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For more information please visit:
www.geindustrial.com/drives

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General Information

Codes and Standards

Circuit Protection Guidelines

For some products, incoming line fuses are required to meet the basic UL listing requirements.

Consult AF-6 Series individual drive Design Guides for fuse recommendations.

The NEC defines several types of control circuits and the overcurrent protection required for each type.

Type Enclosures: IP00, IP20, IP21, IP54, IP55 and IP66

NEMA 1: Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt.

NEMA 4: Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, wind-blown dust, splashing water, hose-directed water, and corrosion; and that will be undamaged by external formation of ice on the enclosure.

NEMA 12: Enclosures constructed (without knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flyings; and against dripping and light splashing of liquids.

IEC 60529 - Ingress Protection (IP) Codes

First Digit	Protection Against Foreign Objects	Second Digit	Protection Against Moisture
0	Not protected	0	Not protected
1	Protected against objects greater than 50 mm	1	Protected against dripping water
2	Protected against objects greater than 12 mm	2	Protected against dripping water when tilted up to 15°
3	Protected against objects greater than 2.5 mm	3	Protected against spraying water
4	Protected against objects greater than 1.0 mm	4	Protected against splashing water
5	Dust protected	5	Protected against water jets
6	Dust tight	6	Protected against heavy seas
—		7	Protection against the effects of immersion
—		8	Protection against submersion



General Information

Quick Application Specifiers Data Form

Industry (automotive, food and beverage, etc.): _____

Equipment Application (fan, conveyor, etc.): _____

General

Load Conditions

Torque Characteristics: _____ Constant Torque _____ Variable Torque _____ Constant Horsepower

Starting Torque: _____ lb/ft Maximum Torque: _____ lb/ft Inertia: _____ Wk²

Other: _____

Speed Conditions

_____ Speed Range _____ Speed Accuracy

Environment

Ambient Temperature: _____ to _____ °C Humidity: _____ % Altitude: _____ ft

Special Conditions (dust, oil, vibration, etc.): _____

Motor Specifications

Existing: _____ Est. Year of Mfg.: _____ New: _____

Type (NEMA, A, B, C, D, Sync): _____

Rating: _____ hp _____ rpm _____ Phase _____ Connection _____ Hz _____ Volts _____ Amps

Insulation Class: _____ S.F.: _____ Max. Freq.: _____ Hz Speed Range (rpm): _____ to _____

Time Rating: _____ %ED (Cont.) No. of Motors Per Drive: _____ Tachometer (Y/N): _____ Type: _____

Cable run distance from drive: _____

Operation speed range: _____

Drive Specifications

Input: _____ Volts _____ Hz _____ Phase _____ kVa or Isc (ex. source transformer size)

Output: _____ hp _____ Full Load Current

Starting Torque: _____ (% of rated torque) Acceleration Time: _____ Deceleration Time: _____

Motor Control Conditions: Reversing: _____ Non-Reversing: _____ Jogging (Frequency: _____ Hz)

Drive Enclosure: NEMA 1: _____ Bypass: _____ (Y/N) AC Line Reactor (input): _____ (Y/N) Dynamic Braking: _____ (Y/N)

Total Operating Time: _____ s on _____ s off Type (dynamic resistors or ac line generation): _____

Note: Deceleration time and load inertia are critical in the selection of the braking components.



General Information
AC Drive Specification Form

AC Drive

AC Incoming Power

Circuit Protection

GE Drive

Operator's Interface

Encoder

Motor

Belt Gear
Ratio: XX•XX

Load

Power Transmission System

Machine Name/No.	Load Type CT, VT, CH	Starting Torque	Max. Torque	Reversing/ Non- Rev.	Encoder Y/N	Hp and Base Speed	Speed Range ex: 10:1	Speed Regulation	Bypass Req'd. (Y/N)	Inverter Hp/FLA	Reactor Req'd. (Y/N)	Operator's Device & Sys. Controls	RS-485/ Genius/LAN
1													
2													
3													
4													
5													
6													



AF-60 LP Micro Drive

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AF-60 LP Micro Drive

Pricing, Dimensions and Weights - Stock Units

IP 20 - Protected Chassis - 230 Vac, 1-Phase, 50/60 Hz Input

HP	kW	Amps	Product No.	List Price GO-SLP	Unit Size	H x W x D (in)	Weight (lbs)	NEMA 1 Kit	Din Rail Mounting Kit
1/4	0.18	1.2	6KLP21F25X9A1	\$275.00	M1	6.13 x 2.76 x 6.06	2.43	NEMA1LP1	RMACLP1
1/2	0.37	2.2	6KLP21F50X9A1	\$280.00	M1	6.13 x 2.76 x 6.06	2.43	NEMA1LP1	RMACLP1
1	0.75	4.2	6KLP21001X9A1	\$305.00	M1	6.13 x 2.76 x 6.06	2.43	NEMA1LP1	RMACLP1
2	1.5	6.8	6KLP21002X9A1	\$360.00	M2	7.09 x 2.95 x 6.85	3.53	NEMA1LP2	RMACLP1
3	2.2	9.6	6KLP21003X9A1	\$490.00	M3	9.69 x 3.54 x 8.07	9.7	NEMA1LP3	N/A

IP 20 - Protected Chassis - 230 Vac, 3-Phase, 50/60 Hz Input

HP	kW	Amps	Product No.	List Price GO-SLP	Unit Size	H x W x D (in)	Weight (lbs)	NEMA 1 Kit	Din Rail Mounting Kit
1/3	0.25	1.5	6KLP23F33X9A1	\$260.00	M1	6.13 x 2.76 x 6.06	2.43	NEMA1LP1	RMACLP1
1/2	0.37	2.2	6KLP23F50X9A1	\$280.00	M1	6.13 x 2.76 x 6.06	2.43	NEMA1LP1	RMACLP1
1	0.75	4.2	6KLP23001X9A1	\$320.00	M1	6.13 x 2.76 x 6.06	2.43	NEMA1LP1	RMACLP1
2	1.5	6.8	6KLP23002X9A1	\$375.00	M2	7.09 x 2.95 x 6.85	3.53	NEMA1LP2	RMACLP1
3	2.2	9.6	6KLP23003X9A1	\$475.00	M3	9.69 x 3.54 x 8.07	9.7	NEMA1LP3	N/A
5	3.7	15.2	6KLP23005X9A1	\$600.00	M3	9.69 x 3.54 x 8.07	9.7	NEMA1LP3	N/A

IP 20 - Protected Chassis - 460 Vac, 3-Phase, 50/60 Hz Input

HP	kW	Amps	Product No.	List Price GO-SLP	Unit Size	H x W x D (in)	Weight (lbs)	NEMA 1 Kit	Din Rail Mounting Kit
1/2	0.37	1.2	6KLP43F50X9A1	\$430.00	M1	6.13 x 2.76 x 6.06	2.43	NEMA1LP1	RMACLP1
1	0.75	2.2	6KLP43001X9A1	\$450.00	M1	6.13 x 2.76 x 6.06	2.43	NEMA1LP1	RMACLP1
2	1.5	3.7	6KLP43002X9A1	\$515.00	M2	7.09 x 2.95 x 6.85	3.53	NEMA1LP2	RMACLP1
3	2.2	5.3	6KLP43003X9A1	\$565.00	M2	7.09 x 2.95 x 6.85	3.53	NEMA1LP2	RMACLP1
5	3.7	9	6KLP43005X9A1	\$750.00	M3	9.69 x 3.54 x 8.07	9.7	NEMA1LP3	N/A
7.5	5.5	12	6KLP43007X9A1	\$975.00	M3	9.69 x 3.54 x 8.07	9.7	NEMA1LP3	N/A
10	7.5	15.5	6KLP43010X9A1	\$1200.00	M3	9.69 x 3.54 x 8.07	9.7	NEMA1LP3	N/A
15	11	23	6KLP43015X9A1	\$1740.00	M4	11.5 x 4.92 x 9.49	13.2	NEMA1LP4	N/A
20	15	31	6KLP43020X9A1	\$2025.00	M4	11.5 x 4.92 x 9.49	13.2	NEMA1LP4	N/A
25	18.5	37	6KLP43025X9A1	\$2475.00	M5	13.19 x 6.5 x 9.76	20.9	NEMA1LP5	N/A
30	22	43	6KLP43030X9A1	\$2890.00	M5	13.19 x 6.5 x 9.76	20.9	NEMA1LP5	N/A

Brake Chopper is included with 2HP drives and above

Drive Efficiency and Watt Loss - 230 Vac, 1-Phase, 50/60 Hz Input

HP	kW	Amps	Product No.	Efficiency ¹	Watt Loss ¹
1/4	0.18	1.2	6KLP21F25X9A1	94.5	15.5
1/2	0.37	2.2	6KLP21F50X9A1	95.6	25.0
1	0.75	4.2	6KLP21001X9A1	96.0	44.0
2	1.5	6.8	6KLP21002X9A1	96.7	67.0
3	2.2	9.6	6KLP21003X9A1	97.1	85.1

Drive Efficiency and Watt Loss - 230 Vac, 3-Phase, 50/60 Hz Input

HP	kW	Amps	Product No.	Efficiency ¹	Watt Loss ¹
1/3	0.25	1.5	6KLP23F25X9A1	94.9	20.0
1/2	0.37	2.2	6KLP23F50X9A1	95.8	24.0
1	0.75	4.2	6KLP23001X9A1	96.3	39.5
2	1.5	6.8	6KLP23002X9A1	97.2	57.0
3	2.2	9.6	6KLP23003X9A1	97.4	77.1
5	3.7	15.2	6KLP23005X9A1	97.4	122.8

Drive Efficiency and Watt Loss - 460 Vac, 3-Phase, 50/60 Hz Input

HP	kW	Amps	Product No.	Efficiency ¹	Watt Loss ¹
1/2	0.37	1.2	6KLP43F50X9A1	95.5	25.5
1	0.75	2.2	6KLP43001X9A1	96.0	43.5
2	1.5	3.7	6KLP43002X9A1	97.2	56.5
3	2.2	5.3	6KLP43003X9A1	97.1	81.5
5	3.7	9	6KLP43005X9A1	98.0	133.5
7.5	5.5	12	6KLP43007X9A1	98.0	166.8
10	7.5	15.5	6KLP43010X9A1	98.0	217.5
15	11	23	6KLP43015X9A1	97.4	342
20	15	31	6KLP43020X9A1	97.4	454
25	18.5	37	6KLP43025X9A1	98.0	428
30	22	43	6KLP43030X9A1	97.9	520

¹At rated load conditions



AF-60 LP Micro Drive

Options, Accessories and Replacement Parts

Remote Mounting Kit for Keypad

Remote Mounting kit for mounting keypad on enclosure doors. Kit includes gasket, mounting brackets, and cable. Keypad is rated IP21.

Description	Product No.	List Price GO-5LP
Remote Mounting Kit for Keypad	RMKYPDACLP1	\$25.00



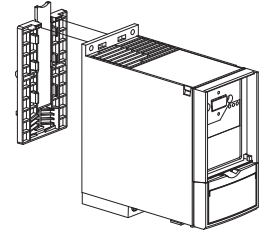
Remote Mounting Kit for Keypad

DIN Rail Mounting Kit for 1HP and below drives

This adapter can be used to mount AF-60 LP Micro Drives at 1HP and below to 35mm DIN Rail.

Description	Product No.	List Price GO-5LP
DIN Rail Mounting Kit for Unit Size M1 or M2 ¹	RMACLP1	\$20.00

¹M2 drives manufactured after July 2009.



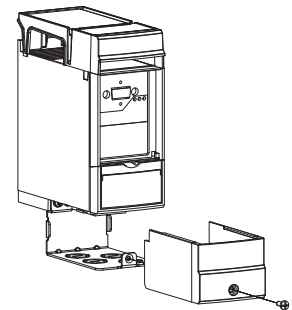
DIN Rail Mounting Kit for 1HP and below drives

NEMA 1 Kit

This kit can be mounted to the IP 20 protected AF-60 LP Micro Drives to provide NEMA Type 1 protection.

Description	Product No.	List Price GO-5LP
NEMA 1 Kit for 1HP and below drives	NEMA1ACLP1	\$30.00
NEMA 1 Kit for 2HP at 230V/3HP at 460V and below drives	NEMA1ACLP2	\$35.00
NEMA 1 Kit for 3HP at 230V/5HP at 460V and above drives	NEMA1ACLP3	\$40.00
NEMA 1 Kit for 15HP and 20HP at 460V drives	NEMA1ACLP4 ²	\$45.00
NEMA 1 Kit for 25HP and 30HP at 460V drives	NEMA1ACLP5 ²	\$50.00

²Please note that these NEMA 1 Kits only include bottom cover.

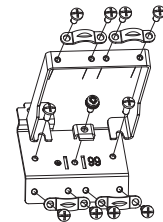


NEMA 1 Kit

De-Coupling Plate Kit

For EMC applications and strain relief for drive wiring.

Description	Product No.	List Price GO-5LP
De-Coupling Plate Kit for 2HP at 230V/3HP at 460V and below drives	DEPLTACLP1	\$15.00
De-Coupling Plate Kit for 3HP at 230V/5HP at 460V and above drives	DEPLTACLP2	\$15.00
De-Coupling Plate Kit for 15HP at 460V and above drives	DEPLTACLP3	\$20.00



De-Coupling Plate Kit

Replacement AF-60 LP Keypad with Potentiometer

LCD Keypad with potentiometer for the AF-60 LP Micro Drive. Keypad is removable under power and includes copycat feature to program multiple drives. Includes hand-off-auto keys for local control of drive and large parameter and operational data display. Menu key selects between drive status, quick menu, and main menu. LED indicators for Alarms, Warnings, and Power are also included on each keypad. Keypad dimensions are: 3.35 H x 2.56 W x 1.1 D w/pot in inches.

Description	Product No.	List Price GO-5LP
Replacement AF-60 LP Keypad with Potentiometer:	KYPDACLP1	\$60.00



Replacement AF-60 LP Keypad with Potentiometer



AF-60 LP Micro Drive Dynamic Braking Resistors

Dynamic Braking allows for faster deceleration rates then could be achieved via a coast to stop. Dynamic braking consists of the internal drive brake chopper and separate add-on dynamic braking resistors.

Important application notes:

- The AF-60 LP Micro Drive dynamic braking can be used for stopping a load with an inertia equal to or less than the applied motor's rotor inertia.
- High inertia or overhauling loads may cause extended deceleration times which could cause overheating and tripping of the drive.
- The dynamic braking is not a holding brake. It does not prevent a motor at rest from rotating.

Note: Refer to the drives' Operating Instruction for installation and connection details.

230 Vac

			Recommended Dynamic Braking Resistor							
Nominal Applied Motor HP	Max. Braking Torque (%)	Brake Chopper	10% Duty Cycle		40% Duty Cycle		Qty. Required	Total Ohms	Total kW	
			Product Number	List Price GO-5AC	Product Number	List Price GO-5AC			10% Duty Cycle	40% Duty Cycle
1/4	—	N/A	—		—		—	—	—	—
1/2	—	N/A	—		—		—	—	—	—
1	—	N/A	—		—		—	—	—	—
2	150	Built-in	DB2104TBNC	\$400.00	DB2404TBNC	\$600.00	1	65	0.25	0.8
3	150	Built-in	DB2105TBNC	\$400.00	DB2405TBNC	\$600.00	1	50	0.285	1
5	150	Built-in	DB2106TBNC	\$450.00	DB2406TBNC	\$675.00	1	25	0.8	3

460 Vac

Nominal Applied Motor HP	Max. Braking Torque (%)	Brake Chopper	Recommended Dynamic Braking Resistor				Qty. Required	Total Ohms	Total kW	
			10% Duty Cycle		40% Duty Cycle				10% Duty Cycle	40% Duty Cycle
			Product Number	List Price GO-5AC	Product Number	List Price GO-5AC				
1/2	—	N/A	—	—	—	—	—	—	—	
1	—	N/A	—	—	—	—	—	—	—	
2	150	Built-in	DB4103TBNC	\$525.00	DB4403TBNC	\$788.00	1	310	0.25	0.8
3	150	Built-in	DB4104TBNC	\$525.00	DB4404TBNC	\$788.00	1	210	0.285	1.35
5	150	Built-in	DB4105TBNC	\$600.00	DB4405TBNC	\$900.00	1	110	0.6	2.4
7.5	150	Built-in	DB4106TBNC	\$850.00	DB4406TBNC	\$1275.00	1	80	0.85	3
10	150	Built-in	DB4107TBNC	\$950.00	DB4407TBNC	\$1425.00	1	65	1	4.5



AF-60 LP Micro Drive Standard Specifications

Environmental Conditions

Enclosure	IP20 (NEMA 1 with optional NEMA 1 kit)
Installation Location	Do not install in locations where product could be exposed to dust, corrosive gas, inflammable gas, oil mist, vapor, water drops or direct sunlight. There must be no salt in the atmosphere. Condensation must not be caused by sudden changes in temperature. For use at altitudes of 3280 ft. (1000M) or less without derating.
Ambient Temperature	-10° to +50°C
Ambient Humidity	5 to 95% RH (non-condensing)
Vibration	1.0g
Storage Temperature	-25° to 65°C

Standards

Approvals	CE, UL, cUL, and C-Tick Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical amperes for 230V and 460V. WEEE and RoHS Compliant
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Input Power Supply

Rated Input AC Voltage	200-240 Vac, 1-phase, 50-60 Hz, +/- 10% V 200-240 Vac, 3-phase, 50-60 Hz, +/- 10% V 380-480 Vac, 3-phase, 50-60 Hz, +/- 10% V
Maximum Voltage Imbalance	3% of rated supply voltage
True Power Factor	> 0.4 nominal at rated load
Displacement Power Factor	> 0.98
Switching on input power supply	Maximum twice/minute
Environment according to EN60664-1	Overvoltage category III/pollution degree 2

Output

Rated Output Voltage	0-100% of supply voltage
Output Frequency	0-200 Hz (Adv. Vector Control Plus Mode), 0-400 Hz (Volts/Hertz Mode)
Switching on output	Unlimited
Accel/Decel Times	0.05-3600 seconds
Overload Current Rating	150% of drive rated current for 1 minute

Control

Control Method	Sinusoidal PWM Control (V/Hz with torque vector control)
Switching Frequency Select	2, 4, 8, 12, 16 kHz
Operation Method	Keypad operation: Hand, Off, Auto Digital Input: Programmable for Start/Stop, Forward/Reverse, Jog Timer operation: Stop after predetermined time frame Link operation: RS-485 Modbus RTU
Frequency Reference Setting	Up or Down buttons on keypad or external reference
Analog Input	Built in Potentiometer 0-10 Vdc analog input 4-20ma analog input
Preset Speeds	8 presets via digital inputs
Link Operation	Drive RS-485 or Modbus RTU
Second Reference Setting	Switch from speed reference 1 to reference 2 via digital input
Trim Reference Setting	Available for speed reference offset via potentiometer, voltage input, or current input
Acceleration/Deceleration Time	0.05-3600 seconds (two acceleration and deceleration rates are selectable via digital inputs. Acceleration and deceleration patterns can be selected from linear or S-curve
DC Injection Braking	Starting frequency: 0.0-400 Hz Braking time: 0.0-60.0 seconds Braking level: 0-150% of rated current
Frequency Limit	0-400 Hz
Jump Frequency Control	Two jump (or skip) frequencies via parameter set to avoid mechanical vibration
Jogging Operation	Operation via On key or digital input (Fwd or Rev)
Auto-Restart After Power Failure	Restarts the drive without stopping after instantaneous power failure
Slip Compensation	Maintains motor at constant speed with load fluctuations
Energy Savings	Controls output voltage to minimize motor loss during constant speed operation
Start Mode Function	This functionality smoothly catches a spinning motor

Logic Controller (LC)

Logic Controller Events	Over 23 types of Programmable Events
Comparators	Array of 4 Comparators
Timers	Array of 3 Timers, adjustable from 0.0 to 3600 sec
Logic Rules	Array of 4 Boolean Logic Rules
Logic Controller States	Array of 20 Logic Controller Action States

Process Controller (PI)

Process CL Feedback Select	No function, analog input 1, analog input 2, pulse input, local bus reference
Process PI Control	Normal or Inverse
Process PI Anti Windup	Disabled or enabled
Process PI Start Speed	0.0-200 Hz
Process PI Proportional Gain	0.00-10.00
Process PI Integral Gain	0.10-9999 seconds
Process PI Feed Forward Factor	0-400%
On Reference Bandwidth	0-200%

Indication

LEDs	Green - drive is on Yellow - indicates a warning Red - indicates an alarm
Monitor Units Available	Frequency, current, voltage, power, horsepower, % load, speed, or time

Trip Codes

2	Live Zero Error
4	Line Phase Loss
7	DC Overvoltage
8	DC Undervoltage
9	Drive Overload
10	Motor Overtemperature
11	Motor Thermistor Overtemperature
12	Torque Limit
13	Overcurrent
14	Ground Fault
16	Short Circuit
17	Control Word Timeout
25	Brake Resistor Short-Circuited
27	Brake Chopper Short-Circuited
28	Brake Check
29	Power Board Overtemperature
30	Missing U Phase
31	Missing V Phase
32	Missing W Phase
38	Internal Fault
47	Control Voltage Fault
51	Auto Tune Check - Wrong Motor Parameters
52	Auto Tune Low Inom - Motor current is too low
59	Current Limit
63	Mechanical Brake Low
80	Drive restored to factory settings

Monitoring Parameters Available

Power	kW
Power	HP
Motor Voltage	V
Frequency	Hz
Motor Current	A
Frequency	%
Motor Thermal	%
DC Link Voltage	V
Drive Current	A
Drive Max Current	A
Logic Controller State	On/Off



AF-650 GP General Purpose Drive

Product Description

The AF-650 GP General Purpose Drive is a powerful, flexible, and easy to use drive with many standard features. It is ideally suited for both Heavy Duty and Light Duty applications. Available ratings include: 208/230V from 1/2 to 50HP, 460V from 1/2 to 1200HP, 575V from 1/2 to 100HP and 575/690V from 15 to 1350HP.

