 3PH	72.2
LFHIIOEUHUFSFEA	LFZZO	пэо	2111 (0.511)	0.22 (0.3)	170	12.4 (9.3)	230 3PH	76.6
LFH110E6H0P3FEA	LF220	H30	2m (6.5ft)	0.22 (0.3)	170	12.4 (9.3)	115 1PH	75.4
LFHIIUEUHUPSFEA	LFZZO	пзо	2111 (0.511)	0.22 (0.3)	170	12.4 (9.3)	230 1PH	73.3
				0.8 (1.1)	250	31 (23.1)	460 3PH	81.2
			2.5m (8.2ft)	0.7 (0.9)	250	26 (18.9)	230 3PH	84.3
			2.5111 (0.211)	0.37 (0.5)	150	24 (17.5)	460 3PH	75.2
		Н50		0.30 (0.4)	150	19 (14)	230 3PH	79.5
				0.5 (0.7)	200	25 (18.4)	460 3PH	79.7
LFH110E0H1P1FEA	LF220		3m (9.84ft)	0.45 (0.6)	200	21 (15.8)	230 3PH	83.3
LINITE CONTRACTOR	LIZZO			0.22 (0.3)	110	19 (14.3)	460 3PH	71.7
				0.15 (0.2)	110	13 (9.5)	230 3PH	76.9
			4m (13.12ft)	0.37 (0.5)	140	25 (18.8)	460 3PH	74.2
				0.30 (0.4)	140	20 (15)	230 3PH	78.8
				0.15 (0.2)	75	19 (14)	460 3PH	63.8
				0.15 (0.2)	75	19 (14)	230 3PH	71.5
			2.5m (8.2ft)	0.7 (0.9)	250	26 (18.9)	115/230 1PH	84.3
				0.30 (0.4)	150	19 (14)	115/230 1PH	79.6
LFH110E6H0P9FEA	LF220	H50	3m (9.84ft)	0.45 (0.6)	200	21 (15.8)	115/230 1PH	83.3
El HIIIOEOHOI SI EA	El EEO	1150	3111 (9.6411)	0.15 (0.2)	110	13 (9.5)	115/230 1PH	76.9
			4m (13.12ft)	0.30 (0.4)	140	20 (15)	115/230 1PH	78.8
			4111 (13.1211)	0.15 (0.2)	75	19 (14)	115/230 1PH	71.5
				0.6 (0.8)	160	36 (26.3)	460 3PH	80.9
LFH110E0H0P8FEC	LF220	H70	4m (13.12ft)	0.5 (0.7)	160	31 (23)	230 3PH	83.2
	L: 220		-III (13.121C)	0.30 (0.4)	95	30 (22.1)	460 3PH	75.1
				0.22 (0.3)	95	23 (16.6)	230 3PH	77.9
LFH110E6H0P7FEC	LF220	H70	4m (13.12ft)	0.5 (0.7)	160	31 (23)	115/230 1PH	83.2
LI IIIIOLUIIUF I FLC	LI 220	пи	7111 (13.1L1t)	0.22 (0.3)	95	23 (16.6)	115/230 1PH	77.9