The drive is available in its standard configuration that includes an IP20 or IP00 Chassis, LCD Keypad that can be remote mounted, built-in DC Link Reactors, built-in Modbus RTU communications network, and RFI A2 filter. Standard features like Auto Tuning, process PID controller, energy savings mode and Logic Controller make the AF-650 GP drive ideal for all your conveyor, extruder, machine tool or light duty variable torque applications. Its Quick Menu, Info Key (online manual), and full description keypad make it a time saver during start-up and commissioning.

Optional accessories include network communications modules for DeviceNet, Profibus DP, EtherNet IP, and soon to be available Modbus TCP/IP and Profinet RT. Drives are also available in IP54/55/NEMA 12, and IP66/NEMA 4X drive types. Optional IP21/NEMA 1 kits are available for all IP20 (100HP and below) Chassis units. Additionally, add on I/O modules, brake chopper, dynamic brake resistors, and conformal coated boards allow the drive to meet all your application needs.



AF-650 GP General Purpose Drive

Product Numbering System Diagram

(Product number for illustrative purposes only)

Description	6K	GP	2	3	F50	X	2	R	B	C	A1
GE Product Code											Revision A1 = 1st Revision A2 = Future
Drive GP = AF-650 General Purpose Drive											Conformal Coating X = No Conformal Coatings C = Conformal Coatings
Input Voltage 2 = 208/230V, 50/60 Hz 4 = 460V, 50/60 Hz 5 = 575V, 50/60 Hz 6 = 575V-690V, 50/60 Hz										Brake Chopper X = No Factory Installed Brake Chopper B = Factory Installed Brake Chopper	
Input Phase 3 = 3-Phase										A1/B RFI Filter X = No A1/B RFI Filter Installed R = A1/B RFI Filter Installed	
HP Rating F50 = 1/2 HP 010 = 10 HP 100 = 100 HP 1K0 = 1000 HP									Drive Type 1 = IP21/Type 1 2 = IP55/NEMA 12 4 = IP66/NEMA 4X 9 = IP20/Open 8 = IP00/Open		
											Factory Installed Keypad X = Keypad

Visit <http://www.geindustrial.com/drives> for additional product information including programming guides, drawings, programming software, an energy savings calculator, and much more.



AF-650 GP General Purpose Drive

Pricing

230V, 3-Phase, 50/60Hz Input

										List Price Adders, GO-5GP						
Heavy Duty Rating				Light Duty Rating				Standard Unit ¹ Includes:	Standard Unit Product No.	List Price GO-5GP	Drive Type (Digit 11)			Factory Installed Options (Digit 12) (Digit 13) (Digit 14)		
HP Rating	kW Rating	Rated Output	Overload	Hp Rating	kW Rating	Rated Output	Overload				(9)	(2)	(4)	(R)	(B)	(C)
		Amps	(1 Min)			Amps	(1 Min)				IP20 Chassis	IP55 NEMA 12	IP66 NEMA 4X	RFI filter A1/B	Brake Chopper	Conformal Coating
0.33	0.25	1.8	2.88	0.33	0.25	1.8	2.88	IP20 (9) Chassis RFI: A2 Keypad	6KGP23F33X9XXXXA1	\$750.00	std	\$250.00	\$550.00	\$90.00	\$75.00	\$210.00
0.5	0.37	2.4	3.84	0.5	0.37	2.4	3.84		6KGP23F50X9XXXXA1	\$775.00	std	\$250.00	\$550.00	\$90.00	\$75.00	\$210.00
1	0.75	4.6	7.36	1	0.75	4.6	7.36		6KGP23001X9XXXXA1	\$875.00	std	\$250.00	\$550.00	\$120.00	\$75.00	\$210.00
2	1.5	7.5	12	2	1.5	7.5	12		6KGP23002X9XXXXA1	\$990.00	std	\$250.00	\$550.00	\$160.00	\$90.00	\$210.00
3	2.2	10.6	16.96	3	2.2	10.6	16.96		6KGP23003X9XXXXA1	\$1200.00	std	\$250.00	\$550.00	\$200.00	\$115.00	\$210.00
5	3.7	16.7	26.72	5	3.7	16.7	26.72		6KGP23005X9XXXXA1	\$1450.00	std	\$275.00	\$575.00	\$250.00	\$150.00	\$210.00
7.5	5.5	24.2	38.72	7.5/10	5.5/7.5	30.8	33.88		6KGP23007X9XXXXA1	\$1525.00	std	\$555.00	\$920.00	\$475.00	\$180.00	\$210.00
10	7.5	30.8	49.28	15	11	46.2	50.82		6KGP23010X9XXXXA1	\$1725.00	std	\$555.00	\$920.00	\$550.00	\$210.00	\$210.00
15	11	46.2	73.92	20	15	59.4	65.34		6KGP23015X9XXXXA1	\$2400.00	std	\$960.00	\$1600.00	\$715.00	\$285.00	\$210.00
20	15	59.4	89.1	25	18.5	74.8	82.28		6KGP23020X9XXXXA1	\$2900.00	std	\$960.00	\$1950.00	\$730.00	\$360.00	\$210.00
25	18.5	74.8	112.2	30	22	88	96.8		6KGP23025X9XXXXA1	\$3500.00	std	\$1100.00	\$2390.00	\$875.00	\$410.00	\$210.00
30	22	88	132	40	30	115	126.5		6KGP23030X9XXXXA1	\$4025.00	std	\$1100.00	\$2870.00	\$1200.00	\$530.00	\$210.00
40	30	115	172.5	50	37	143	157.3		6KGP23040X9XXXXA1	\$6450.00	std	\$1700.00	\$3270.00	\$1560.00	\$670.00	\$210.00
50	37	143	214.5	60	45	170	187		6KGP23050X9XXXXA1	\$7550.00	std	\$1700.00	\$3750.00	\$1750.00	\$825.00	\$210.00

¹IP21/NEMA 1 Kits are available as Field Installed Options for all 230V drives from 0.33 HP to 50 HP. See Page 16.

460V, 3-Phase, 50/60Hz Input

										List Price Adders, GO-5GP						
Heavy Duty Rating				Light Duty Rating				Standard Unit ² Includes:	Standard Unit Product No.	List Price GO-5GP	Drive Type (Digit 11)			Factory Installed Options (Digit 12) (Digit 13) (Digit 14)		
HP Rating	kW Rating	Rated Output	Overload	Hp Rating	kW Rating	Rated Output	Overload				(9)	(2)	(4)	(R)	(B)	(C)
		Amps	(1 Min)			Amps	(1 Min)				IP20 Chassis	IP55 NEMA 12	IP66 NEMA 4X	RFI filter A1/B	Brake Chopper	Conformal Coating
0.5	0.37	1.2	1.92	0.5	0.37	1.2	1.92	IP20 (9) Chassis RFI: A2 Keypad	6KGP43F50X9XXXXA1	\$995.00	std	\$250.00	\$550.00	\$90.00	\$75.00	\$210.00
1	0.75	2.1	3.36	1	0.75	2.1	3.36		6KGP43001X9XXXXA1	\$1025.00	std	\$250.00	\$550.00	\$120.00	\$75.00	\$210.00
2	1.5	3.4	5.44	2	1.5	3.4	5.44		6KGP43002X9XXXXA1	\$1095.00	std	\$250.00	\$550.00	\$160.00	\$100.00	\$210.00
3	2.2	4.8	7.68	3	2.2	4.8	7.68		6KGP43003X9XXXXA1	\$1275.00	std	\$250.00	\$550.00	\$200.00	\$125.00	\$210.00
5	4	8.2	13.12	5	4	8.2	13.12		6KGP43005X9XXXXA1	\$1500.00	std	\$250.00	\$550.00	\$245.00	\$150.00	\$210.00
7.5	5.5	11	17.6	7.5	5.5	11	17.6		6KGP43007X9XXXXA1	\$1800.00	std	\$275.00	\$575.00	\$290.00	\$180.00	\$210.00
10	7.5	14.5	23.2	10	7.5	14.5	23.2		6KGP43010X9XXXXA1	\$2160.00	std	\$275.00	\$575.00	\$335.00	\$210.00	\$210.00
15	11	21	33.6	15/20	11/15	27	29.7		6KGP43015X9XXXXA1	\$2700.00	std	\$555.00	\$920.00	\$465.00	\$285.00	\$210.00
20	15	27	43.2	25	18.5	34	37.4		6KGP43020X9XXXXA1	\$3275.00	std	\$555.00	\$920.00	\$545.00	\$360.00	\$210.00
25	18.5	34	54.4	30	22	40	44		6KGP43025X9XXXXA1	\$3950.00	std	\$960.00	\$1600.00	\$620.00	\$410.00	\$210.00
30	22	40	64	40	30	52	57.2		6KGP43030X9XXXXA1	\$4750.00	std	\$960.00	\$1600.00	\$710.00	\$460.00	\$210.00
40	30	52	91.5	50	37	65	71.5		6KGP43040X9XXXXA1	\$5900.00	std	\$960.00	\$1600.00	\$730.00	\$580.00	\$210.00
50	37	65	109.5	60	45	80	88		6KGP43050X9XXXXA1	\$7235.00	std	\$1100.00	\$1950.00	\$865.00	\$720.00	\$210.00
60	45	80	135	75	55	105	115.5		6KGP43060X9XXXXA1	\$8290.00	std	\$1100.00	\$1950.00	\$1170.00	\$860.00	\$210.00
75	55	105	159	100	75	130	143		6KGP43075X9XXXXA1	\$10100.00	std	\$1700.00	\$3270.00	\$1555.00	\$980.00	\$210.00
100	75	130	220.5	125	90	160	176		6KGP43100X9XXXXA1	\$13100.00	std	\$1700.00	\$3750.00	\$1735.00	\$1120.00	\$210.00

²IP21/NEMA 1 Kits are available as Field Installed Options for all 460V drives from 0.5 HP to 100 HP. See Page 16.

460V, 3-Phase, 50/60Hz Input

										List Price Adders, GO-5GP						
Heavy Duty Rating				Light Duty Rating				Standard Unit Includes:	Standard Unit Product No.	List Price GO-5GP	Drive Type (Digit 11)			Factory Installed Options (Digit 12) (Digit 13) (Digit 14)		
HP Rating	kW Rating	Rated Output	Overload	Hp Rating	kW Rating	Rated Output	Overload				(8)	(1)	(2)	(R)	(B)	(C)
		Amps	(1 Min)			Amps	(1 Min)				IP00 Chassis	IP21 NEMA 1	IP54 NEMA 12	RFI filter A1/B	Brake Chopper	Conformal Coating
125	90	160	240	150	110	190	209	IP00 (8) Chassis RFI: A2 Keypad	6KGP43125X8XXXXA1	\$15900.00	std	\$1250.00	\$3470.00	\$2120.00	\$1275.00	\$705.00
150	110	190	285	200	132	240	264		6KGP43150X8XXXXA1	\$17250.00	std	\$1250.00	\$3470.00	\$2565.00	\$1575.00	\$705.00
200	132	240	360	250	160	302	332.2		6KGP43200X8XXXXA1	\$20800.00	std	\$1250.00	\$3470.00	\$3140.00	\$1850.00	\$705.00
250	160	302	453	300	200	361	397.1		6KGP43250X8XXXXA1	\$22900.00	std	\$1250.00	\$3470.00	\$3750.00	\$2225.00	\$705.00
300	200	361	541.5	350	250	443	487.3		6KGP43300X8XXXXA1	\$27500.00	std	\$2600.00	\$6075.00	\$4475.00	\$2905.00	\$705.00
350	250	443	664.5	450	315	540	594	IP00 (8) Chassis RFI: A2 Keypad Conformal Coated	6KGP43350X8XXXXA1	\$32400.00	std	\$3500.00	\$6075.00	\$5420.00	\$3195.00	std
450	315	540	810	500	355	590	649		6KGP43450X8XXXXA1	\$37950.00	std	\$3500.00	\$6075.00	\$6390.00	\$4375.00	std
500	355	590	885	550	400	678	745.8		6KGP43500X8XXXXA1	\$54000.00	std	\$3500.00	\$6075.00	\$7260.00	\$4650.00	std
550	400	678	1017	600	450	730	803		6KGP43550X8XXXXA1	\$65000.00	std	\$3500.00	\$6075.00	\$7260.00	\$5180.00	std
600	450	730	1095	650	500	780	858		6KGP43600X1XXCA1	\$69500.00	N/A	std	\$6500.00	\$11655.00	\$17170.00	std
650	500	780	1170	750	560	890	979	IP21/NEMA 1 (1) RFI: A2 Keypad Conformal Coated	6KGP43650X1XXCA1	\$82300.00	N/A	std	\$6500.00	\$13085.00	\$8050.00	std
750	560	890	1335	900	630	1050	1155		6KGP43750X1XXCA1	\$93800.00	N/A	std	\$6500.00	\$14890.00	\$9160.00	std
900	630	1050	1575	1000	710	1160	1276		6KGP43900X1XXCA1	\$109995.00	N/A	std	\$6500.00	\$17295.00	\$10640.00	std
1000	710	1160	1740	1200	800	1380	1518		6KGP431K0X1XXCA1	\$125500.00	N/A	std	\$7600.00	\$19735.00	\$12150.00	std
1200	800	1380	2070	1350	1000	1530	1683		6KGP431K2X1XXCA1	\$145835.00	N/A	std	\$8800.00	\$22930.00	\$14110.00	std



AF-650 GP General Purpose Drive Pricing

575V, 3-Phase, 50/60Hz Input

									List Price Adders, GO-5GP							
Heavy Duty Rating				Light Duty Rating				Standard Unit ¹ Includes:	Standard Unit Product No.	List Price GO-5GP	Drive Type (Digit 11)			Factory Installed Options (Digit 12) (Digit 13) (Digit 14)		
HP Rating	kW Rating	Rated Output Amps	Overload Amps (1 Min)	Hp Rating	kW Rating	Rated Output Amps	Overload Amps (1 Min)				(9) IP20 Chassis	(2) IP55 NEMA 12	(4) IP66 NEMA 4X	(R) RFI filter A1/B	(B) Brake Chopper	(C) Conformal Coating
1	0.75	1.8	2.88	1	0.75	1.8	2.88	IP20 (9) Chassis Keypad	6KGP53001X9XXXXA1	\$1155.00	std	\$250.00	\$550.00	N/A	\$75.00	\$210.00
2	1.5	2.7	4.32	2	1.5	2.7	4.32		6KGP53002X9XXXXA1	\$1240.00	std	\$250.00	\$550.00	N/A	\$100.00	\$210.00
3	2.2	3.9	6.24	3	2.2	3.9	6.24		6KGP53003X9XXXXA1	\$1450.00	std	\$250.00	\$550.00	N/A	\$125.00	\$210.00
5	4	6.1	9.76	5	4	6.1	9.76		6KGP53005X9XXXXA1	\$1705.00	std	\$250.00	\$550.00	N/A	\$150.00	\$210.00
7.5	5.5	9	14.4	7.5	5.5	9	14.4		6KGP53007X9XXXXA1	\$2050.00	std	\$275.00	\$575.00	N/A	\$180.00	\$210.00
10	7.5	11	17.6	10	7.5	11	17.6		6KGP53010X9XXXXA1	\$2475.00	std	\$275.00	\$575.00	N/A	\$210.00	\$210.00
15	11	18	28.8	15/20	11/15	22	24.2		6KGP53015X9XXXXA1	\$3090.00	std	\$555.00	\$920.00	N/A	\$285.00	\$210.00
20	15	22	35.2	25	18.5	27	29.7		6KGP53020X9XXXXA1	\$3750.00	std	\$555.00	\$920.00	N/A	\$360.00	\$210.00
25	18.5	27	43.2	30	22	34	37.4		6KGP53025X9XXXXA1	\$4525.00	std	\$960.00	\$1600.00	N/A	\$410.00	\$210.00
30	22	34	54.4	40	30	41	45.1		6KGP53030X9XXXXA1	\$5445.00	std	\$960.00	\$1600.00	N/A	\$460.00	\$210.00
40	30	41	65.6	50	37	52	57.2		6KGP53040X9XXXXA1	\$6770.00	std	\$960.00	\$1600.00	N/A	\$580.00	\$210.00
50	37	52	83.2	60	45	62	68.2		6KGP53050X9XXXXA1	\$8300.00	std	\$1100.00	\$1950.00	N/A	\$720.00	\$210.00
60	45	62	99.2	75	55	83	91.3		6KGP53060X9XXXXA1	\$9520.00	std	\$1100.00	\$1950.00	N/A	\$860.00	\$210.00
75	55	83	132.8	100	75	100	110		6KGP53075X9XXXXA1	\$11600.00	std	\$1700.00	\$3270.00	N/A	\$980.00	\$210.00
100	75	100	160	125	90	131	144.1		6KGP53100X9XXXXA1	\$15050.00	std	\$1700.00	\$3750.00	N/A	\$1120.00	\$210.00

¹IP21/NEMA 1 Kits are available as Field Installed Options for all 575V drives from 1 HP to 100 HP. See Page 16.

575/690V², 3-Phase, 50/60Hz Input

										List Price Adders, GO-5GP						
Heavy Duty Rating				Light Duty Rating				Standard Unit Includes:	Standard Unit Product No.	List Price GO-5GP	Drive Type (Digit 11)		Factory Installed Options (Digit 12) (Digit 13) (Digit 14)			
HP ² Rating	kW Rating	Rated Output Amps	Overload Amps (1 Min)	Hp ² Rating	kW Rating	Rated Output Amps	Overload Amps (1 Min)				(1) IP21 NEMA 1	(2) IP55 NEMA 12	(4) IP66 NEMA 4X	(R) RFI filter A1/B	(B) Brake Chopper	(C) Conformal Coating
15	11	13	20.8	20	15	18	20	IP21/NEMA 1 (1) RFI: A2 Keypad	6KGP63015X1XXXXA1	\$2875.00	std	\$640.00	\$1060.00	\$535.00	\$330.00	\$240.00
20	15	18	28.8	25	18.5	22	24		6KGP63020X1XXXXA1	\$3500.00	std	\$800.00	\$1340.00	\$625.00	\$415.00	\$240.00
25	18.5	22	35.2	30	22	27	30		6KGP63025X1XXXXA1	\$4140.00	std	\$950.00	\$1580.00	\$710.00	\$470.00	\$240.00
30	22	27	43.2	40	30	34	37		6KGP63030X1XXXXA1	\$4825.00	std	\$1105.00	\$1840.00	\$820.00	\$530.00	\$240.00
40	30	34	51	50	37	41	45		6KGP63040X1XXXXA1	\$5635.00	std	\$1170.00	\$2240.00	\$840.00	\$670.00	\$240.00
50	37	41	61.5	60	45	52	56		6KGP63050X1XXXXA1	\$6825.00	std	\$1430.00	\$2750.00	\$995.00	\$825.00	\$240.00
60	45	52	76.5	75	55	62	68		6KGP63060X1XXXXA1	\$7880.00	std	\$1720.00	\$3300.00	\$1350.00	\$990.00	\$240.00
75	55	62	93	100	75	83	91		6KGP63075X1XXXXA1	\$9780.00	std	\$1960.00	\$3760.00	\$1790.00	\$1125.00	\$240.00
100	75	83	124.5	125	90	100	110		6KGP63100X1XXXXA1	\$12175.00	std	\$2245.00	\$4315.00	\$1995.00	\$1290.00	\$240.00

²690V horsepower ratings. Please consult AF-650 GP Manuals for 575V ratings.

575/690V², 3-Phase, 50/60Hz Input

									List Price Adders, GO-5GP							
Heavy Duty Rating				Light Duty Rating				Standard Unit Includes:	Standard Unit Product No.	List Price GO-5GP	Drive Type (Digit 11)			Factory Installed Options (Digit 12) (Digit 13) (Digit 14)		
HP ² Rating	kW Rating	Rated Output	Overload	Hp ² Rating	kW Rating	Rated Output	Overload				(8)	(1)	(2)	(R)	(B)	(C)
		Amps	(1 Min)			Amps	(1 Min)				IP00	IP21	IP54	RFI filter	Brake	Conformal
											Chassis	NEMA 1	NEMA 12	A1/B	Chopper	Coating
125	90	108	162	150	110	131	144	IP00 (8) Chassis RFI: A2 Keypad Conformal Coated	6KGP63125X8XXCA1	\$15270.00	std	\$1190.00	\$3990.00	N/A	\$1810.00	std
150	110	131	196.5	200	132	155	171		6KGP63150X8XXCA1	\$17610.00	std	\$1190.00	\$3990.00	N/A	\$1810.00	std
200	132	155	232.5	250	160	192	211		6KGP63200X8XXCA1	\$21650.00	std	\$1190.00	\$3990.00	N/A	\$2125.00	std
250	160	192	288	300	200	242	266		6KGP63250X8XXCA1	\$25325.00	std	\$1190.00	\$3990.00	N/A	\$2560.00	std
300	200	242	363	350	250	290	319		6KGP63300X8XXCA1	\$27695.00	std	\$3525.00	\$3990.00	N/A	\$3340.00	std
350	250	290	435	400	315	344	378		6KGP63350X8XXCA1	\$31360.00	std	\$3525.00	\$6990.00	N/A	\$3675.00	std
400	315	344	516	500	400	400	440		6KGP63400X8XXCA1	\$36875.00	std	\$3525.00	\$6990.00	N/A	\$5030.00	std
500	355	380	570	600	450	450	495		6KGP63500X8XXCA1	\$51565.00	std	\$3525.00	\$6990.00	N/A	\$4920.00	std
550	400	410	615	650	500	500	550		6KGP63550X8XXCA1	\$71500.00	std	\$7500.00	\$11170.00	N/A		std
650	500	500	750	750	560	570	627		6KGP63650X8XXCA1	\$90530.00	std	\$7500.00	\$11170.00	N/A		std
750	560	570	855	800	630	630	693	IP21/NEMA 1 (1) RFI: A2 Keypad Conformal Coated	6KGP63750X8XXCA1	\$95550.00	std	\$7500.00	\$11170.00	N/A		std
900	630	630	945	1000	710	730	803		6KGP63900X1XXCA1	\$120965.00	std	std	\$11170.00	N/A	consult factory	std
1000	710	730	1095	1200	800	850	935		6KGP631K0X1XXCA1	\$138070.00	N/A	std	\$11170.00	N/A		std
1150	800	850	1275	1300	900	945	1040		6KGP631K1X1XXCA1	\$160400.00	N/A	std	\$11170.00	N/A		std
1250	900	945	1417.5	1400	1000	1060	1166		6KGP631K2X1XXCA1	\$181535.00	N/A	std	\$11170.00	N/A		std
1350	1000	1060	1590	1600	1200	1260	1386		6KGP631K3X1XXCA1	\$200500.00	N/A	std	\$11170.00	N/A		std

²690V horsepower ratings. Please consult AF-650 GP Manuals for 575V ratings.



AF-650 GP General Purpose Drive

Field Installed IP21/NEMA 1 Add-On Option Kits

IP21/NEMA 1 Add-On Option Kits

Voltage	HP Rating	KW Rating	IP21/NEMA 1 Kit Product No.	List Price GO-SAC	Fits AF-650 GP IP20 Drive Product No.
230	0.33	0.25	NEMA1ACA2	\$110.00	6KGP23F25X9XXXXA1
	0.5	0.37	NEMA1ACA2	\$110.00	6KGP23F50X9XXXXA1
	1	0.75	NEMA1ACA2	\$110.00	6KGP23001X9XXXXA1
	2	1.5	NEMA1ACA2	\$110.00	6KGP23002X9XXXXA1
	3	2.2	NEMA1ACA2	\$110.00	6KGP23003X9XXXXA1
	5	3.7	NEMA1ACA3	\$115.00	6KGP23005X9XXXXA1
	7.5	5.5	NEMA1ACB3	\$140.00	6KGP23007X9XXXXA1
	10	7.5	NEMA1ACB3	\$140.00	6KGP23010X9XXXXA1
	15	11	NEMA1ACB4	\$150.00	6KGP23015X9XXXXA1
	20	15	NEMA1ACB4	\$150.00	6KGP23020X9XXXXA1
	25	18.5	NEMA1ACC3	\$160.00	6KGP23025X9XXXXA1
	30	22	NEMA1ACC3	\$160.00	6KGP23030X9XXXXA1
	40	30	NEMA1ACC4	\$175.00	6KGP23040X9XXXXA1
	50	37	NEMA1ACC4	\$175.00	6KGP23050X9XXXXA1
	0.5	0.37	NEMA1ACA2	\$110.00	6KGP43F50X9XXXXA1
	1	0.75	NEMA1ACA2	\$110.00	6KGP43001X9XXXXA1
	2	1.5	NEMA1ACA2	\$110.00	6KGP43002X9XXXXA1
460	3	2.2	NEMA1ACA2	\$110.00	6KGP43003X9XXXXA1
	5	3.7	NEMA1ACA2	\$110.00	6KGP43005X9XXXXA1
	7.5	5.5	NEMA1ACA3	\$115.00	6KGP43007X9XXXXA1
	10	7.5	NEMA1ACA3	\$115.00	6KGP43010X9XXXXA1
	15	11	NEMA1ACB3	\$140.00	6KGP43015X9XXXXA1
	20	15	NEMA1ACB3	\$140.00	6KGP43020X9XXXXA1
	25	18.5	NEMA1ACB4	\$150.00	6KGP43025X9XXXXA1
	30	22	NEMA1ACB4	\$150.00	6KGP43030X9XXXXA1
	40	30	NEMA1ACB4	\$150.00	6KGP43040X9XXXXA1
	50	37	NEMA1ACC3	\$160.00	6KGP43050X9XXXXA1
	60	45	NEMA1ACC3	\$160.00	6KGP43060X9XXXXA1
	75	55	NEMA1ACC4	\$175.00	6KGP43075X9XXXXA1
	100	75	NEMA1ACC4	\$175.00	6KGP43100X9XXXXA1
	1	0.75	NEMA1ACA3	\$115.00	6KGP53001X9XXXXA1
	2	1.5	NEMA1ACA3	\$115.00	6KGP53002X9XXXXA1
	3	2.2	NEMA1ACA3	\$115.00	6KGP53003X9XXXXA1
575	5	3.7	NEMA1ACA3	\$115.00	6KGP53005X9XXXXA1
	7.5	5.5	NEMA1ACA3	\$115.00	6KGP53007X9XXXXA1
	10	7.5	NEMA1ACA3	\$115.00	6KGP53010X9XXXXA1
	15	11	NEMA1ACB3	\$140.00	6KGP53015X9XXXXA1
	20	15	NEMA1ACB3	\$140.00	6KGP53020X9XXXXA1
	25	18.5	NEMA1ACB4	\$150.00	6KGP53025X9XXXXA1
	30	22	NEMA1ACB4	\$150.00	6KGP53030X9XXXXA1
	40	30	NEMA1ACB4	\$150.00	6KGP53040X9XXXXA1
	50	37	NEMA1ACC3	\$160.00	6KGP53050X9XXXXA1
	60	45	NEMA1ACC3	\$160.00	6KGP53060X9XXXXA1
	75	55	NEMA1ACC4	\$175.00	6KGP53075X9XXXXA1
	100	75	NEMA1ACC4	\$175.00	6KGP53100X9XXXXA1
	125	90	NEMA1ACC4	\$175.00	6KGP53125X9XXXXA1



AF-650 GP General Purpose Drive

Options and Accessories

Remote Mounting Kit for graphical LCD Keypad

Remote Mounting Kit for mounting graphical LCD Keypad on enclosure door. Kit includes gasket, mounting brackets, and cable. Keypad is rated IP65.

Description	Product Number	List Price GO-5AC
Remote Mounting Kit for graphical LCD Keypad	RMKYPDAC	\$95.00
Remote Mounting Kit without cable	OPCRMKNC	\$85.00



Remote Mounting Kit

Profibus DP Communications Module

Profibus DP internal drive mounted module for use on AF-650 GP and AF-600 FP drives. Supports Profibus DP V1 communications networks.

Description	Product Number	List Price GO-5AC
Profibus DP Communications Module	OPCPDP	\$725.00



Profibus DP Communications Module

DeviceNet Communications Module

DeviceNet internal drive mounted module for use on AF-650 GP and AF-600 FP drives. ODVA certified device.

Description	Product Number	List Price GO-5AC
DeviceNet Communications Module	OPCDEV	\$600.00



DeviceNet Communications Module

Ethernet IP Communications Module¹

Ethernet IP internal drive mounted module for use on AF-650 GP and AF-600 FP drives. ODVA certified device. Features 2-Port built-in switch. Also includes webserver and email notification.

Description	Product Number	List Price GO-5AC
Ethernet/IP Communications Module	OPCEIP	\$700.00

¹Requires I/O and network slots and cannot be used with any other network or I/O modules.

Modbus TCP Communications Module

Modbus TCP internal drive mounted module for use on AF-650 GP and AF-600 FP drives.

Description	Product Number	List Price GO-5AC
Modbus TCP Communications Module	OPCMBTCP	\$700.00



General Purpose I/O Module

ProfiNet RT Communications Module

ProfiNet RT internal drive mounted module for use on AF-650 GP and AF-600 FP drives.

Description	Product Number	List Price GO-5AC
ProfiNet RT Communications Module	OPCPRT	\$700.00

General Purpose I/O Module

General Purpose I/O internal drive mounted module for use on AF-650 GP and AF-600 FP drives. Module includes:

- 3) 24V Digital Inputs
- 2) PNP/NPN Digital Outputs
- 2) 0-10V Analog Inputs
- 1) 0/4-20mA Analog Output

Description	Product Number	List Price GO-5AC
General Purpose I/O Module	OPCGPIO	\$475.00



AF-650 GP General Purpose Drive

Options and Accessories

Encoder Module

Encoder internal drive mounted module for use on the AF-650 GP drive. Module supports all 5V incremental encoders. Also supports Hyperface SinCos encoders.

Description	Product Number	List Price GO-5AC
Encoder Input Module	OPCENC	\$400.00



Encoder Module

Resolver Module

Resolver internal drive mounted module for use on the AF-650 GP drive. Module supports 4-8Vrms, 2.5kHz - 15kHz, 50mA resolvers. Resolution is 10bit at 4Vrms.

Description	Product Number	List Price GO-5AC
Resolver Input Module	OPCRES	\$400.00



Resolver Module

Relay Output Module

Relay Output internal drive mounted module for use on the AF-650 GP and AF-600 drives. Module adds (3) Form C relay outputs to the drive. Relays are rated at 2A at 240V resistive load.

Description	Product Number	List Price GO-5AC
Relay Output Module	OPCRLY	\$475.00



Relay Output Module

24V DC External Supply Module

24V DC External Supply internal drive mounted module for use on the AF-650 GP and AF-600 FP drives. This module accepts an external 24V DC supply which is used to keep the control board of the drive and other option modules powered in the event of a Line side power outage. Can be used with Communications and I/O Modules.

Description	Product Number	List Price GO-5AC
24V DC External Supply Module	OPC24VPS	\$240.00



24V DC External Supply Module

Safe PLC I/O Module

Safe PLC I/O internal drive mounted module for use on the AF-650 GP drive. This module provides a safety input based on a single pole 24V DC input.

Description	Product Number	List Price GO-5AC
Safe PLC I/O Module	OPCSAFE	\$450.00



Safe PLC I/O Module

Screw Terminal Accessory

Screw Terminal Accessory is available for field installation on AF-650 GP™ and AF-600 FP™ drives. These screw terminals can replace the cage clamp terminals which ship with each drive. This set of three terminals are for the digital inputs, analog I/O, and RS485 connection.

Description	Product Number	List Price GO-5AC
Screw Terminal Accessory	OPCTERM	\$25.00



AF-650 GP General Purpose Drive

Options and Accessories

Pedestal Kit

Pedestal Kit allows Unit Size 41 and 42 drives (NEMA 1 and 12, 150HP to 350/400HP at 460V/575V AF-600 FP and 125HP to 300/400HP at 460/690V AF-650 GP) to be floor mounted.

Description	Product Number	List Price GO-5AC
Pedestal Kit	OPC4XPED	\$875.00

USB Kit

This kit allows for the USB programming terminal to be brought out to the front cover of the drive. Works with all drive types.

Description	Product Number	List Price GO-5AC
For all drives up to Unit Size 5X	OPCUSB	\$75.00
For all Unit Size 6X drives	OPCUSB6X	\$225.00

Power Shields

These shields are used to cover the drive power terminals on NEMA 1 and NEMA 12 drive types.

Description	Product Number	List Price GO-5AC
For Unit Size 41 and 42 drives	OPCCOVER4142	\$520.00
For Unit Size 51 drives	OPCCOVER51	\$1305.00



AF-650 GP General Purpose Drive

Standard Specifications

Environmental Conditions

Enclosures	IP20 Chassis, IP00 Chassis, IP21/NEMA 1, IP55/NEMA 12, IP54/NEMA 12, IP66/NEMA 4
Installation Location	Do not install in locations where product could be exposed to dust, corrosive gas, inflammable gas, oil mist, vapor, water drops or direct sunlight. There must be no salt in the atmosphere. Condensation must not be caused by sudden changes in temperature. For use at altitudes of 3280 ft. (1000M) or less without derating.
Storage Temperature	-25° to 65°C
Ambient Temperature	-10° to +50°C (24 hour average max of 45°C)
Ambient Humidity	5 to 95% RH (non-condensing)
Vibration	1.0g
Cooling Method	Fan Cooled all ratings. Fan Control Auto, 50% level, 75% level, 100% level adjustable

Standards

Approvals	CE, UL, cUL, and C-Tick Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical amperes for 230V and 460V.
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Input Power Supply

Rated Input AC Voltage	200-240 Vac, 3-phase, 50-60 Hz, +/- 10% V 380-500 Vac, 3-phase, 50-60 Hz, +/- 10% V 525-600 Vac, 3-phase, 50-60Hz, +/- 10% V 525-690 Vac, 3-phase, 50-60 Hz, +/- 10% V
Maximum Voltage Imbalance	3% of rated supply voltage
True Power Factor	> 0.9 nominal at rated load
Displacement Power Factor	> 0.98
Switching on input power supply	Maximum twice/minute up to 10HP, Maximum once/minute above 10HP
Environment according to EN60664-1	Overvoltage category III/pollution degree 2

Output

Rated Output Voltage	0-100% of supply voltage
Output Frequency	0-1000 Hz; 0-800Hz for 460V above 100HP and 525/600/690 V above 100HP
Switching on output	Unlimited
Accel/Decel Times	0.01-3600 seconds
Control Method	Sinusoidal PWM Control (V/Hz, Avd. Vector Control, Sensorless Vector, and Flux Vector with motor feedback)

Control

Starting Torque	160% starting torque for 1 minute (constant torque), 110% starting torque for 1 minute (variable torque)
Carrier Frequency (Motor Noise)	Selectable - 1, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 7, 8, 10, 12, 14, 16 kHz
Torque Boost	Selectable by up to 5 individual V/Hz settings in V/Hz Mode or by 0 - 300% setting of Torque Boost parameter in Adv. Vector Mode
Acceleration/Deceleration Time	0.01-3600 seconds (4 acceleration and deceleration times are selectable via digital inputs. Acceleration and deceleration patterns can be selected from linear or S-curve)
Data Protection	Password Protection for Quick Menu or Main Menu, 0-9999.
Pattern Operation	Settings via Built-In Logic Controller Sequencer
Jump Frequency Control	4 jump (or skip) frequencies via parameter set to avoid mechanical vibration
Slip Compensation	Maintains motor at constant speed with load fluctuations
Torque Limit Control	Output torque can be controlled within a range of 0.0 to 160% (0.1 and steps)
8 Preset Speeds	8 programmable preset speeds selectable by 3 digital inputs
Trim Reference Setting	Available for speed reference offset via potentiometer, voltage input, or current input
DC Injection Braking	Starting frequency: 0.0-1000 Hz, 0-800Hz for 460V above 100HP and 525-690 V above 50HP Braking time: 0.0-60.0 seconds Braking level: 0-100% of rated current
Jogging Operation	Operation via On key or digital input (Fwd or Rev)
Auto-Restart After Power Failure	Restarts the drive without stopping after instantaneous power failure
Energy Savings	Controls output voltage to minimize motor loss during constant speed operation
Start Mode Function	This functionality smoothly catches a spinning motor

Logic Controller (LC) Sequencer

Logic Controller Events	Up to 37 types of Programmable Events
Comparators	Array of 6 Comparators
Timers	Array of 8 Timers, adjustable from 0.0 to 3600 sec
Logic Rules	Array of 6 Boolean Logic Rules

Logic Controller States	Array of 20 Logic Controller Action States
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Process Controller (PID)

Process CL Feedback Select	Up to 2 references. Selectable - No function, Motor Feedback, Separate Encoder, Encoder Option Module, or Resolver Option Module
Process PID Control	Normal or Inverse
Process PID Anti Windup	Disabled or enabled
Process PID Start Speed	0.0-200 Hz
Process PID Proportional Gain	0.00-10.00
Process PID Integral Time	0.1 - 10000.0 ms
Process PID Differential Time	0.0 - 10 s
Process PID Differential Gain	1.0-50.00
Process PID Feed Forward Factor	0-500%
On Reference Bandwidth	0-200%

Operation

Operation Method	Keypad operation: Hand, Off, Auto Digital Input: Programmable for Start/Stop, Forward/Reverse, Jog Timer operation: Stop after predetermined time frame Built-in RS-485 Modbus RTU USB Port for programming drive with optional PC Software
Frequency Reference Signal	Left or Right Arrow buttons on keypad in Manual Mode Speed Potentiometer: 0 to +10 Vdc, 10 to 0 Vdc 0-10Vdc analog input 0/4-20ma analog input
References	Up to 3 Input References can be selected from Analog Input #1 or #2, Frequency Input #1 or #2, Network, or Potentiometer
Input Signals	6 - Digital Inputs, 24 Vdc PNP or NPN 1 - Safe Stop Digital Input suitable for category 3 installations to meet EN-954-1 2 - Pulse Inputs rated to 110kHz or 1 - Pulse Input and 1 - Encoder Input 24 Vdc rated to 4096 PPR 2 - Analog Inputs -10 to +10V scalable or 0/4 to 20 mA scalable Digital Input Settings: No Operation Reset after drive trip or alarm Drive at stop with no holding current Quick Stop according to Quick Stop Decel Time 1 Stop on input going low Start Maintained Start after signal applied for Minimum of 2ms Reversing Start Reverse Enable Start Forward only Enable Start Reverse only Jog Multi-Step Frequency selection (1 to 8 Steps) Hold Drive Frequency Hold Reference Speed Up; activated by Hold Drive Frequency or Hold Reference Slow Down; activated by Hold Drive Frequency or Hold Reference Drive Parameter Setup Select 1-4 Precise Start or Stop; Activated when drive parameter precise start or stop function is selected Catch Up or Slow Down; Activated by signal to add to or subtract from input reference to control speed Pulse Input selectable from 100 - 110000Hz Accel / Decel Time select. Set Input to Accel / Decel Times 1 to 4 Digital Potentiometer Input Increase or Decrease Mechanical Brake Feedback



AF-650 GP General Purpose Drive

Standard Specifications

Operation (continued)

Output Signals	2 - Digital Outputs 24 Vdc (Digital Outputs are used in place of 2 of the Digital Inputs)
	2 - Form C Relays rated to 2A at 240 Vac
	1 - Analog Output 0/4 to 20mA
	Relay Output Settings:
	No Operation
	Control Ready
	Drive Ready
	Drive Ready in Remote
	Standby No Drive Warnings
	Drive Running
	Drive Running No Drive Warnings
	Drive Running on Remote
	Alarm
	Alarm or Warning
	At Torque Limit
	Out of Current Range
	Below Current
	Above Current
	Out of Speed Range
	Below Speed
	Above Speed
	Out of Feedback Range
	Below Feedback
	Above Feedback
	Thermal Overload Warning
	Reverse
	Bus OK
	Torque Limit and Stopped
	Brake and no Warning
	Brake Ready and No Faults
	Brake Chopper Fault
	External Interlock
	Out of External Reference Range
	Below External Reference
	Above External Reference
	Fieldbus Controlling Drive
	No Alarm
	Running in Reverse
	Local Mode Active
	Remote Mode Active
	Start Command Active
	Hand Mode Active
	Auto Mode Active
Protective Functions	Line Phase Loss
	DC Overvoltage
	DC Undervoltage
	Drive Overload
	Motor Overtemperature
	Motor Thermistor Overtemperature
	Torque Limit
	Overcurrent
	Ground Fault
	Short Circuit
	Control Word Timeout
	Brake Resistor Short-Circuited
	Brake Chopper Short-Circuited
	Brake Check
	DC Link Voltage High
	DC Link Voltage Low
	Internal Fan Fault
	External Fan Fault
	Power Board Overtemperature
	Missing U Phase
	Missing V Phase
	Missing W Phase
	Internal Fault
	Control Voltage Fault
	Auto Tune Check - Wrong Motor Parameters
	Auto Tune Low Inom - Motor current is too low
	Current Limit
	Mechanical Brake Low
	Drive Initialized to Default Value
	Keypad Error
	No Motor
	Soft Charge Fault
	Auto Tuning Fault
	Serial Comms Bus Fault
	Hardware Mismatch
	Speed Limit

Keypad

Keypad Features	LCD Display with 6 Alpha-numeric lines. Multi-Language Support
	Hot Pluggable, Remote Mount Option, and CopyCat Feature, IP65 rating when remote mounted on enclosure
	LED's - Green - drive is on, Yellow - indicates a warning, Red - indicates an alarm, Amber - Indicates active Menu keys and H-O-A keys
Keypad Keys	Status - shows status of drive
	Quick Menu - Enters Quick Start, Parameter Data Check, or Trending Modes
	Main Menu - Used for programming all drive parameters
	Alarm Log - Used to display Alarm list
	Back - Reverts to previous step or layer in parameter structure
	Cancel - Used to cancel last change or command
	Info - Displays information about a command, parameter, or function in any display.
	Hand/Off/Auto - Used to control drive locally or put drive in remote mode
	Reset - Used to reset Warnings or Alarms
Password	2 Level Password Protection
Alternate Motor Parameters	Up to 4 Separate complete parameter set-ups are available
Graphical Trending	Trend Speed, Power, Frequency or any value programmed in status display

RS485 Modbus RTU Serial Communications

Physical Level:	EIA/RS485
Transmission Distance:	1640 ft (500m)
Node Address:	32
Transmission Speed:	2400, 4800, 9600, 19200, 38400, or 115200 (bits/s)
Transmission Mode:	Half Duplex
Transmission Protocol	Modbus RTU
Character Code:	Binary
Character Length:	8 Bits
Error Check:	CRC

Mounting Clearance

All AF-650 GP drives can be mounted Side-by-Side without spacing.
For all drives rated 100HP or below allow 3.4 inches (100mm) free space above and below.
For all drives rated 125HP and above allow 8.9 inches (225mm) free space above and below.