### **LFH Ordering Information**

LFH360 catalog numbers and ratings



ABB Catalog Number	Frame Size	Stack Height	Impeller Diameter m (ft.)	Motor Power kW (Hp)	Max Speed (RPM)	Torque nm (lb-ft)	Voltage (V/Phase)	Eff.(%)
			3 F (0, 3f+)	0.6 (0.8)	200	28 (21)	460 3PH	75.6
			2.5m (8.2ft)	0.5 (0.7)	163	31 (22.6)	230 3PH	74.7
				0.6 (0.8)	190	30 (22.1)	460 3PH	74.9
			3m (9.84ft)	0.5 (0.7)	163	31 (22.6)	230 3PH	74.7
LFH110E0H0P8GEB	LF360	H20	3m (9.84ft)	0.45 (0.6)	160	27 (19.7)	460 3PH	73.7
El HILLOCOHOL GGED	£1 300	TILO		0.45 (0.6)	160	27 (19.7)	230 3PH	76.0
				0.15 (0.2)	110	13 (9.5)	460 3PH	67.9
			4m (13.12ft)	0.15 (0.2)	110	13 (9.5)	230 3PH	72.1
				0.37 (0.5)	100	36 (26.3)	460 3PH	62.1
				0.37 (0.5)	100	36 (26.3)	230 3PH	64.0
		H40	5m (16.5ft)	0.30 (0.4)	95	30 (22.1)	460 3PH	78.2
				0.30 (0.4)	84	34 (25)	230 3PH	81.4
				0.6 (0.8)	80	71 (52.5)	460 3PH	73.6
				0.5 (0.7)	72	69 (51.1)	230 3PH	72.9
				0.30 (0.4)	75	38 (28)	460 3PH	76.4
LFH110E0H0P4GED	LF360		6m (19.69ft)	0.30 (0.4)	75	38 (28)	230 3PH	79.9
LFHIIUEUHUP4GED	LF360	П40	6111 (19.6911)	0.45 (0.6)	65	66 (48.5)	460 3PH	69.5
				0.45 (0.6)	65	66 (48.5)	230 3PH	71.6
				0.22 (0.3)	45	47 (35)	460 3PH	65.7
			7m (22.97ft)	0.22 (0.3)	45	47 (35)	230 3PH	69.8
			1111 (22.9111)	0.30 (0.4)	40	71 (52.5)	460 3PH	58.8
				0.30 (0.4)	40	71 (52.5)	230 3PH	61.6

#### **LFH Ordering Information**

LF360 catalog numbers and ratings (continued)



ABB Catalog Number	Frame Size	Stack Height	Impeller Diameter m (ft.)	Motor Power kW (Hp)	Max Speed (RPM)	Torque nm (lb-ft)	Voltage (V/Phase)	Eff.(%)
			,	0.6 (0.8)	90	63 (46.7)	460 3PH	82.0
			6m (19.69ft)	0.5 (0.7)	81	62 (45.4)	230 3PH	82.9
		Н60	6111 (19.6911)	0.6 (0.8)	75	76 (56)	460 3PH	78.8
LFH110E0H0P8GED	LF360			0.6 (0.8)	75	76 (56)	230 3PH	80.6
LFHIIOEVHOPOGED	LF300		7m (22.97ft)	0.37 (0.5)	60	59 (43.8)	460 3PH	76.7
				0.37 (0.5)	60	59 (43.8)	230 3PH	79.4
				0.45 (0.6)	50	85 (63)	460 3PH	72.6
				0.45 (0.6)	50	85 (63)	230 3PH	74.8
		Н60-НР	6m (19.69ft)	0.6 (0.8)	90	63 (46.7)	460 3PH	83.0
				0.45 (0.6)	73	59 (43.2)	230 3PH	83.8
				0.6 (0.8)	75	76 (56)	460 3PH	80.6
LFH110E0H0P8HED	LF360			0.6 (0.8)	70	81 (60)	230 3PH	82.0
TEHTIOEOHOP8HED	LF360			0.37 (0.5)	60	59 (43.8)	460 3PH	78.5
			7m (22 07f+)	0.37 (0.5)	60	59 (43.8)	230 3PH	80.9
			7m (22.97ft)	0.5 (0.7)	50	100 (73.5)	460 3PH	72.9
				0.5 (0.7)	50	100 (73.5)	230 3PH	75.4

Values shown are of LFH working at +40°C (104°F) environment temperature. In these operating conditions the units reach their maximum performance before derating occurs. Units are "air over" during operation; performance and typical operating conditions are strongly influenced by the cooling action of the impeller.

Some torque deratings could be necessary in application, depending on the ability of the impeller to effectively cool the electronic driver and the electric motor.

Maximum environment temperature expected in the application is to be carefully considered during tests, as it adds to the temperature of motor and driver influencing the maximum torque deliverable within acceptable temperature limits for motor and electronic driver.