AF-600 FP Fan and Pump Drive

Product Description

The AF-600 FP Fan and Pump Drive is a powerful, flexible, and easy to use AC variable torque drive ideally suited for HVAC, compressor, and pump applications. The drive is available in a standard configuration that includes IP20 or IP00 Chassis, LCD Keypad Display that can be remote mounted, DC Link Reactors, built-in Modbus RTU, Metasys N2, Apogee FLN P1, and RFI Class A2 Filter. Models are available at 208/230V from 1 to 60HP, 460V from 1 to 1350HP, and 575V from 1 to 1350HP.

Standard features like motor auto tuning, four auto-tuning PID controls, energy savings mode, and energy monitoring make the AF-600 FP ideal for all your fan, pump, compressor, and blower applications. Its Quick Menu, Application Macros, and intuitive Keypad make it a time saver for start-up and commissioning. Optional LonWorks and BACnet communications modules along with IP55/54 NEMA 12 and IP66/NEMA 4X rated units allows it to be integrated into your building automation systems and stand-alone installations. Optional I/O modules and conformal coatings allow it to be used in complex or very harsh environments if needed. The AF-600 FP is Plenum rated for mounting inside air handling ducts.



Product Numbering System Diagram

(Product number for illustrative purposes only)

Description	6K	FP	2	3	F50	X	2	R	L	C	A1	Revision
GE Product Code												A1 = 1st Revision
Drive												A2 = Future
FP = AF-600												
Fan and Pump Drive												
Input Voltage												Conformal Coating
2 = 208/230V, 50/60 Hz												X = No Conformal Coatings
4 = 460V, 50/60 Hz												C = Conformal Coatings
5 = 575V, 50/60 Hz												
Input Phase												Load Share
1 = 1-Phase												X = Standard Unit
3 = 3-Phase												L = Load Share Terminals
HP Rating												A1/B RFI Filter
F50 = 1/2 HP												X = No A1/B RFI Filter Installed
O10 = 10 HP												R = A1/B RFI Filter Installed
100 = 100 HP												
1K0 = 1000 HP												
												Drive Type
												1 = IP21/Type 1
												2 = IP55/NEMA 12
												4 = IP66/NEMA 4X
												9 = IP20/Open
												8 = IP00/Open
												Factory Installed Keypad
												X = Keypad



AF-600 FP Fan and Pump Drive Pricing

230V, 1-Phase, 50/60Hz Input

HP Rating	kW Rating	Rated Output Amps	Overload Amps (110% 1 Min)	Standard Unit Includes:	Standard Unit Product No.	List Price GO-5FP	List Price Adders, GO-5FP				
							Drive Type (Digit 11)		Factory Installed Options (Digit 14) (Digit 15) (Digit 16)		
							(1) IP21 NEMA 1	(2) IP55 NEMA 12	(R) RFI filter A1/B	(X) Future Use	(C) Conformal Coating
2	1.5	7.5	8.3	IP21/NEMA 1 RFI: A2 Keypad	6KFP21002X1XXA1	\$2015.00	std	\$250.00	\$150.00	N/A	\$210.00
3	2.2	10.6	11.7		6KFP21003X1XXA1	\$2020.00	std	\$250.00	\$150.00	N/A	\$210.00
5	3.7	16.7	18.4		6KFP21005X1XXA1	\$2290.00	std	\$275.00	\$230.00	N/A	\$210.00
7.5	5.5	24.2	26.6		6KFP21007X1XXA1	\$2400.00	std	\$555.00	\$455.00	N/A	\$210.00
10	7.5	30.8	33.9		6KFP21010X1XXA1	\$2665.00	std	\$555.00	\$455.00	N/A	\$210.00
20	15	59.4	65.3		6KFP21020X1XXA1	\$5440.00	std	\$960.00	\$690.00	N/A	\$210.00
30	22	88	96.8		6KFP21030X1XXA1	\$8270.00	std	\$1370.00	\$1115.00	N/A	\$210.00

¹Drives are rated NEMA 1 without the need for a separate kit.

230V, 3-Phase, 50/60Hz Input

							List Price Adders, GO-5FP					
							Drive Type (Digit 11)			Factory Installed Options (Digit 14) (Digit 15) (Digit 16)		
							(9) IP20 Chassis	(2) IP55 NEMA 12	(4) IP66 NEMA 4X	(R) RFI filter A1/B	(L) Load Share	(C) Conformal Coating
HP Rating	kW Rating	Rated Output Amps	Overload Amps (110% 1 Min)	Standard Unit ² Includes:	Standard Unit Product No.	List Price GO-5FP						
1	0.75	4.6	7.3	IP20 (9) Chassis RFI: A2 Keypad	6KFP23001X9XXXXA1	\$785.00	std	\$250.00	\$550.00	\$150.00	N/A	\$210.00
2	1.5	7.5	8.3		6KFP23002X9XXXXA1	\$850.00	std	\$250.00	\$550.00	\$150.00	N/A	\$210.00
3	2.2	10.6	11.7		6KFP23003X9XXXXA1	\$925.00	std	\$250.00	\$550.00	\$150.00	N/A	\$210.00
5	3.7	16.7	18.4		6KFP23005X9XXXXA1	\$1200.00	std	\$275.00	\$550.00	\$230.00	N/A	\$210.00
7.5	5.5	24.2	26.6		6KFP23007X9XXXXA1	\$1375.00	std	\$555.00	\$575.00	\$455.00	\$200.00*	\$210.00
10	7.5	30.8	33.9		6KFP23010X9XXXXA1	\$1650.00	std	\$555.00	\$920.00	\$455.00	\$234.00*	\$210.00
15	11	46.2	50.8		6KFP23015X9XXXXA1	\$2005.00	std	\$555.00	\$920.00	\$455.00	\$245.00*	\$210.00
20	15	59.4	65.3		6KFP23020X9XXXXA1	\$2405.00	std	\$960.00	\$1600.00	\$690.00	\$290.00	\$210.00
25	18.5	74.8	82.3		6KFP23025X9XXXXA1	\$2975.00	std	\$960.00	\$1950.00	\$690.00	\$350.00	\$210.00
30	22	88	96.8		6KFP23030X9XXXXA1	\$3700.00	std	\$1370.00	\$2390.00	\$1115.00	\$365.00	\$210.00
40	30	115	127		6KFP23040X9XXXXA1	\$5275.00	std	\$1370.00	\$2870.00	\$1115.00	\$430.00	\$210.00
50	37	143	157		6KFP23050X9XXXXA1	\$6295.00	std	\$1825.00	\$3270.00	\$1550.00	\$485.00	\$210.00
60	45	170	187		6KFP23060X9XXXXA1	\$7425.00	std	\$1825.00	\$3750.00	\$1550.00	\$560.00	\$210.00

²IP21/NEMA 1 Kits are available as Field Installed Options for all 230V drives from 1 HP to 60 HP. See Page 46.

*Only for IP55/NEMA 12 and IP66/NEMA 4X

460V, 1-Phase, 50/60Hz Input

HP Rating	kW Rating	Rated Output Amps	Overload Amps (150% 1 Min)	Standard Unit Includes:	Standard Unit Product No.	List Price GO-5FP	List Price Adders, GO-5FP				
							Drive Type (Digit 11)		Factory Installed Options (Digit 14) (Digit 15) (Digit 16)		
							(1) IP21 NEMA 1	(2) IP55 NEMA 12	(R) RFI filter A1/B	(X) Future Use	(C) Conformal Coating
10	7.5	14.5	21.8	IP21/NEMA 1 RFI: A2 Keypad	6KFP41010X1XXA1	\$2885.00	std	\$275.00	\$275.00	N/A	\$210.00
15	11	21	31.5		6KFP41015X1XXA1	\$4040.00	std	\$555.00	\$455.00	N/A	\$210.00
25	18.5	34	51.0		6KFP41025X1XXA1	\$6975.00	std	\$555.00	\$455.00	N/A	\$210.00
50	37	65	97.5		6KFP41050X1XXA1	\$10255.00	std	\$960.00	\$690.00	N/A	\$210.00

¹Drives are rated NEMA 1 without the need for a separate kit.

460V, 3-Phase, 50/60Hz Input

HP Rating kW Rating Rated Output Amps Overload Amps (110% 1 Min) Standard Unit ³ Includes: Standard Unit Product No. List Price GO-5FP							List Price Adders, GO-5FP					
							Drive Type (Digit 11)			Factory Installed Options (Digit 14) (Digit 15) (Digit 16)		
							(9) IP20 Chassis	(2) IP55 NEMA 12	(4) IP66 NEMA 4X	(R) RFI filter A1/B	(L) Load Share	(C) Conformal Coating
1	0.75	2.4	2.6	IP20 (9) Chassis RFI: A2 Keypad	6KFP43001X9XXA1	\$920.00	std	\$250.00	\$550.00	\$150.00	N/A	\$210.00
2	1.5	4.1	4.5		6KFP43002X9XXA1	\$980.00	std	\$250.00	\$550.00	\$150.00	N/A	\$210.00
3	2.2	5.6	6.2		6KFP43003X9XXA1	\$1120.00	std	\$250.00	\$550.00	\$150.00	N/A	\$210.00
5	4	10	11		6KFP43005X9XXA1	\$1260.00	std	\$275.00	\$550.00	\$275.00	N/A	\$210.00
7.5	5.5	13	14.3		6KFP43007X9XXA1	\$1410.00	std	\$275.00	\$550.00	\$275.00	N/A	\$210.00
10	7.5	16	17.6		6KFP43010X9XXA1	\$1720.00	std	\$275.00	\$575.00	\$275.00	N/A	\$210.00
15	11	24	26.4		6KFP43015X9XXA1	\$2030.00	std	\$555.00	\$575.00	\$455.00	\$200.00*	\$210.00
20	15	32	35.2		6KFP43020X9XXA1	\$2656.00	std	\$555.00	\$920.00	\$455.00	\$234.00*	\$210.00
25	18.5	37.5	41.3		6KFP43025X9XXA1	\$3370.00	std	\$555.00	\$920.00	\$455.00	\$245.00*	\$210.00
30	22	44	48.4		6KFP43030X9XXA1	\$3840.00	std	\$960.00	\$1600.00	\$690.00	\$290.00	\$210.00
40	30	61	67.1		6KFP43040X9XXA1	\$4855.00	std	\$960.00	\$1600.00	\$690.00	\$310.00	\$210.00
50	37	73	80.3		6KFP43050X9XXA1	\$5490.00	std	\$960.00	\$1600.00	\$690.00	\$350.00	\$210.00
60	45	90	99		6KFP43060X9XXA1	\$6500.00	std	\$1370.00	\$1950.00	\$1115.00	\$365.00	\$210.00
75	55	106	116.6		6KFP43075X9XXA1	\$8150.00	std	\$1370.00	\$1950.00	\$1115.00	\$430.00	\$210.00
100	75	147	161.7		6KFP43100X9XXA1	\$10350.00	std	\$1825.00	\$3270.00	\$1550.00	\$485.00	\$210.00
125	90	177	194.7		6KFP43125X9XXA1	\$12390.00	std	\$1825.00	\$3750.00	\$1550.00	\$560.00	\$210.00

³IP21/NEMA 1 Kits are available as Field Installed Options for all 460V drives from 1 HP to 125 HP. See Page 46.

*Only for IP55/NEMA 12 and IP66/NEMA 4X



AF-600 FP Fan and Pump Drive Pricing

460V, 3-Phase, 50/60Hz Input

HP Rating	kW Rating	Rated Output Amps	Overload Amps (110% 1 Min)	Standard Unit Includes:	Standard Unit Product No.	List Price GO-5FP	List Price Adders, GO-5FP					
							Drive Type (Digit 11)			Factory Installed Options (Digit 14) (Digit 15) (Digit 16)		
							(8) IP00 Chassis	(1) IP21 NEMA 1	(2) IP54 NEMA 12	(R) RFI filter A1/B	(L) Load Share	(C) Conformal Coating
150	110	190	209	IP00 (8) Chassis RFI: A2 Keypad	6KFP43150X8XXXA1	\$14200.00	std	\$1035.00	\$3370.00	\$2120.00	\$625.00	\$705.00
200	132	240	264		6KFP43200X8XXXA1	\$17110.00	std	\$1035.00	\$3370.00	\$2565.00	\$755.00	\$705.00
250	160	302	332		6KFP43250X8XXXA1	\$20315.00	std	\$1140.00	\$3700.00	\$3140.00	\$920.00	\$705.00
300	200	361	397		6KFP43300X8XXXA1	\$22500.00	std	\$1140.00	\$3700.00	\$3750.00	\$1100.00	\$705.00
350	250	443	487		6KFP43350X8XXXA1	\$25900.00	std	\$1140.00	\$3700.00	\$4475.00	\$1315.00	\$705.00
450	315	540	594	IP00 (8) Chassis RFI: A2 Keypad Conformal Coated	6KFP43450X8XXCA1	\$32500.00	std	\$3065.00	\$6075.00	\$5420.00	\$1585.00	std
500	355	590	649		6KFP43500X8XXCA1	\$42550.00	std	\$3065.00	\$6075.00	\$6390.00	\$1770.00	std
550	400	678	746		6KFP43550X8XXCA1	\$54000.00	std	\$3065.00	\$6075.00	\$7350.00	\$2110.00	std
600	450	730	803		6KFP43600X8XXCA1	\$61150.00	std	\$3065.00	\$6075.00	\$8325.00	\$2510.00	std
650	500	780	858		6KFP43650X1XXCA1	\$69000.00	N/A	std	\$11170.00	\$11655.00	N/A	std
750	560	890	979	IP21/NEMA 1 (1) RFI: A2 Keypad Conformal Coated	6KFP43750X1XXCA1	\$82000.00	N/A	std	\$11170.00	\$13085.00	N/A	std
900	630	1050	1155		6KFP43900X1XXCA1	\$93000.00	N/A	std	\$11170.00	\$14890.00	N/A	std
1000	710	1160	1276		6KFP431K0X1XXCA1	\$109000.00	N/A	std	\$11170.00	\$17295.00	N/A	std
1200	800	1380	1518		6KFP431K2X1XXCA1	\$125000.00	N/A	std	\$11170.00	\$19735.00	N/A	std
1350	1000	1530	1683		6KFP431K3X1XXCA1	\$145800.00	N/A	std	\$11170.00	\$22930.00	N/A	std

575V, 3-Phase, 50/60Hz Input

HP Rating	kW Rating	Rated Output Amps	Overload Amps (110% 1 Min)	Standard Unit ¹ Includes:	Standard Unit Product No.	List Price GO-5FP	List Price Adders, GO-5FP					
							Drive Type (Digit 11)			Factory Installed Options (Digit 14) (Digit 15) (Digit 16)		
							(9) IP20 Chassis	(2) IP55 NEMA 12	(4) IP66 NEMA 4X	(R) RFI filter A1/B	(L) Load Share	(C) Conformal Coating
1	0.75	1.8	1.98	IP20 (9) Chassis Keypad	6KFP53001X9XXXXA1	\$1050.00	std	\$250.00	\$550.00	N/A	N/A	\$210.00
2	1.5	2.7	2.97		6KFP53002X9XXXXA1	\$1120.00	std	\$250.00	\$550.00	N/A	N/A	\$210.00
3	2.2	3.9	4.29		6KFP53003X9XXXXA1	\$1275.00	std	\$250.00	\$550.00	N/A	N/A	\$210.00
5	4	6.1	6.71		6KFP53005X9XXXXA1	\$1440.00	std	\$250.00	\$550.00	N/A	N/A	\$210.00
7.5	5.5	9	9.9		6KFP53007X9XXXXA1	\$1610.00	std	\$275.00	\$550.00	N/A	N/A	\$210.00
10	7.5	11	12.1		6KFP53010X9XXXXA1	\$1965.00	std	\$275.00	\$550.00	N/A	N/A	\$210.00
15	11	18	19.8		6KFP53015X9XXXXA1	\$2320.00	std	\$555.00	\$845.00	N/A	\$200.00	\$210.00
20	15	22	24.2		6KFP53020X9XXXXA1	\$3030.00	std	\$555.00	\$920.00	N/A	\$234.00	\$210.00
25	18.5	27	29.7		6KFP53025X9XXXXA1	\$3845.00	std	\$555.00	\$920.00	N/A	\$245.00	\$210.00
30	22	34	37.4		6KFP53030X9XXXXA1	\$4380.00	std	\$960.00	\$1600.00	N/A	\$290.00	\$210.00
40	30	41	45.1		6KFP53040X9XXXXA1	\$5535.00	std	\$960.00	\$1600.00	N/A	\$310.00	\$210.00
50	37	52	57.2		6KFP53050X9XXXXA1	\$6260.00	std	\$960.00	\$1600.00	N/A	\$350.00	\$210.00
60	45	62	68.2		6KFP53060X9XXXXA1	\$7410.00	std	\$1370.00	\$1950.00	N/A	\$365.00	\$210.00
75	55	83	91.3		6KFP53075X9XXXXA1	\$9295.00	std	\$1370.00	\$1950.00	N/A	\$430.00	\$210.00
100	75	100	110		6KFP53100X9XXXXA1	\$11800.00	std	\$1825.00	\$3270.00	N/A	\$485.00	\$210.00
125	90	131	144.1		6KFP53125X9XXXXA1	\$14125.00	std	\$1825.00	\$3750.00	N/A	\$560.00	\$210.00

¹IP21/NEMA 1 Kits are available as Field Installed Options for all 575V drives from 1 HP to 125 HP. See Page 46.

575V, 3-Phase, 50/60Hz Input

HP Rating	kW Rating	Rated Output Amps	Overload Amps (110% 1 Min)	Standard Unit Includes:	Standard Unit Product No.	List Price GO-5FP	List Price Adders, GO-5FP					
							Drive Type (Digit 11)			Factory Installed Options (Digit 12) (Digit 13) (Digit 14)		
							(8) IP00 Chassis	(1) IP21 NEMA 1	(2) IP54 NEMA 12	(R) RFI filter A1/B	(X) Future Use	(C) Conformal Coating
150	110	155	170.5	IP00 (8) Chassis RFI: A2 Keypad Conformal Coated	6KFP53150X8XXCA1	\$17100.00	std	\$1190.00	\$3990.00	N/A	N/A	std
200	132	192	211.2		6KFP53200X8XXCA1	\$21150.00	std	\$1190.00	\$3990.00	N/A	N/A	std
250	160	242	266.2		6KFP53250X8XXCA1	\$24850.00	std	\$1190.00	\$3990.00	N/A	N/A	std
300	200	290	319		6KFP53300X8XXCA1	\$28495.00	std	\$1190.00	\$3990.00	N/A	N/A	std
350	250	344	378.4		6KFP53350X8XXCA1	\$30860.00	std	\$3525.00	\$6990.00	N/A	N/A	std
400	315	400	440		6KFP53400X8XXCA1	\$41880.00	std	\$3525.00	\$6990.00	N/A	N/A	std
450	355	450	495		6KFP53450X8XXCA1	\$51060.00	std	\$3525.00	\$6990.00	N/A	N/A	std
500	400	500	550		6KFP53500X8XXCA1	\$65180.00	std	\$7500.00	\$11170.00	N/A	N/A	std
600	450	570	627		6KFP53600X8XXCA1	\$83000.00	std	\$7500.00	\$11170.00	N/A	N/A	std
650	500	630	693		6KFP53650X8XXCA1	\$95150.00	std	\$7500.00	\$11170.00	N/A	N/A	std
750	560	730	803	IP21/NEMA 1 (1) RFI: A2 Keypad Conformal Coated	6KFP53750X8XXCA1	\$120550.00	N/A	std	\$11170.00	N/A	N/A	std
950	710	850	935		6KFP53950X1XXCA1	\$137550.00	N/A	std	\$11170.00	N/A	N/A	std
1050	800	945	1039.5		6KFP531K0X1XXCA1	\$159900.00	N/A	std	\$11170.00	N/A	N/A	std
1150	900	1060	1166		6KFP531K1X1XXCA1	\$181050.00	N/A	std	\$11170.00	N/A	N/A	std
1350	1000	1260	1386		6KFP531K3X1XXCA1	\$200100.00	N/A	std	\$11170.00	N/A	N/A	std



AF-600 FP Fan and Pump Drive

Field Installed IP21/NEMA 1 Add-On Option Kits

IP21/NEMA 1 Add-On Option Kits

Voltage	HP Rating	kW Rating	IP21/NEMA 1 Kit Product No.	List Price GO-SAC	Fits AF-600 FP IP20 Drive Product No.
230	1	1.1	NEMA1ACA2	\$110.00	6KFP23001X9XXXXA1
	2	1.5	NEMA1ACA2	\$110.00	6KFP23002X9XXXXA1
	3	2.2	NEMA1ACA2	\$110.00	6KFP23003X9XXXXA1
	5	3.7	NEMA1ACA3	\$110.00	6KFP23005X9XXXXA1
	7.5	5.5	NEMA1ACB3	\$140.00	6KFP23007X9XXXXA1
	10	7.5	NEMA1ACB3	\$140.00	6KFP23010X9XXXXA1
	15	11	NEMA1ACB3	\$140.00	6KFP23015X9XXXXA1
	20	15	NEMA1ACB4	\$150.00	6KFP23020X9XXXXA1
	25	18.5	NEMA1ACB4	\$150.00	6KFP23025X9XXXXA1
	30	22	NEMA1ACC3	\$160.00	6KFP23030X9XXXXA1
	40	30	NEMA1ACC3	\$160.00	6KFP23040X9XXXXA1
	50	37	NEMA1ACC4	\$175.00	6KFP23050X9XXXXA1
	60	45	NEMA1ACC4	\$175.00	6KFP23060X9XXXXA1
	1	1.1	NEMA1ACA2	\$110.00	6KFP43001X9XXXXA1
	2	1.5	NEMA1ACA2	\$110.00	6KFP43002X9XXXXA1
	3	2.2	NEMA1ACA2	\$110.00	6KFP43003X9XXXXA1
	5	3.7	NEMA1ACA2	\$110.00	6KFP43005X9XXXXA1
460	7.5	5.5	NEMA1ACA3	\$115.00	6KFP43007X9XXXXA1
	10	7.5	NEMA1ACA3	\$115.00	6KFP43010X9XXXXA1
	15	11	NEMA1ACB3	\$140.00	6KFP43015X9XXXXA1
	20	15	NEMA1ACB3	\$140.00	6KFP43020X9XXXXA1
	25	18.5	NEMA1ACB3	\$140.00	6KFP43025X9XXXXA1
	30	22	NEMA1ACB4	\$150.00	6KFP43030X9XXXXA1
	40	30	NEMA1ACB4	\$150.00	6KFP43040X9XXXXA1
	50	37	NEMA1ACB4	\$150.00	6KFP43050X9XXXXA1
	60	45	NEMA1ACC3	\$160.00	6KFP43060X9XXXXA1
	75	55	NEMA1ACC3	\$160.00	6KFP43075X9XXXXA1
	100	75	NEMA1ACC4	\$175.00	6KFP43100X9XXXXA1
	125	90	NEMA1ACC4	\$175.00	6KFP43125X9XXXXA1
	1	1.1	NEMA1ACA3	\$115.00	6KFP53001X9XXXXA1
	2	1.5	NEMA1ACA3	\$115.00	6KFP53002X9XXXXA1
	3	2.2	NEMA1ACA3	\$115.00	6KFP53003X9XXXXA1
	5	3.7	NEMA1ACA3	\$115.00	6KFP53005X9XXXXA1
	7.5	5.5	NEMA1ACA3	\$115.00	6KFP53007X9XXXXA1
575	10	7.5	NEMA1ACA3	\$115.00	6KFP53010X9XXXXA1
	15	11	NEMA1ACB3	\$140.00	6KFP53015X9XXXXA1
	20	15	NEMA1ACB3	\$140.00	6KFP53020X9XXXXA1
	25	18.5	NEMA1ACB3	\$140.00	6KFP53025X9XXXXA1
	30	22	NEMA1ACB4	\$150.00	6KFP53030X9XXXXA1
	40	30	NEMA1ACB4	\$150.00	6KFP53040X9XXXXA1
	50	37	NEMA1ACB4	\$150.00	6KFP53050X9XXXXA1
	60	45	NEMA1ACC3	\$160.00	6KFP53060X9XXXXA1
	75	55	NEMA1ACC3	\$160.00	6KFP53075X9XXXXA1
	100	75	NEMA1ACC4	\$175.00	6KFP53100X9XXXXA1
	125	90	NEMA1ACC4	\$175.00	6KFP53125X9XXXXA1



AF-600 FP Fan and Pump Drive



AF-600 FP Fan and Pump Drive

Options and Accessories

Remote Mounting Kit for graphical LCD Keypad

Remote Mounting Kit for mounting graphical LCD Keypad on enclosure door. Kit includes gasket, mounting brackets, and cable. Keypad is rated IP65.

Description	Product Number	List Price GO-5AC
Remote Mounting Kit for graphical LCD Keypad	RMKYPDAC	\$95.00
Remote Mounting Kit without cable	OPCRMKNC	\$85.00



Remote Mounting Kit

Profibus DP Communications Module

Profibus DP internal drive mounted module for use on AF-650 GP and AF-600 FP drives. Supports Profibus DP V1 communications networks.

Description	Product Number	List Price GO-5AC
Profibus DP Communications Module	OPCPDP	\$725.00



Profibus DP Communications Module

DeviceNet Communications Module

DeviceNet internal drive mounted module for use on AF-650 GP and AF-600 FP drives. ODVA certified device.

Description	Product Number	List Price GO-5AC
DeviceNet Communications Module	OPCDEV	\$600.00



DeviceNet Communications Module

Ethernet IP Communications Module¹

Ethernet IP internal drive mounted module for use on AF-650 GP and AF-600 FP drives. ODVA certified device. Features 2-Port built-in switch. Also includes webserver and email notification.

Description	Product Number	List Price GO-5AC
Ethernet/IP Communications Module	OPCEIP	\$700.00

¹Requires I/O and network slots and cannot be used with any other network or I/O modules.

Modbus TCP Communications Module

Modbus TCP internal drive mounted module for use on AF-650 GP and AF-600 FP drives.

Description	Product Number	List Price GO-5AC
Modbus TCP Communications Module	OPCMBTCP	\$700.00

ProfiNet RT Communications Module

ProfiNet RT internal drive mounted module for use on AF-650 GP and AF-600 FP drives.

Description	Product Number	List Price GO-5AC
ProfiNet RT Communications Module	OPCPRT	\$700.00

LonWorks Communications Module

LonWorks internal drive mounted module for use on AF-600 FP drives only. Supports LonWorks building automation communications networks.

Description	Product Number	List Price GO-5AC
LonWorks Communications Module	OPCLON	\$600.00

BacNet Communications Module

BacNet internal drive mounted module for use on AF-60 FP drives only. Supports BacNet MSTP building automation communications networks.

Description	Product Number	List Price GO-5AC
BacNet Communications Module	OPCBAC	\$600.00



AF-600 FP Fan and Pump Drive Options and Accessories

Relay Output Module

Relay Output internal drive mounted module for use on the AF-650 GP and AF-600 drives. Module adds (3) Form C relay outputs to the drive. Relays are rated at 2A at 240V resistive load.

Description	Product Number	List Price GO-5AC
Relay Output Module	OPCRLY	\$475.00



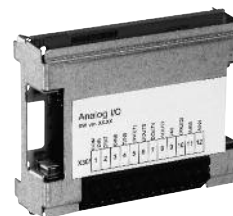
Relay Output Module

Analog I/O Module

Analog I/O internal drive mounted module for use on the AF-600 FP drive only. Module Includes:

- 3) Analog Inputs 0-10V, 0/4-20mA
- 3) Analog Outputs 0-10V
- Battery Back-Up power for AF-600 FP's internal Real Time Clock

Description	Product Number	List Price GO-5AC
Analog I/O Module	OPCAIO	\$500.00



Analog I/O Module

24V DC External Supply Module

24V DC External Supply internal drive mounted module for use on the AF-650 GP and AF-600 FP drives. This module accepts an external 24V DC supply which is used to keep the control board of the drive and other option modules powered in the event of a Line side power outage. Can be used with Communications and I/O Modules.

Description	Product Number	List Price GO-5AC
24V DC External Supply Module	OPC24VPS	\$240.00



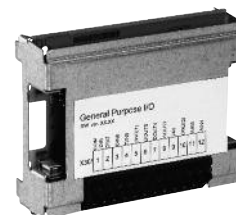
24V DC External Supply Module

General Purpose I/O Module

General Purpose I/O internal drive mounted module for use on AF-650 GP and AF-600 FP drives. Module includes:

- 3) 24V Digital Inputs
- 2) PNP/NPN Digital Outputs
- 2) 0-10V Analog Inputs
- 1) 0/4-20mA Analog Output

Description	Product Number	List Price GO-5AC
General Purpose I/O Module	OPCGPIO	\$475.00



General Purpose I/O Module

Screw Terminal Accessory

Screw Terminal Accessory is available for field installation on AF-650 GP™ and AF-600 FP™ drives. These screw terminals can replace the cage clamp terminals which ship with each drive. This set of three terminals are for the digital inputs, analog I/O, and RS485 connection.

Description	Product Number	List Price GO-5AC
Screw Terminal Accessory	OPCTERM	\$25.00

Pedestal Kit

Pedestal Kit allows Unit Size 41 and 42 drives (NEMA 1 and 12, 150HP to 350/400HP at 460V/575V AF-600 FP and 125HP to 300/400HP at 460/690V AF-650 GP) to be floor mounted.

Description	Product Number	List Price GO-5AC
Pedestal Kit	OPC4KPED	\$875.00



AF-600 FP Fan and Pump Drive

Options and Accessories

USB Kit

This kit allows for the USB programming terminal to be brought out to the front cover of the drive. Works with all drive types.

Description	Product Number	List Price GO-5AC
For all drives up to Unit Size 5X	OPCUSB	\$75.00
For all Unit Size 6X drives	OPCUSB6X	\$225.00

Power Shields

These shields are used to cover the drive power terminals on NEMA 1 and NEMA 12 drive types.

Description	Product Number	List Price GO-5AC
For Unit Size 41 and 42 drives	OPCCOVER4142	\$520.00
For Unit Size 51 drives	OPCCOVER51	\$1305.00



AF-600 FP Fan and Pump Drive

Standard Specifications

Environmental Conditions

Enclosures	IP20 Chassis, IP00 Chassis, IP21/NEMA 1, IP55/NEMA 12, IP54/NEMA 12
Plenum Ratings	Drives and options are UL rated for installation inside air handling ducts and plenums
Installation Location	Do not install in locations where product could be exposed to dust, corrosive gas, inflammable gas, oil mist, vapor, water drops or direct sunlight. There must be no salt in the atmosphere. Condensation must not be caused by sudden changes in temperature. For use at altitudes of 3280 ft. (1000M) or less without derating.
Storage Temperature	-25° to 65°C
Ambient Temperature	-10° to +50°C (24 hour average max of 45°C)
Ambient Humidity	5 to 95% RH (non-condensing)
Vibration	1.0g
Cooling Method	Fan Cooled all ratings. Fan Control Auto, 50% level, 75% level, 100% level adjustable

Standard

Approvals	CE, UL, cUL, and C-Tick Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical amperes for 208/230V and 460V.
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Input Power Supply

Rated Input AC Voltage	200-240 Vac, 3-phase, 50-60 Hz, +/- 10% V 380-480 Vac, 3-phase, 50-60 Hz, +/- 10% V 525-600 Vac, 3-phase, 50-60 Hz, +/- 10% V
Maximum Voltage Imbalance	3% of rated supply voltage
True Power Factor	> 0.9 nominal at rated load
Displacement Power Factor	> 0.98
Switching on input power supply	Maximum twice/minute up to 10HP, Maximum once/minute above 10HP
Environment according to EN60664-1	Overvoltage category III/pollution degree 2
DC Link Reactors	Built-In DC Link Reactors on all ratings
RFI Filters	Built-In RFI Filters to reduce noise generated by the drive. Meets industrial standards.

Output

Rated Output Voltage	0-100% of supply voltage
Output Frequency	0-1000 Hz; 0-800Hz for 460V above 125HP and 525-690 V above 125HP
Switching on output	Unlimited
Accel/Decel Times	1-3600 seconds
Control Method	Sinusoidal PWM Control (V/Hz, Avd. Vector Control)

Control

Starting Torque	110% starting torque for 1 minute (variable torque)
Carrier Frequency (Motor Noise)	Selectable - 1, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 7, 8, 10, 12, 14, 16 kHz
Torque Boost	0 - 300% setting to compensate voltage in relation to the load at low speed
Acceleration/Deceleration Time	0.01-3600 seconds (4 acceleration and deceleration times are selectable via digital inputs. Acceleration and deceleration patterns can be selected from linear or S-curve)
Data Protection	Password Protection for Quick Menu or Main Menu, 0-9999.
Pattern Operation	Settings via Built-In Logic Controller Sequencer
Jump Frequency Control	4 jump (or skip) frequencies via parameter set to avoid mechanical vibration
Slip Compensation	Maintains motor at constant speed with load fluctuations
Torque Limit Control	Output torque can be controlled within a range of 0.0 to 110% (0.1 and steps)
8 Preset Speeds	8 programmable preset speeds selectable by 3 digital inputs
Preset Speeds	8 presets via digital inputs
Built-In Communications	Drive RS-485, Modbus RTU, Metasys N2, or Apogee FLN P1
Trim Reference Setting	Available for speed reference offset via potentiometer, voltage input, or current input
DC Injection Braking	Starting frequency: 0.0-1000 Hz, 0-800Hz for 460V above 125HP and 525-690 V above 125HP Braking time: 0.0-60.0 seconds Braking level: 0-100% of rated current
Jogging Operation	Operation via On key or digital input (Fwd or Rev)
Auto-Restart After Power Failure	Restarts the drive without stopping after instantaneous power failure
Energy Savings	Controls output voltage to minimize motor loss during constant speed operation
Start Mode Function	This functionality smoothly catches a spinning motor
Fire Override Mode	Overrides drive's protective features and keeps motor running
Pump Cascade Controller	Distributes running hours evenly over up to 4 pumps
Sleep Mode	Drive detects low or no flow conditions and adjusts output
Dry Pump Detection	Detects pump operation and can set off alarm, shuts off, or other programmed actions
Belt Monitoring	Drive can detect relationship between current and speed to recognize a broken belt
Real Time Clock	With programmable timed actions

Logic Controller (LC) Sequencer

Logic Controller Events	Upto 38 Programmable Events
Comparators	Array of 6 Comparators
Timers	Array of 8 Timers, adjustable from 0.0 to 3600 sec
Logic Rules	Array of 6 Boolean Logic Rules
Logic Controller States	Array of 20 Logic Controller Action States

Process Controller (PID)

Process PID Controller	4 Auto Tune PID Controllers Built-In
Process CL Feedback Select	Up to 2 references. Selectable - No function, Motor Feedback, Separate Encoder, Encoder Option Module, or Resolver Option Module
Process PID Control	Normal or Inverse
Process PID Anti Windup	Disabled or enabled
Process PID Start Speed	0.0-200 Hz
Process PID Proportional Gain	0.00-10.00
Process PID Integral Time	0.1 - 10000.0 ms
Process PID Differential Time	0.0 - 10 s
Process PID Differential Gain	1.0-50.00
Process PID Feed Forward Factor	0-500%
On Reference Bandwidth	0-200%



AF-600 FP Fan and Pump Drive Standard Specifications

Operation

Operation Method	Keypad operation: Hand, Off, Auto Digital Input: Programmable for Start/Stop, Forward/Reverse, Jog Timer operation: Stop after predetermined time frame Communications: RS-485 Modbus RTU, Metasys N2, and Apogee FLN P1 USB Port for programming drive with optional PC Software
Frequency Reference Signal	Left or Right Arrow buttons on keypad in Manual Mode Speed Potentiometer: 0 to +10 Vdc, 10 to 0 Vdc 0-10Vdc analog input 0/4-20ma analog input
References	Up to 3 Input References can be selected from Analog Input #1 or #2, Frequency Input #1 or #2, Network, or Potentiometer
Digital Input Signal	No Operation Reset after drive trip or alarm Drive at stop with no holding current Quick Stop according to Quick Stop Decel Time 1 Stop on input going low Start Maintained Start after signal applied for Minimum of 2ms Reversing Start Reverse Enable Start Forward only Enable Start Reverse only Jog Multi-Step Frequency selection (1 to 8 Steps) Hold Drive Frequency Hold Reference Speed Up; activated by Hold Drive Frequency or Hold Reference Slow Down; activated by Hold Drive Frequency or Hold Reference Drive Parameter Setup Select 1-4 Precise Start or Stop; Activated when drive parameter precise start or stop function is selected Catch Up or Slow Down; Activated by signal to add to or subtract from input reference to control speed Pulse Input selectable from 100 - 110000Hz Accel / Decel Time select. Set Input to Accel / Decel Times 1 to 4 Digital Potentiometer Input Increase or Decrease Mechanical Brake Feedback

Keypad

Keypad Features	LCD Display with 6 Alpha-numeric lines. Multi-Language Support Hot Pluggable, Remote Mount Option, and CopyCat Feature, IP65 rating when remote mounted on enclosure LED's - Green - drive is on, Yellow - indicates a warning, Red - indicates an alarm, Amber - Indicates active Menukeys and H-O-A keys
Keypad Keys	Status - shows status of drive Quick Menu - Enters Quick Start, Parameter Data Check, or Trending Modes Main Menu - Used for programming all drive parameters Alarm Log - Used to display Alarm list Back - Reverts to previous step or layer in parameter structure Cancel - Used to cancel last change or command Info - Displays information about a command, parameter, or function in any display. Hand/Off/Auto - Used to control drive locally or put drive in remote mode Reset - Used to reset Warnings or Alarms
Password	2 Level Password Protection
Alternate Motor Parameters	Up to 4 Separate complete parameter set-ups are available
Graphical Trending	Trend - Speed, Power, or Frequency

RS485 Modbus RTU Serial Communications

Physical Level:	EIA/RS485
Transmission distance:	1640 ft (500m)
Node Address:	32
Transmission Speed:	2400, 4800, 9600, 19200, 38400, or 115200 (bits/s)
Transmission Mode:	Half Duplex
Transmission Protocol:	Modbus RTU
Character Code:	Binary
Character Length:	8 Bits
Error Check:	CRC

Mounting Clearance

All AF-650 GP drives can be mounted Side-by-Side without spacing. For all drives rated 125HP or below allow 3.4 inches (100mm) free space above and below. For all drives rated 150HP and above allow 8.9 inches (225mm) free space above and below.
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AF-600 FP Enclosed Drive Panels

Product Description

The AF-600 FP™ Enclosed Drive Panel is an enclosed version of the stand-alone AF-600 FP Fan and Pump/Variable Torque drive and incorporates contactors, switches, pilot lights and drive bypass functionality. A full range of enclosed drives—in Type 1, slimline or standard, 12 or 3R enclosures—provides contractors a one-stop-shop source for their drive needs.

The available configurations include:

- 208Vac, 460Vac and 575Vac offerings
- Up to 300HP in standard offering
- Up to 500HP available as factory quote
- Up to 650HP in Disconnect Drive
- Up to 1000HP MultiPulse panels (e.g., 12, 18 or 24 pulse) available as factory quote
- Slimline NEMA Type 1 enclosure (standard on lower HP units)
- Traditional NEMA Type 1 enclosure (standard on higher HP units; optional on some lower HP units)
- Traditional NEMA Type 12 enclosure
- Traditional NEMA 3R enclosure
- Disconnect Drive with compact size
- Non-bypass with full feature set
- Drive +2 contactor bypass with full feature set
- Drive +3 contactor bypass with full feature set
- Drive with Redundant Drive bypass to maximize run time performance

The AF-600 FP Panel slimline enclosure saves on space and can reduce installation time in tight spaces. In addition, AF-600 FP Panels can be mounted in “C” channels, further simplifying installation.