## Technical Data

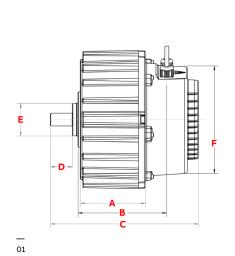
		Three phase	Single phase			
Product name	Number of phases	3	1			
	Nominal supply voltage	400 V rms	230 V rms			
	Line voltage (absolute min-max)	180 V rms 500 V rms	85 V rms 264 V rms			
	Line frequency range	50 Hz 60 Hz	50 Hz 60 Hz			
	Maximum line current	6 A rms	8 A rms			
	Power factor correction	Not available				
	Ground leakage current	< 3.5 mA @400 V rms	< 3.5 mA @ 230 V rms			
Driver output data	Number of phases	3	1			
	Maximum current	6 A peak	6 A peak			
	PWM pulse frequency	15 KHz	10 KHz			
Interface signal wire data	Wires number	6				
	Analog input voltage	0 10 Vdc				
	Analog output voltage	+10 Vdc (5 mA max current)				
	Input impedance	200 kOhm				
	Communication interface	EIA RS-485				
	Communication protocol	ModBus RTU				

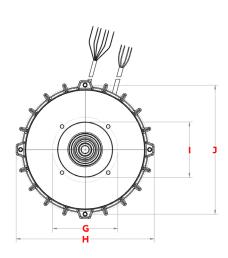
- Unit housing: die-cast aluminum
- Installation position: shaft on bottom
- Direction frotation: configurable by Modbus (Default factory setup – clockwise, looking toward shaft)
- Max shaft axial load: 70 kg (154lbs)

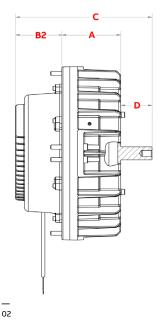
- Shaft coupling through keyless locking device
- Balancing: rotor not balanced
- Bearings operation: maintenance-free
- Bearing seat material: die-cast aluminum
- Enclosure protection degree: IP65

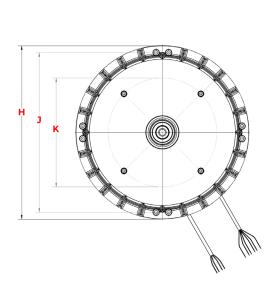
# Dimensional drawing

01 LF220 — 02 LF360









Frame size Stack height	Charle baimbh	Dimensions (mm)								Weight			
	Α	В	В2	С	D	E	F	G	Н	ı	J	kg (lbs)	
LF220	H30/H50	129.5	176.5	-	295	44	65	214	130	275	110	257	20 (44.1)
LF22U	H70	149.5	197.5	-	315	44.5	65	214	130	275	110	257	26 (57.3)
	H20	123	-	112.5	311.7	76.2	-	-	264	420	-	386.8	35 (77.15)
LF360	H40	143	-	112.5	311.7	76.2	-	-	264	420	-	386.8	45 (99.21)
LF30U	H60	163	-	112.5	311.7	76.2	-	-	264	420	-	386.8	55 (121.25)
	H60H	163	-	112.5	311.7	76.2	-	-	264	420	-	386.8	55 (121.25)

# **Operating Modes**



Modbus RPM speed control Input Type: 0



Analog 0-10 VDC speed control
Input Type: 1



Modbus fixed speed control
Input Type: 2



Modbus % speed control Input Type: 3



Analog 10-0 VDC speed control Input Type: 4

Туре	Description
0	Motor runs at value in register 66 (speed value cleared with power cycle)
1	Default setting = 1 Sets motor speed proportional to analog input voltage
2	Motor runs at value in register 17 (speed set point remains with power cycle)
3	Motor runs at % speed defined register 66 (value cleared on power cycle)
4	Motor speed inversely proportional to analog input voltage (available three phase only models)

- Operating mode can be modified by setting the input type (holding register number 30)
- Default factory setting is input Type 1; Analog 0-10 VDC control.
- Note: Input type 4 only available for three phase versions

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