Visit <http://www.geindustrial.com/drives> for additional product information including programming guides, drawings, programming software, an energy savings calculator, and much more.



AF-600 FP Enclosed Drive Panels



AF-600 FP Enclosed Drive Panels

Drive Panels Product Numbering System Diagram

(Product number for illustrative purposes only)

Description	6K	FP	X	X	NNN	N	X	X	N/X	N/X	N/X
GE Product Code											
Drive Type FP = AF-600FP											
Input Voltage C = 208V H = 460V N = 575V											
Configuration L = Disconnect Drive D = Non-Bypass 2 = 2 Contactor Bypass 3 = 3 Contactor Bypass R = Redundant Drive Bypass											
HP Rating 003 = 3 HP 010 = 10 HP 100 = 100 HP											
Enclosure Type 1 = Type 1 G = NEMA 1 with Conformal Coating 2 = Type 12 D = NEMA 12 with Conformal Coating 6 = Type 3R R = NEMA 3R with Conformal Coating											
Reactor R = Standard Reactor, eqv 5% Line Impedance F = Equivalent 8% Line Impedance C = 3% Load Reactor 2 = F + C V = 6.5% Line Impedance U = 1% Load Reactor											
Disconnect/Circuit Breaker D = Disconnect, Fused (100k AIC) C = Circuit Breaker, Mag Break (65k AIC)											
									Communication Options X = Standard (Modbus RTU, Metasys N2 and Apogee FLN P1) B = Bacnet D = DeviceNet E = Ethernet IP L = LonWorks® M = ModBus TCP N = ProfiNet RT P = ProfiBus DP		
									Control Options X = None A = Automatic Bypass G = Analog I/O Module M = Additional Input and Output R = Loss of Reference Control, Run @ Preset Speed S = Smoke Purge Y = Relay Output Module B = A + G P = G + R + S C = A + Y Q = Y + R D = A + G + R T = Y + S E = A + Y + R U = M + R + S F = A + G + S V = Y + R + S H = A + Y + S W = R + S J = A + G + R + S K = A + Y + R + S L = G + R N = G + S 1 = A + M 6 = A + R + S 2 = A + R 7 = A + M + R + S 3 = A + S 8 = M + R 4 = A + M + R 9 = M + S 5 = A + M + S		
									Operator Devices (Door Mounted) X = None (includes HOA) E = ETM K = Door mounted keypad and USB port L = Drive Run & Fault Pilot Lights P = Speed Pot 1 = E + L 2 = E + P 3 = L + P 4 = E + L + P		



AF-600 FP Enclosed Drive Panels

Enclosed Disconnect Drive Non-Bypass Pricing

As standard, all Enclosed Disconnect Drives include a fusible disconnect switch and fuses, an A2 rated EMI filter, Modbus RTU, Metasys N2, and Apgee FLN P1 communication protocols, and the equivalent of 5% line reactor

208 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	List Price GO-5FPP	List Price Adders, GO-5FPP							Communications & Option Boards
			Conformal Coating	Circuit Breaker	8% AC Line Impedance ¹	6.5% AC Line Impedance ¹	3% Load Reactor	1.0% Load Reactor	Door Mounted Keypad	
1	6KFPCLO011RDXXX	\$1900.00	\$210.00	\$636.00	\$469.00	\$400.00	\$603.00	N/A	N/A	All communication and option boards are field installable. Please select from core product.
2	6KFPCLO021RDXXX	\$1940.00	\$210.00	\$636.00	\$469.00	\$400.00	\$603.00	N/A	N/A	
3	6KFPCLO031RDXXX	\$2065.00	\$210.00	\$636.00	\$469.00	\$400.00	\$603.00	N/A	N/A	
5	6KFPCLO051RDXXX	\$2500.00	\$210.00	\$636.00	\$593.00	\$510.00	\$610.00	N/A	N/A	
7.5	6KFPCLO071RDXXX	\$3000.00	\$210.00	\$636.00	\$684.00	\$585.00	\$813.00	N/A	N/A	
10	6KFPCLO101RDXXX	\$3440.00	\$210.00	\$636.00	\$717.00	\$610.00	\$880.00	N/A	N/A	
15	6KFPCLO151RDXXX	\$4170.00	\$210.00	\$636.00	\$905.00	\$775.00	\$917.00	N/A	N/A	
20	6KFPCLO201RDXXX	\$4935.00	\$210.00	\$755.00	\$999.00	\$850.00	\$945.00	N/A	N/A	
25	6KFPCLO251RDXXX	\$6075.00	\$210.00	\$766.00	\$1170.00	\$995.00	\$1333.00	N/A	N/A	
30	6KFPCLO301RDXXX	\$8910.00	\$210.00	\$766.00	\$1170.00	\$995.00	\$1333.00	N/A	N/A	
40	6KFPCLO401RDXXX	\$10680.00	\$210.00	\$1590.00	\$1243.00	\$1060.00	\$1567.00	N/A	N/A	
50	6KFPCLO501RDXXX	\$12170.00	\$210.00	\$1845.00	\$1418.00	\$1210.00	\$2213.00	N/A	N/A	
60	6KFPCLO601RDXXX	\$15440.00	\$210.00	\$1845.00	\$1506.00	\$1280.00	\$2399.00	N/A	N/A	

460 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	List Price GO-5FPP	List Price Adders, GO-5FPP							Communications & Option Boards
			Conformal Coating	Circuit Breaker	8% AC Line Impedance ¹	6.5% AC Line Impedance ¹	3% Load Reactor	1.0% Load Reactor	Door Mounted Keypad	
1	6KFPHL0011RDXXX	\$1990.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	All communication and option boards are field installable. Please select from core product.
2	6KFPHL0021RDXXX	\$2025.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	
3	6KFPHL0031RDXXX	\$2275.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	
5	6KFPHL0051RDXXX	\$2510.00	\$210.00	\$636.00	\$553.00	\$470.00	\$580.00	\$495.00	N/A	
7.5	6KFPHL0071RDXXX	\$2735.00	\$210.00	\$636.00	\$620.00	\$530.00	\$603.00	\$515.00	N/A	
10	6KFPHL0101RDXXX	\$3125.00	\$210.00	\$636.00	\$778.00	\$665.00	\$610.00	\$520.00	N/A	
15	6KFPHL0151RDXXX	\$3480.00	\$210.00	\$636.00	\$808.00	\$690.00	\$813.00	\$700.00	N/A	
20	6KFPHL0201RDXXX	\$4010.00	\$210.00	\$636.00	\$1069.00	\$910.00	\$880.00	\$750.00	N/A	
25	6KFPHL0251RDXXX	\$4525.00	\$210.00	\$636.00	\$1069.00	\$910.00	\$880.00	\$750.00	N/A	
30	6KFPHL0301RDXXX	\$5450.00	\$210.00	\$636.00	\$1214.00	\$1035.00	\$917.00	\$780.00	N/A	
40	6KFPHL0401RDXXX	\$7385.00	\$210.00	\$755.00	\$1214.00	\$1035.00	\$945.00	\$810.00	N/A	
50	6KFPHL0501RDXXX	\$8155.00	\$210.00	\$766.00	\$1266.00	\$1080.00	\$1333.00	\$1135.00	N/A	All communication and option boards are field installable. Please select from core product.
60	6KFPHL0601RDXXX	\$9400.00	\$210.00	\$766.00	\$1266.00	\$1080.00	\$1333.00	\$1135.00	N/A	
75	6KFPHL0751RDXXX	\$10875.00	\$210.00	\$1590.00	\$1320.00	\$1125.00	\$1567.00	\$1335.00	N/A	
100	6KFPHL1001RDXXX	\$14325.00	\$210.00	\$1845.00	\$1530.00	\$1310.00	\$2213.00	\$1885.00	N/A	
125	6KFPHL1251RDXXX	\$17235.00	\$210.00	\$1845.00	\$1620.00	\$1380.00	\$2399.00	\$2040.00	N/A	
150	6KFPHL1501RDXXX	\$21770.00	\$705.00	\$1845.00	\$1691.00	\$1440.00	\$2511.00	\$2135.00	\$600.00	
200	6KFPHL2001RDXXX	\$25050.00	\$705.00	\$2575.00	\$1850.00	\$1575.00	\$2570.00	\$2185.00	\$600.00	
250	6KFPHL2501RDXXX	\$30210.00	\$705.00	\$2575.00	\$1954.00	\$1665.00	\$2761.00	\$2350.00	\$600.00	
300	6KFPHL3001RDXXX	\$35700.00	\$705.00	\$4191.00	\$1954.00	\$1665.00	\$3104.00	\$2640.00	\$600.00	
350	6KFPHL3501RDXXX	\$45000.00	\$705.00	\$5867.00	\$2188.00	\$1860.00	\$3280.00	\$2800.00	\$600.00	
450	6KFPHL4501RDXXX	\$60000.00	Std	\$6845.00	\$3000.00	\$2550.00	\$3560.17	\$3026.00	\$600.00	
500	6KFPHL5001RDXXX	\$70000.00	Std	\$8800.00	\$3800.00	\$3230.00	\$4509.55	\$3833.00	\$600.00	
550	6KFPHL5501RDXXX	\$80000.00	Std	\$9780.00	\$4200.00	\$3570.00	\$4984.24	\$4237.00	\$600.00	
600	6KFPHL6001RDXXX	\$89000.00	Std	\$10760.00	\$4600.00	\$3910.00	\$5458.93	\$4640.00	\$600.00	

¹Drive comes standard with 5% line impedance via DC Link Reactor.



AF-600 FP Enclosed Drive Panels

Enclosed Disconnect Drive Non-Bypass Pricing

575 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	List Price GO-5FPP	List Price Adders, GO-5FPP							Communications & Option Boards
			Conformal Coating	Circuit Breaker	8% AC Line Impedance ¹	6.5% AC Line Impedance ¹	3% Load Reactor	1.0% Load Reactor	Door Mounted Keypad	
1	6KFPNL0011RDXXX	\$2950.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	All communication and option boards are field installable. Please select from core product.
2	6KFPNL0021RDXXX	\$3000.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	
3	6KFPNL0031RDXXX	\$3100.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	
5	6KFPNL0051RDXXX	\$3310.00	\$210.00	\$636.00	\$553.00	\$470.00	\$580.00	\$495.00	N/A	
7.5	6KFPNL0071RDXXX	\$3600.00	\$210.00	\$636.00	\$620.00	\$530.00	\$603.00	\$515.00	N/A	
10	6KFPNL0101RDXXX	\$4110.00	\$210.00	\$636.00	\$778.00	\$665.00	\$610.00	\$520.00	N/A	
15	6KFPNL0151RDXXX	\$4635.00	\$210.00	\$636.00	\$808.00	\$690.00	\$813.00	\$700.00	N/A	
20	6KFPNL0201RDXXX	\$5270.00	\$210.00	\$636.00	\$1069.00	\$910.00	\$880.00	\$750.00	N/A	
25	6KFPNL0251RDXXX	\$5935.00	\$210.00	\$636.00	\$1069.00	\$910.00	\$880.00	\$750.00	N/A	
30	6KFPNL0301RDXXX	\$7140.00	\$210.00	\$636.00	\$1214.00	\$1035.00	\$917.00	\$780.00	N/A	
40	6KFPNL0401RDXXX	\$9660.00	\$210.00	\$755.00	\$1214.00	\$1035.00	\$945.00	\$810.00	N/A	
50	6KFPNL0501RDXXX	\$10790.00	\$210.00	\$766.00	\$1266.00	\$1080.00	\$1333.00	\$1135.00	N/A	
60	6KFPNL0601RDXXX	\$12310.00	\$210.00	\$766.00	\$1266.00	\$1080.00	\$1333.00	\$1135.00	N/A	
75	6KFPNL0751RDXXX	\$14225.00	\$210.00	\$1590.00	\$1320.00	\$1125.00	\$1567.00	\$1335.00	N/A	
100	6KFPNL1001RDXXX	\$18975.00	\$210.00	\$1845.00	\$1530.00	\$1310.00	\$2213.00	\$1885.00	N/A	
125	6KFPNL1251RDXXX	\$22555.00	\$210.00	\$1845.00	\$1620.00	\$1380.00	\$2399.00	\$2040.00	N/A	
150	6KFPNL1501RDXXX	\$34100.00	Std	\$1845.00	\$1691.00	\$1440.00	\$2511.00	\$2135.00	\$600.00	
200	6KFPNL2001RDXXX	\$34760.00	Std	\$2575.00	\$1850.00	\$1575.00	\$2570.00	\$2185.00	\$600.00	
250	6KFPNL2501RDXXX	\$41725.00	Std	\$2575.00	\$1954.00	\$1665.00	\$2761.00	\$2350.00	\$600.00	
300	6KFPNL3001RDXXX	\$49135.00	Std	\$4191.00	\$1954.00	\$1665.00	\$3104.00	\$2640.00	\$600.00	
350	6KFPNL3501RDXXX	\$60750.00	Std	\$5867.00	\$2188.00	\$1860.00	\$3280.00	\$2800.00	\$600.00	
400	6KFPNL4001RDXXX	\$81000.00	Std	\$6845.00	\$3000.00	\$2550.00	\$3560.17	\$3026.00	\$600.00	
450	6KFPNL4501RDXXX	\$94500.00	Std	\$8800.00	\$3800.00	\$3230.00	\$4509.55	\$3833.00	\$600.00	
500	6KFPNL5001RDXXX	\$108000.00	Std	\$9780.00	\$4200.00	\$3570.00	\$4984.24	\$4237.00	\$600.00	
600	6KFPNL6001RDXXX	\$120150.00	Std	\$10760.00	\$4600.00	\$3910.00	\$5458.93	\$4640.00	\$600.00	
650	6KFPNL6501RDXXX	\$130950.00	Std	\$11725.00	\$5000.00	\$4250.00	\$5935.00	\$5050.00	\$600.00	

¹Drive comes standard with 5% line impedance via DC Link Reactor.



AF-600 FP Enclosed Drive Panels

Enclosed Non-Bypass Drives Pricing

As standard, all Enclosed Non-Bypass Drives include a fusible disconnect switch and fuses, a door-mounted keypad, an HOA operator, an E-Stop button (for UL508A compliance), power on and enable lights, a customer terminal board for control connection, an A2 rated EMI filter, Modbus RTU, Metasys N2, and Apgee FLN P1 communication protocols and the equivalent of 5% line reactor.

Check Speedi Configurator for product availability and premium through GE Fastrac Program.

208 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPCD0021RDXXX	7.5	\$2088.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00
3	6KFPCD0031RDXXX	10.6	\$2215.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00
5	6KFPCD0051RDXXX	16.7	\$2642.00	\$570.00	\$1000.00	\$210.00	\$593.00	\$610.00	\$636.00
7.5	6KFPCD0071RDXXX	24.2	\$3198.00	\$590.00	\$1500.00	\$210.00	\$684.00	\$813.00	\$636.00
10	6KFPCD0101RDXXX	30.8	\$3636.00	\$590.00	\$1500.00	\$210.00	\$717.00	\$880.00	\$636.00
15	6KFPCD0151RDXXX	46.2	\$4369.00	\$590.00	\$1750.00	\$210.00	\$905.00	\$917.00	\$636.00
20	6KFPCD0201RDXXX	59.4	\$5135.00	\$740.00	\$1750.00	\$210.00	\$999.00	\$945.00	\$755.00
25	6KFPCD0251RDXXX	74.8	\$6373.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00
30	6KFPCD0301RDXXX	88.0	\$9210.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00
40	6KFPCD0401RDXXX	115	\$11180.00	\$894.00	\$2500.00	\$210.00	\$1243.00	\$1567.00	\$1590.00
50	6KFPCD0501RDXXX	143	\$12670.00	\$1014.00	\$3500.00	\$210.00	\$1418.00	\$2213.00	\$1845.00
60	6KFPCD0601RDXXX	170	\$15938.00	\$1275.00	\$3500.00	\$210.00	\$1506.00	\$2399.00	\$1845.00

460 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPHD0021RDXXX	3.4	\$2175.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
3	6KFPHD0031RDXXX	4.8	\$2422.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
5	6KFPHD0051RDXXX	8.2	\$2657.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00
7.5	6KFPHD0071RDXXX	11.0	\$2882.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00
10	6KFPHD0101RDXXX	14.5	\$3271.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00
15	6KFPHD0151RDXXX	21.0	\$3679.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00
20	6KFPHD0201RDXXX	27.0	\$4208.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00
25	6KFPHD0251RDXXX	34.0	\$4719.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00
30	6KFPHD0301RDXXX	40.0	\$5644.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00
40	6KFPHD0401RDXXX	52.0	\$7582.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00
50	6KFPHD0501RDXXX	65.0	\$8453.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
60	6KFPHD0601RDXXX	80.0	\$9697.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
75	6KFPHD0751RDXXX	105.0	\$11174.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00
100	6KFPHD1001RDXXX	130	\$14824.00	\$1186.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00
125	6KFPHD1251RDXXX	160	\$17735.00	\$1419.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00
150	6KFPHD1501RDXXX	190	\$22466.00	\$1797.00	\$4000.00	\$705.00	\$1691.00	\$2511.00	\$1845.00
200	6KFPHD2001RDXXX	240	\$25745.00	\$2060.00	N/A	\$705.00	\$1850.00	\$2570.00	\$2575.00
250	6KFPHD2501RDXXX	302	\$30906.00	\$2472.00	N/A	\$705.00	\$1954.00	\$2761.00	\$2575.00
300	6KFPHD3001RDXXX	361	\$36396.00	\$2912.00	N/A	\$705.00	\$1954.00	\$3104.00	\$4191.00

575 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPPND0021RDXXX	2.7	\$3150.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
3	6KFPPND0031RDXXX	3.9	\$3250.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
5	6KFPPND0051RDXXX	6.1	\$3454.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00
7.5	6KFPPND0071RDXXX	9.0	\$3745.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00
10	6KFPPND0101RDXXX	11.0	\$4252.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00
15	6KFPPND0151RDXXX	18.0	\$4783.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00
20	6KFPPND0201RDXXX	22.0	\$5470.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00
25	6KFPPND0251RDXXX	27.0	\$6135.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00
30	6KFPPND0301RDXXX	34.0	\$7337.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00
40	6KFPPND0401RDXXX	41.0	\$9856.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00
50	6KFPPND0501RDXXX	52.0	\$10990.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
60	6KFPPND0601RDXXX	62.0	\$12606.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
75	6KFPPND0751RDXXX	83.0	\$14525.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00
100	6KFPPND1001RDXXX	100	\$19271.00	\$1542.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00
125	6KFPPND1251RDXXX	131	\$23055.00	\$1844.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00
150	6KFPPND1501RDXXX	155	\$34583.00	\$2767.00	\$4000.00	\$705.00	\$1691.00	\$2511.00	\$1845.00

¹Drive comes standard with 5% line impedance via DC Link Reactor.



AF-600 FP Enclosed Drive Panels

Enclosed 2 Contactor Bypass Drives Pricing

As standard, all Enclosed 2 Contactor Bypass Drives include a fusible disconnect switch and fuses, a door-mounted keypad, an HOA operator, an E-Stop button (for UL508A compliance), a Drive/Off/Bypass switch, power on, enable, bypass and overload lights, a customer terminal board for control connection, an A2 rated EMI filter, Modbus RTU, Metasys N2, and Apgee FLN P1 communication protocols, the equivalent of 5% line reactor, a drive output contactor interlocked with an FVNR bypass contactor, and Class 20/30 overloads.

Check Speedi Configurator for product availability and premium through GE Fastrac Program.

208 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPC20021RDXXX	7.5	\$2150.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00
3	6KFPC20031RDXXX	10.6	\$2392.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00
5	6KFPC20051RDXXX	16.7	\$2833.00	\$570.00	\$1000.00	\$210.00	\$593.00	\$610.00	\$636.00
7.5	6KFPC20071RDXXX	24.2	\$3456.00	\$590.00	\$1500.00	\$210.00	\$684.00	\$813.00	\$636.00
10	6KFPC20101RDXXX	30.8	\$4135.00	\$590.00	\$1500.00	\$210.00	\$717.00	\$880.00	\$636.00
15	6KFPC20151RDXXX	46.2	\$4872.00	\$590.00	\$1750.00	\$210.00	\$905.00	\$917.00	\$636.00
20	6KFPC20201RDXXX	59.4	\$5823.00	\$590.00	\$1750.00	\$210.00	\$999.00	\$945.00	\$755.00
25	6KFPC20251RDXXX	74.8	\$7226.00	\$590.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00
30	6KFPC20301RDXXX	88.0	\$10857.00	\$590.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00
40	6KFPC20401RDXXX	115	\$13598.00	\$1088.00	\$2500.00	\$210.00	\$1243.00	\$1567.00	\$1590.00
50	6KFPC20501RDXXX	143	\$16048.00	\$1284.00	\$3500.00	\$210.00	\$1418.00	\$2213.00	\$1845.00
60	6KFPC20601RDXXX	170	\$19626.00	\$1570.00	\$3500.00	\$210.00	\$1506.00	\$2399.00	\$1845.00

460 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPH20021RDXXX	3.4	\$2230.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
3	6KFPH20031RDXXX	4.8	\$2532.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
5	6KFPH20051RDXXX	8.2	\$2760.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00
7.5	6KFPH20071RDXXX	11.0	\$3019.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00
10	6KFPH20101RDXXX	14.5	\$3458.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00
15	6KFPH20151RDXXX	21.0	\$3906.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00
20	6KFPH20201RDXXX	27.0	\$4404.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00
25	6KFPH20251RDXXX	34.0	\$5093.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00
30	6KFPH20301RDXXX	40.0	\$6129.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00
40	6KFPH20401RDXXX	52.0	\$8042.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00
50	6KFPH20501RDXXX	65.0	\$8913.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
60	6KFPH20601RDXXX	80.0	\$10091.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
75	6KFPH20751RDXXX	105.0	\$12009.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00
100	6KFPH21001RDXXX	130	\$16205.00	\$1296.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00
125	6KFPH21251RDXXX	160	\$19386.00	\$1551.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00
150	6KFPH21501RDXXX	190	\$24028.00	\$1922.00	\$4000.00	\$705.00	\$1691.00	\$2511.00	\$1845.00
200	6KFPH22001RDXXX	240	\$28075.00	\$2246.00	N/A	\$705.00	\$1850.00	\$2570.00	\$2575.00
250	6KFPH22501RDXXX	302	\$33861.00	\$2709.00	N/A	\$705.00	\$1954.00	\$2761.00	\$2575.00
300	6KFPH23001RDXXX	361	\$41574.00	\$3326.00	N/A	\$705.00	\$1954.00	\$3104.00	\$4191.00

575 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPN20021RDXXX	2.7	\$3291.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
3	6KFPN20031RDXXX	3.9	\$3450.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
5	6KFPN20051RDXXX	6.1	\$3588.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00
7.5	6KFPN20071RDXXX	9.0	\$3925.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00
10	6KFPN20101RDXXX	11.0	\$4495.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00
15	6KFPN20151RDXXX	18.0	\$5368.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00
20	6KFPN20201RDXXX	22.0	\$5859.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00
25	6KFPN20251RDXXX	27.0	\$6620.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00
30	6KFPN20301RDXXX	34.0	\$7968.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00
40	6KFPN20401RDXXX	41.0	\$10454.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00
50	6KFPN20501RDXXX	52.0	\$11587.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
60	6KFPN20601RDXXX	62.0	\$13118.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
75	6KFPN20751RDXXX	83.0	\$15612.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00
100	6KFPN21001RDXXX	100	\$21066.00	\$1685.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00
125	6KFPN21251RDXXX	131	\$25201.00	\$2016.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00
150	6KFPN21501RDXXX	155	\$37802.00	\$3024.00	\$4000.00	\$705.00	\$1691.00	\$2511.00	\$1845.00

¹Drive comes standard with 5% line impedance via DC Link Reactor.

AF-600 FP Enclosed Drive Panels

Enclosed 3 Contactor Bypass Drives Pricing

As standard, all Enclosed 3 Contactor Bypass Drives include a fusible disconnect switch and fuses, a door-mounted keypad, an HOA operator, an E-Stop button (for UL508A compliance), a Drive/Off/Bypass switch, a Test/Isolate/Normal switch, power on, enable, bypass and overload lights, a customer terminal board for control connection, an A2 rated EMI filter, Modbus RTU, Metasys N2, and Apgee FLN P1 communication protocols, the equivalent of 5% line reactor, a drive output contactor interlocked with an FVNR bypass contactor, a drive line isolation contactor, and Class 20/30 overloads.

Check Speedi Configurator for product availability and premium through GE Fastrac Program.

208 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPC30021RDXXX	7.5	\$2345.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00
3	6KFPC30031RDXXX	10.6	\$2662.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00
5	6KFPC30051RDXXX	16.7	\$3133.00	\$570.00	\$1000.00	\$210.00	\$593.00	\$610.00	\$636.00
7.5	6KFPC30071RDXXX	24.2	\$3752.00	\$590.00	\$1500.00	\$210.00	\$684.00	\$813.00	\$636.00
10	6KFPC30101RDXXX	30.8	\$4589.00	\$590.00	\$1500.00	\$210.00	\$717.00	\$880.00	\$636.00
15	6KFPC30151RDXXX	46.2	\$5347.00	\$590.00	\$1750.00	\$210.00	\$905.00	\$917.00	\$636.00
20	6KFPC30201RDXXX	59.4	\$6312.00	\$590.00	\$1750.00	\$210.00	\$999.00	\$945.00	\$755.00
25	6KFPC30251RDXXX	74.8	\$7776.00	\$590.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00
30	6KFPC30301RDXXX	88.0	\$11812.00	\$590.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00
40	6KFPC30401RDXXX	115	\$14773.00	\$1182.00	\$2500.00	\$210.00	\$1243.00	\$1567.00	\$1590.00
50	6KFPC30501RDXXX	143	\$17138.00	\$1371.00	\$3500.00	\$210.00	\$1418.00	\$2213.00	\$1845.00
60	6KFPC30601RDXXX	170	\$20811.00	\$1665.00	\$3500.00	\$210.00	\$1506.00	\$2399.00	\$1845.00

460 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPH30021RDXXX	3.4	\$2450.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
3	6KFPH30031RDXXX	4.8	\$2697.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
5	6KFPH30051RDXXX	8.2	\$2955.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00
7.5	6KFPH30071RDXXX	11.0	\$3252.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00
10	6KFPH30101RDXXX	14.5	\$3661.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00
15	6KFPH30151RDXXX	21.0	\$4129.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00
20	6KFPH30201RDXXX	27.0	\$4667.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00
25	6KFPH30251RDXXX	34.0	\$5393.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00
30	6KFPH30301RDXXX	40.0	\$6474.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00
40	6KFPH30401RDXXX	52.0	\$8503.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00
50	6KFPH30501RDXXX	65.0	\$9433.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
60	6KFPH30601RDXXX	80.0	\$10596.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
75	6KFPH30751RDXXX	105.0	\$12709.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00
100	6KFPH31001RDXXX	130	\$17105.00	\$1368.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00
125	6KFPH31251RDXXX	160	\$20335.00	\$1627.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00
150	6KFPH31501RDXXX	190	\$25250.00	\$2020.00	\$4000.00	\$705.00	\$1691.00	\$2511.00	\$1845.00
200	6KFPH32001RDXXX	240	\$29639.00	\$2371.00	N/A	\$705.00	\$1850.00	\$2570.00	\$2575.00
250	6KFPH32501RDXXX	302	\$35526.00	\$2842.00	N/A	\$705.00	\$1954.00	\$2761.00	\$2575.00
300	6KFPH33001RDXXX	361	\$43786.00	\$3503.00	N/A	\$705.00	\$1954.00	\$3104.00	\$4191.00

575 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	Max. Cont. Current	List Price GO-5FPP	List Price Adders, GO-5FPP					
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	8% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker
2	6KFPN30021RDXXX	2.7	\$3485.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
3	6KFPN30031RDXXX	3.9	\$3600.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00
5	6KFPN30051RDXXX	6.1	\$3842.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00
7.5	6KFPN30071RDXXX	9.0	\$4228.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00
10	6KFPN30101RDXXX	11.0	\$4759.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00
15	6KFPN30151RDXXX	18.0	\$5725.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00
20	6KFPN30201RDXXX	22.0	\$6067.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00
25	6KFPN30251RDXXX	27.0	\$7011.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00
30	6KFPN30301RDXXX	34.0	\$8416.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00
40	6KFPN30401RDXXX	41.0	\$11054.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00
50	6KFPN30501RDXXX	52.0	\$12263.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
60	6KFPN30601RDXXX	62.0	\$13775.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00
75	6KFPN30751RDXXX	83.0	\$16522.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00
100	6KFPN31001RDXXX	100	\$22237.00	\$1779.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00
125	6KFPN31251RDXXX	131	\$26436.00	\$2115.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00
150	6KFPN31501RDXXX	155	\$39654.00	\$3172.00	\$4000.00	\$705.00	\$1691.00	\$2511.00	\$1845.00

¹Drive comes standard with 5% line impedance via DC Link Reactor.



AF-600 FP Enclosed Drive Panels

Enclosed Redundant Drive Bypass Pricing

As standard, all Enclosed Redundant Drives include two door-mounted keypads, an HOA operator, an E-Stop button (for UL508A compliance), a Drive 1 / Off / Drive 2 switch, a power on light, individual drive run and fault lights, a customer terminal board for control connections, A2 rated EMI filters, Modbus RTU, Metasys N2, and Apgee FLN P1 communication protocols, the equivalent of 5% line reactors, and two interlocked drive output contactors.

460 Vac, 3-Phase, 60Hz Input Power

Variable Torque HP Rating	AF-600 FP Panel Product No.	List Price GO-5FPP	List Price Adders, GO-5FPP	
			Traditional NEMA 1 Enclosure	8% AC Line Impedance ¹
15	6KFPHR0151RDXXX	\$6800.00	\$500.00	\$808.00
20	6KFPHR0201RDXXX	\$7800.00	\$500.00	\$1069.00
25	6KFPHR0251RDXXX	\$9800.00	\$500.00	\$1069.00
30	6KFPHR0301RDXXX	\$11000.00	\$500.00	\$1214.00
40	6KFPHR0401RDXXX	\$12000.00	\$500.00	\$1214.00
50	6KFPHR0501RDXXX	\$14000.00	\$500.00	\$1266.00
60	6KFPHR0601RDXXX	\$16500.00	N/A	\$1266.00
75	6KFPHR0751RDXXX	\$20000.00	N/A	\$1320.00
100	6KFPHR1001RDXXX	\$24500.00	N/A	\$1530.00
125	6KFPHR1251RDXXX	\$30000.00	N/A	\$1620.00

¹Each drive comes standard with 5% line impedance via DC Link Reactor.

Use characters and adders listed under Communication Options. One card will be provided for each drive so the adder shown should be doubled (e.g., \$600 for a single drive, \$1200 for a Redundant drive).



AF-600 FP Enclosed Drive Panels

AF-600FP Enclosed Bypass Drives Options Pricing

Operator Devices

Option Description	Option Code	List Adder
None (Includes HOA)	X	\$0.00
Elapsed Time Meter (ETM)	E	\$275.00
Drive Run & Fault Pilot Lights	L	\$250.00
Speed Potentiometer	P	\$115.00

Control Options

Option Description	Option Code	List Adder
None	X	\$0.00
Automatic Bypass ¹	A	\$200.00
Additional Input and Output ^{2,5}	M	\$600.00
Loss of Reference Control, Run @ Preset Speed ³	R	\$50.00
Smoke Purge	S	\$50.00
Analog I/O Module ⁵	G	\$500.00
Relay Output Module ⁵	Y	\$475.00

Communication Options

Option Description	Option Code	List Adder
Standard (Modbus RTU, Metasys N2 and Apogee FLN P1)	X	\$0.00
Ethernet IP ⁴	E	\$700.00
LonWorks®	L	\$600.00
Bacnet®	B	\$600.00
DeviceNet	D	\$600.00
ModBus TCP ⁴	M	\$700.00
ProfiBus DP	P	\$725.00
ProfiNet RT	N	Consult Factory

¹Automatic Bypass is only available on 2 or 3 contactor units.

²General Purpose I/O – OPCGPIO (24V DIO, 0-10V input, second 4-20mA AO).

³Applies to 4-20mA Analog Speed Reference only.

⁴The Ethernet IP and ModBus TCP communication cards use two option slots. When either is installed, no other option card can be supplied.

⁵Only one Control Option Card can be installed at a time.

Model Number and Pricing Example

Description:

460Vac, 25 HP HVAC 3 Contactor Bypass Drive with 5% AC Line Impedance, NEMA 1 Enclosure, Additional I/O, Smoke Purge, and Metasys N2® Communications

Model Number: 6KFPH30251FDX9X

460Vac, 25 HP 3 contactor bypass drive base list price:	\$5393.00
5% AC Line Impedance list adder:	\$0.00
Additional I/O adder:	\$600.00
Smoke Purge list adder:	\$50.00
Metasys N2® list adder:	\$0.00
Total List Price	\$6043.00

Fastrac for AF-600 FP Enclosed Drive Panels

The AF-600 FP Drive Panels are available as part of GE's Fastrac program. These short-cycled manufacturing lead times, half the normal cycle times, allow you to get the same product faster and meet your construction cycle needs.

Contact your local GE Sales office for availability and premium specifics on this program and for ordering assistance.

The following products and configurations are available with the Drive Panel Fastrac program:

- AF-600 FP NEMA Type 1 Panels
- Non-Bypass and 2 or 3 Contactor Bypass
- Up to 30HP @ 208 Vac and 75HP @ 460 Vac or 575 Vac
- Fusible disconnect or circuit breaker
- 5% or 8% line impedance
- HOA operator, Drive Run and Fault Pilot Lights, and/or a Speed Potentiometer
- Modbus RTU, Metasys N2 and Apogee FLN P1 communications



AF-650 GP Enclosed Drive Panels

Product Description

Combining all the features of the AF-650 GP™ General Purpose / Constant Torque core drive with line and load filters, contactor and control schemes and functionality like dynamic braking and closed loop speed control, the AF-650 GP Enclosed Drive Panel can service the tougher industrial and commercial drive needs.

With Type 1, 12 and 3R enclosures, and with power ratings up to 300HP, the AF-650 GP™ Panel has the ratings to meet most needs. Ratings include:

- A compact design to minimize cost and space, the Disconnect Drive panel is available in NEMA Type 1 enclosures with power ratings up to 50HP @ 208V, 550HP @ 460V, and 600HP @ 575V.
- 208Vac, 460Vac and 575Vac offerings
- Up to 300HP available in standard offering
- Up to 500HP available as factory quote
- Up to 600HP in Disconnect Drive
- Up to 1000HP MultiPulse panels (e.g., 12, 18 or 24 pulse) available as factory quote
- Slimline NEMA Type 1 enclosure (standard on lower HP units)
- Traditional NEMA Type 1 enclosure (standard on higher HP units)
- Traditional NEMA Type 12 enclosure
- Traditional NEMA 3R enclosure
- Disconnect Drive with compact size
- Non-bypass with full feature set
- Drive +2 contactor bypass with full feature set
- Drive +3 contactor bypass with full feature set

With slimline designs and the ability to mount in "C" channels, the AF-650 GP Panel not only provides performance, reliability, and a variety of options, but it saves on space and can reduce installation time in tight spaces.



Visit <http://www.geindustrial.com/drives> for additional product information including programming guides, drawings, programming software, an energy savings calculator, and much more.



AF-650 GP Enclosed Drive Panels

Drive Panels Product Numbering System Diagram

(Product number for illustrative purposes only)

Description	6K	GP	X	X	NNN	N	X	X	N/X	N/X	N/X
GE Product Code											
Drive Type											
GP = AF-650 GP											
Input Voltage											
C = 208V											
H = 460V											
N = 575V											
Configuration											
L = Disconnect Drive											
D = Non-Bypass											
1 = Non-Bypass with Output Contactor											
2 = 2 Contactor Bypass											
3 = 3 Contactor Bypass											
HP Rating											
001 = 1 HP											
010 = 10 HP											
300 = 300 HP											
Enclosure Type											
1 = Type 1											
2 = Type 12											
6 = Type 3R											
Reactor/Power											
R = Standard Reactor, eqv. 3% Line Impedance											
C = 3% Load Reactor											
D = Dynamic Brake Chopper											
F = 5% AC Line Impedance											
H = Motor Space Heater & Extra VA CPT											
M = Matrix Harmonic Filter											
U = 1% Load Reactor											
V = 4.5% Line Impedance											
A = D + H											
B = D + M											
E = F + H											
1 = C + D + F											
2 = C + F											
3 = C + D + H											
4 = C + D											
5 = C + F + H											
Communication Options											
X = Standard (Modbus RTU)											
D = DeviceNet											
E = EtherNet IP											
M = ModBus TCP											
N = ProfiNet RT											
P = ProfiBus DP											
Control Options											
X = None (Default)											
E = Encoder Module											
M = Additional Input and Output											
R = Loss of Reference Control, Run @ Preset Speed											
S = Resolver Module											
Y = Relay Output Module											
3 = E + R											
4 = Y + R											
6 = S + R											
8 = M + R											
Operator Devices											
X = None (includes HOA)											
E = ETM											
F = Forward/Reverse Selector											
K = Door Mounted Keypad and USB Port											
L = Drive Run & Fault Pilot Lights											
P = Speed Pot											
S = Start/Stop Operators											
A = L + S											
B = P + S											
C = F + P											
D = E + F + L											
G = E + L + S											
1 = E + L											
2 = E + P											
3 = L + P											
4 = E + L + P											
5 = E + F + L + P											
Disconnect/Circuit Breaker											
D = Disconnect, Fused (100k AIC)											
C = Circuit Breaker, Mag Break (65k AIC)											



AF-650 GP Enclosed Drive Panels

Enclosed Disconnect Drive Non-Bypass Pricing

As standard, all Enclosed Disconnect Drives include a fusible disconnect switch and fuses, an A2 rated EMI filter, Modbus RTU communication protocol, and the equivalent of 3% line reactor.

208 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	List Price GO-5GPP	List Price Adders, GO-5GPP							Communications & Option Boards
			Conformal Coating	Circuit Breaker	5% AC Line Impedance ¹	4.5% AC Line Impedance ¹	3% Load Reactor	1% Load Reactor	Door Mounted Keypad	
1	6KGPCLO011RDXXX	\$2250.00	\$210.00	\$636.00	\$469.00	\$400.00	\$603.00	N/A	N/A	All communication and option boards are field installable. Please select from core product.
2	6KGPCLO021RDXXX	\$2400.00	\$210.00	\$636.00	\$469.00	\$400.00	\$603.00	N/A	N/A	
3	6KGPCLO031RDXXX	\$2890.00	\$210.00	\$636.00	\$593.00	\$510.00	\$610.00	N/A	N/A	
5	6KGPCLO051RDXXX	\$3530.00	\$210.00	\$636.00	\$684.00	\$585.00	\$813.00	N/A	N/A	
7.5	6KGPCLO071RDXXX	\$3985.00	\$210.00	\$636.00	\$717.00	\$610.00	\$880.00	N/A	N/A	
10	6KGPCLO101RDXXX	\$4825.00	\$210.00	\$636.00	\$905.00	\$775.00	\$917.00	N/A	N/A	
15	6KGPCLO151RDXXX	\$5710.00	\$210.00	\$755.00	\$999.00	\$850.00	\$945.00	N/A	N/A	
20	6KGPCLO201RDXXX	\$7130.00	\$210.00	\$766.00	\$1170.00	\$995.00	\$1333.00	N/A	N/A	
25	6KGPCLO251RDXXX	\$10295.00	\$210.00	\$766.00	\$1170.00	\$995.00	\$1333.00	N/A	N/A	
30	6KGPCLO301RDXXX	\$12560.00	\$210.00	\$1590.00	\$1243.00	\$1060.00	\$1567.00	N/A	N/A	
40	6KGPCLO401RDXXX	\$14075.00	\$210.00	\$1845.00	\$1418.00	\$1210.00	\$2213.00	N/A	N/A	
50	6KGPCLO501RDXXX	\$17830.00	\$210.00	\$1845.00	\$1506.00	\$1280.00	\$2399.00	N/A	N/A	

460 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	List Price GO-5GPP	List Price Adders, GO-5GPP							Communications & Option Boards
			Conformal Coating	Circuit Breaker	5% AC Line Impedance ¹	4.5% AC Line Impedance ¹	3% Load Reactor	1% Load Reactor	Door Mounted Keypad	
1	6KGPHLO011RDXXX	\$2350.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	All communication and option boards are field installable. Please select from core product.
2	6KGPHLO021RDXXX	\$2635.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	
3	6KGPHLO031RDXXX	\$2910.00	\$210.00	\$636.00	\$553.00	\$470.00	\$580.00	\$495.00	N/A	
5	6KGPHLO051RDXXX	\$3165.00	\$210.00	\$636.00	\$620.00	\$530.00	\$603.00	\$515.00	N/A	
7.5	6KGPHLO071RDXXX	\$3615.00	\$210.00	\$636.00	\$778.00	\$665.00	\$610.00	\$520.00	N/A	
10	6KGPHLO101RDXXX	\$4085.00	\$210.00	\$636.00	\$808.00	\$690.00	\$813.00	\$700.00	N/A	
15	6KGPHLO151RDXXX	\$4640.00	\$210.00	\$636.00	\$1069.00	\$910.00	\$880.00	\$750.00	N/A	
20	6KGPHLO201RDXXX	\$5230.00	\$210.00	\$636.00	\$1069.00	\$910.00	\$880.00	\$750.00	N/A	
25	6KGPHLO251RDXXX	\$6290.00	\$210.00	\$636.00	\$1214.00	\$1035.00	\$917.00	\$780.00	N/A	
30	6KGPHLO301RDXXX	\$8520.00	\$210.00	\$755.00	\$1214.00	\$1035.00	\$945.00	\$810.00	N/A	
40	6KGPHLO401RDXXX	\$9520.00	\$210.00	\$766.00	\$1266.00	\$1080.00	\$1333.00	\$1135.00	N/A	
50	6KGPHLO501RDXXX	\$10850.00	\$210.00	\$766.00	\$1266.00	\$1080.00	\$1333.00	\$1135.00	N/A	
60	6KGPHLO601RDXXX	\$12550.00	\$210.00	\$1590.00	\$1320.00	\$1125.00	\$1567.00	\$1335.00	N/A	All communication and option boards are field installable. Please select from core product.
75	6KGPHLO751RDXXX	\$16750.00	\$210.00	\$1845.00	\$1530.00	\$1310.00	\$2213.00	\$1885.00	N/A	
100	6KGPHLO1001RDXXX	\$19900.00	\$210.00	\$1845.00	\$1620.00	\$1380.00	\$2399.00	\$2040.00	N/A	
125	6KGPHLO1251RDXXX	\$25340.00	\$210.00	\$1845.00	\$1691.00	\$1440.00	\$2511.00	\$2135.00	N/A	
150	6KGPHLO1501RDXXX	\$28910.00	\$705.00	\$2575.00	\$1850.00	\$1575.00	\$2570.00	\$2185.00	\$600.00	
200	6KGPHLO2001RDXXX	\$34850.00	\$705.00	\$2575.00	\$1954.00	\$1665.00	\$2761.00	\$2350.00	\$600.00	
250	6KGPHLO2501RDXXX	\$41155.00	\$705.00	\$4191.00	\$1954.00	\$1665.00	\$3104.00	\$2640.00	\$600.00	
300	6KGPHLO3001RDXXX	\$45160.00	\$705.00	\$5867.00	\$2188.00	\$1860.00	\$3280.00	\$2800.00	\$600.00	
350	6KGPHLO3501RDXXX	\$57000.00	Std	\$6845.00	\$3000.00	\$2550.00	\$3560.17	\$3026.00	\$600.00	
450	6KGPHLO4501RDXXX	\$70000.00	Std	\$8800.00	\$3800.00	\$3230.00	\$4509.55	\$3833.00	\$600.00	
500	6KGPHLO5001RDXXX	\$80000.00	Std	\$9780.00	\$4200.00	\$3570.00	\$4984.24	\$4237.00	\$600.00	
550	6KGPHLO5501RDXXX	\$89000.00	Std	\$10760.00	\$4600.00	\$3910.00	\$5458.93	\$4640.00	\$600.00	

¹Drive comes standard with 3% line impedance via DC Link Reactor.



AF-650 GP Enclosed Drive Panels

Enclosed Disconnect Drive Non-Bypass Pricing

575 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	List Price GO-5GPP	List Price Adders, GO-5GPP							Communications & Option Boards
			Conformal Coating	Circuit Breaker	5% AC Line Impedance ¹	4.5% AC Line Impedance ¹	3% Load Reactor	1% Load Reactor	Door Mounted Keypad	
1	6KGPNL0011RDXXX	\$3130.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	All communication and option boards are field installable. Please select from core product.
2	6KGPNL0021RDXXX	\$3475.00	\$210.00	\$636.00	\$530.00	\$455.00	\$570.00	\$485.00	N/A	
3	6KGPNL0031RDXXX	\$3825.00	\$210.00	\$636.00	\$553.00	\$470.00	\$580.00	\$495.00	N/A	
5	6KGPNL0051RDXXX	\$4160.00	\$210.00	\$636.00	\$620.00	\$530.00	\$603.00	\$515.00	N/A	
7.5	6KGPNL0071RDXXX	\$4740.00	\$210.00	\$636.00	\$778.00	\$665.00	\$610.00	\$520.00	N/A	
10	6KGPNL0101RDXXX	\$5350.00	\$210.00	\$636.00	\$808.00	\$690.00	\$813.00	\$700.00	N/A	
15	6KGPNL0151RDXXX	\$6090.00	\$210.00	\$636.00	\$1069.00	\$910.00	\$880.00	\$750.00	N/A	
20	6KGPNL0201RDXXX	\$6855.00	\$210.00	\$636.00	\$1069.00	\$910.00	\$880.00	\$750.00	N/A	
25	6KGPNL0251RDXXX	\$8240.00	\$210.00	\$636.00	\$1214.00	\$1035.00	\$917.00	\$780.00	N/A	
30	6KGPNL0301RDXXX	\$11135.00	\$210.00	\$755.00	\$1214.00	\$1035.00	\$945.00	\$810.00	N/A	
40	6KGPNL0401RDXXX	\$12440.00	\$210.00	\$766.00	\$1266.00	\$1080.00	\$1333.00	\$1135.00	N/A	
50	6KGPNL0501RDXXX	\$14200.00	\$210.00	\$766.00	\$1266.00	\$1080.00	\$1333.00	\$1135.00	N/A	
60	6KGPNL0601RDXXX	\$16410.00	\$210.00	\$1590.00	\$1320.00	\$1125.00	\$1567.00	\$1335.00	N/A	
75	6KGPNL0751RDXXX	\$21865.00	\$210.00	\$1845.00	\$1530.00	\$1310.00	\$2213.00	\$1885.00	N/A	
100	6KGPNL1001RDXXX	\$26020.00	\$210.00	\$1845.00	\$1620.00	\$1380.00	\$2399.00	\$2040.00	N/A	
125	6KGPNL1251RDXXX	\$34380.00	Std	\$1845.00	\$1691.00	\$1440.00	\$2511.00	\$2135.00	N/A	
150	6KGPNL1501RDXXX	\$39970.00	Std	\$2575.00	\$1850.00	\$1575.00	\$2570.00	\$2185.00	\$600.00	
200	6KGPNL2001RDXXX	\$47985.00	Std	\$2575.00	\$1954.00	\$1665.00	\$2761.00	\$2350.00	\$600.00	
250	6KGPNL2501RDXXX	\$56500.00	Std	\$4191.00	\$1954.00	\$1665.00	\$3104.00	\$2640.00	\$600.00	
300	6KGPNL3001RDXXX	\$61910.00	Std	\$5867.00	\$2188.00	\$1860.00	\$3280.00	\$2800.00	\$600.00	
350	6KGPNL3501RDXXX	\$76950.00	Std	\$6845.00	\$3000.00	\$2550.00	\$3560.17	\$3026.00	\$600.00	
400	6KGPNL4001RDXXX	\$94500.00	Std	\$8800.00	\$3800.00	\$3230.00	\$4509.55	\$3833.00	\$600.00	
500	6KGPNL5001RDXXX	\$120150.00	Std	\$10760.00	\$4600.00	\$3910.00	\$5458.93	\$4640.00	\$600.00	
600	6KGPNL6001RDXXX	\$132000.00	Std	\$11725.00	\$5000.00	\$4250.00	\$5935.00	\$5050.00	\$600.00	

¹Drive comes standard with 3% line impedance via DC Link Reactor.



AF-650 GP Enclosed Drive Panels

Enclosed Non-Bypass Drive Pricing

As standard, all Enclosed Non-Bypass Drives include a fusible disconnect switch and fuses, a door- mounted keypad, an HOA operator, an E-Stop button (for UL508A compliance), power on and enable lights, a customer terminal board for control connection, an A2 rated EMI filter, Modbus RTU communication protocols, and the equivalent of 3% line reactor.

208 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								Motor Space Heater & Extra VA CPT ⁴
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	
1	6KGPCD0011RDXXX	4.6	\$2401.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00	\$125.00	\$2100.00	\$400.00
2	6KGPCD0021RDXXX	7.5	\$2547.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00	\$140.00	\$2175.00	\$400.00
3	6KGPCD0031RDXXX	10.6	\$3038.00	\$570.00	\$1000.00	\$210.00	\$593.00	\$610.00	\$636.00	\$165.00	\$2450.00	\$400.00
5	6KGPCD0051RDXXX	16.7	\$3678.00	\$590.00	\$1500.00	\$210.00	\$684.00	\$813.00	\$636.00	\$200.00	\$2500.00	\$400.00
7.5	6KGPCD0071RDXXX	24.2	\$4181.00	\$590.00	\$1500.00	\$210.00	\$717.00	\$880.00	\$636.00	\$230.00	\$2875.00	\$400.00
10	6KGPCD0101RDXXX	30.8	\$5024.00	\$590.00	\$1750.00	\$210.00	\$905.00	\$917.00	\$636.00	\$260.00	\$3075.00	\$400.00
15	6KGPCD0151RDXXX	46.2	\$5905.00	\$740.00	\$1750.00	\$210.00	\$999.00	\$945.00	\$755.00	\$335.00	\$3875.00	\$400.00
20	6KGPCD0201RDXXX	59.4	\$7329.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00	\$410.00	\$4800.00	\$400.00
25	6KGPCD0251RDXXX	74.8	\$10592.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00	\$460.00	\$5575.00	\$400.00
30	6KGPCD0301RDXXX	88	\$12857.00	\$1180.00	\$2500.00	\$210.00	\$1243.00	\$1567.00	\$1590.00	\$580.00	\$6700.00	\$400.00
40	6KGPCD0401RDXXX	115	\$14571.00	\$1370.00	\$3500.00	\$210.00	\$1418.00	\$2213.00	\$1845.00	\$720.00	\$9043.00	\$400.00
50	6KGPCD0501RDXXX	143	\$18329.00	\$1670.00	\$3500.00	\$210.00	\$1506.00	\$2399.00	\$1845.00	\$875.00	\$9981.00	\$400.00

460 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								Motor Space Heater & Extra VA CPT ⁴
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	
1	6KGPHD0011RDXXX	2.1	\$2501.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$125.00	\$2100.00	\$400.00
2	6KGPHD0021RDXXX	3.4	\$2785.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$150.00	\$2100.00	\$400.00
3	6KGPHD0031RDXXX	4.8	\$3056.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00	\$175.00	\$2100.00	\$400.00
5	6KGPHD0051RDXXX	8.2	\$3314.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00	\$200.00	\$2175.00	\$400.00
7.5	6KGPHD0071RDXXX	11	\$3762.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00	\$230.00	\$2450.00	\$400.00
10	6KGPHD0101RDXXX	14.5	\$4231.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00	\$260.00	\$2500.00	\$400.00
15	6KGPHD0151RDXXX	21	\$4839.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$335.00	\$2875.00	\$400.00
20	6KGPHD0201RDXXX	27	\$5427.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$410.00	\$3075.00	\$400.00
25	6KGPHD0251RDXXX	34	\$6491.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00	\$460.00	\$3600.00	\$400.00
30	6KGPHD0301RDXXX	40	\$8719.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00	\$510.00	\$3875.00	\$400.00
40	6KGPHD0401RDXXX	52	\$9721.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$630.00	\$4800.00	\$400.00
50	6KGPHD0501RDXXX	65	\$11152.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$770.00	\$5575.00	\$400.00
60	6KGPHD0601RDXXX	80	\$12850.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00	\$910.00	\$6300.00	\$400.00
75	6KGPHD0751RDXXX	105	\$17048.00	\$1370.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00	\$1030.00	\$6700.00	\$400.00
100	6KGPHD1001RDXXX	130	\$20395.00	\$1630.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00	\$1170.00	\$9043.00	\$400.00
125	6KGPHD1251RDXXX	160	\$25836.00	\$2020.00	\$3500.00	\$705.00	\$1691.00	\$2511.00	\$1845.00	\$1325.00	N/A	\$400.00
150	6KGPHD1501RDXXX	190	\$29607.00	\$2370.00	\$4000.00	\$705.00	\$1850.00	\$2570.00	\$2575.00	\$1625.00	N/A	\$400.00
200	6KGPHD2001RDXXX	240	\$35542.00	\$2840.00	N/A	\$705.00	\$1954.00	\$2761.00	\$2575.00	\$1900.00	N/A	\$400.00
250	6KGPHD2501RDXXX	302	\$41855.00	\$3500.00	N/A	\$705.00	\$1954.00	\$3104.00	\$4191.00	\$2275.00	N/A	\$400.00
300	6KGPHD3001RDXXX	361	\$45856.00	\$4125.00	N/A	\$705.00	\$2188.00	\$3082.00	\$5867.00	\$2955.00	N/A	\$400.00

575 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								Motor Space Heater & Extra VA CPT ⁴
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	
1	6KGPN0011RDXXX	1.7	\$3280.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$125.00	N/A	\$400.00
2	6KGPN0021RDXXX	2.7	\$3623.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$150.00	N/A	\$400.00
3	6KGPN0031RDXXX	3.9	\$3972.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00	\$175.00	N/A	\$400.00
5	6KGPN0051RDXXX	6.1	\$4307.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00	\$200.00	N/A	\$400.00
7.5	6KGPN0071RDXXX	9	\$4890.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00	\$230.00	N/A	\$400.00
10	6KGPN0101RDXXX	11	\$5500.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00	\$260.00	N/A	\$400.00
15	6KGPN0151RDXXX	18	\$6291.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$335.00	N/A	\$400.00
20	6KGPN0201RDXXX	22	\$7055.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$410.00	N/A	\$400.00
25	6KGPN0251RDXXX	27	\$8438.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00	\$460.00	N/A	\$400.00
30	6KGPN0301RDXXX	34	\$11334.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00	\$510.00	N/A	\$400.00
40	6KGPN0401RDXXX	41	\$12639.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$630.00	N/A	\$400.00
50	6KGPN0501RDXXX	52	\$14497.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$770.00	N/A	\$400.00
60	6KGPN0601RDXXX	62	\$16704.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00	\$910.00	N/A	\$400.00
75	6KGPN0751RDXXX	83	\$22162.00	\$1780.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00	\$1030.00	N/A	\$400.00
100	6KGPN1001RDXXX	100	\$26513.00	\$2115.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00	\$1170.00	N/A	\$400.00

¹Drive comes standard with 3% line impedance via DC Link Reactor.

²Includes DB Chopper rated for 10% duty cycle. DB resistors must be ordered separately.

³Matrix filter is only available in NEMA 1 enclosures and is not available with Line or Load reactors.

⁴This option provides a CPT with a minimal 150vA additional power.



AF-650 GP Enclosed Drive Panels

Enclosed Non-Bypass Drive with Output Contactor Pricing

As standard, all Enclosed Non-Bypass Drives with an Output Contactor include a fusible disconnect switch and fuses, a door-mounted keypad, an HOA operator, an E-Stop button (for UL508A compliance), power on and enable lights, a customer terminal board for control connection, an A2 rated EMI filter, Modbus RTU communication protocols, and the equivalent of 3% line reactor, and a drive output contactor.

208 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater & Extra VA CPT ⁴
1	6KGPC10011RDXXX	4.6	\$2419.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00	\$125.00	\$2100.00	\$400.00
2	6KGPC10021RDXXX	7.5	\$2566.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00	\$140.00	\$2175.00	\$400.00
3	6KGPC10031RDXXX	10.6	\$3061.00	\$570.00	\$1000.00	\$210.00	\$593.00	\$610.00	\$636.00	\$165.00	\$2450.00	\$400.00
5	6KGPC10051RDXXX	16.7	\$3705.00	\$590.00	\$1500.00	\$210.00	\$684.00	\$813.00	\$636.00	\$200.00	\$2500.00	\$400.00
7.5	6KGPC10071RDXXX	24.2	\$4213.00	\$590.00	\$1500.00	\$210.00	\$717.00	\$880.00	\$636.00	\$230.00	\$2875.00	\$400.00
10	6KGPC10101RDXXX	30.8	\$5062.00	\$590.00	\$1750.00	\$210.00	\$905.00	\$917.00	\$636.00	\$260.00	\$3075.00	\$400.00
15	6KGPC10151RDXXX	46.2	\$5950.00	\$740.00	\$1750.00	\$210.00	\$999.00	\$945.00	\$755.00	\$335.00	\$3875.00	\$400.00
20	6KGPC10201RDXXX	59.4	\$7384.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00	\$410.00	\$4800.00	\$400.00
25	6KGPC10251RDXXX	74.8	\$10671.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00	\$460.00	\$5575.00	\$400.00
30	6KGPC10301RDXXX	88	\$12953.00	\$1180.00	\$2500.00	\$210.00	\$1243.00	\$1567.00	\$1590.00	\$580.00	\$6700.00	\$400.00
40	6KGPC10401RDXXX	115	\$14680.00	\$1370.00	\$3500.00	\$210.00	\$1418.00	\$2213.00	\$1845.00	\$720.00	\$9043.00	\$400.00
50	6KGPC10501RDXXX	143	\$18466.00	\$1670.00	\$3500.00	\$210.00	\$1506.00	\$2399.00	\$1845.00	\$875.00	\$9981.00	\$400.00

460 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater & Extra VA CPT ⁴
1	6KGPH10011RDXXX	2.1	\$2520.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$125.00	\$2100.00	\$400.00
2	6KGPH10021RDXXX	3.4	\$2806.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$150.00	\$2100.00	\$400.00
3	6KGPH10031RDXXX	4.8	\$3078.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00	\$175.00	\$2100.00	\$400.00
5	6KGPH10051RDXXX	8.2	\$3339.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00	\$200.00	\$2175.00	\$400.00
7.5	6KGPH10071RDXXX	11	\$3790.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00	\$230.00	\$2450.00	\$400.00
10	6KGPH10101RDXXX	14.5	\$4263.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00	\$260.00	\$2500.00	\$400.00
15	6KGPH10151RDXXX	21	\$4875.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$335.00	\$2875.00	\$400.00
20	6KGPH10201RDXXX	27	\$5468.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$410.00	\$3075.00	\$400.00
25	6KGPH10251RDXXX	34	\$6539.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00	\$460.00	\$3600.00	\$400.00
30	6KGPH10301RDXXX	40	\$8785.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00	\$510.00	\$3875.00	\$400.00
40	6KGPH10401RDXXX	52	\$9794.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$630.00	\$4800.00	\$400.00
50	6KGPH10501RDXXX	65	\$11235.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$770.00	\$5575.00	\$400.00
60	6KGPH10601RDXXX	80	\$12946.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00	\$910.00	\$6300.00	\$400.00
75	6KGPH10751RDXXX	105	\$17175.00	\$1370.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00	\$1030.00	\$6700.00	\$400.00
100	6KGPH11001RDXXX	130	\$20548.00	\$1630.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00	\$1170.00	\$9043.00	\$400.00
125	6KGPH11251RDXXX	160	\$26030.00	\$2020.00	\$3500.00	\$705.00	\$1691.00	\$2511.00	\$1845.00	\$1325.00	N/A	\$400.00
150	6KGPH11501RDXXX	190	\$29829.00	\$2370.00	\$4000.00	\$705.00	\$1850.00	\$2570.00	\$2575.00	\$1625.00	N/A	\$400.00
200	6KGPH12001RDXXX	240	\$35808.00	\$2840.00	N/A	\$705.00	\$1954.00	\$2761.00	\$2575.00	\$1900.00	N/A	\$400.00
250	6KGPH12501RDXXX	302	\$42169.00	\$3500.00	N/A	\$705.00	\$1954.00	\$3104.00	\$4191.00	\$2275.00	N/A	\$400.00
300	6KGPH13001RDXXX	361	\$46200.00	\$4125.00	N/A	\$705.00	\$2188.00	\$3082.00	\$5867.00	\$2955.00	N/A	\$400.00

575 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater & Extra VA CPT ⁴
1	6KGPN10011RDXXX	1.7	\$3300.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$125.00	N/A	\$400.00
2	6KGPN10021RDXXX	2.7	\$3650.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$150.00	N/A	\$400.00
3	6KGPN10031RDXXX	3.9	\$4002.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00	\$175.00	N/A	\$400.00
5	6KGPN10051RDXXX	6.1	\$4339.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00	\$200.00	N/A	\$400.00
7.5	6KGPN10071RDXXX	9	\$4926.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00	\$230.00	N/A	\$400.00
10	6KGPN10101RDXXX	11	\$5542.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00	\$260.00	N/A	\$400.00
15	6KGPN10151RDXXX	18	\$6338.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$335.00	N/A	\$400.00
20	6KGPN10201RDXXX	22	\$7108.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$410.00	N/A	\$400.00
25	6KGPN10251RDXXX	27	\$8501.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00	\$460.00	N/A	\$400.00
30	6KGPN10301RDXXX	34	\$11419.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00	\$510.00	N/A	\$400.00
40	6KGPN10401RDXXX	41	\$12733.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$630.00	N/A	\$400.00
50	6KGPN10501RDXXX	52	\$14606.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$770.00	N/A	\$400.00
60	6KGPN10601RDXXX	62	\$16829.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00	\$910.00	N/A	\$400.00
75	6KGPN10751RDXXX	83	\$22328.00	\$1780.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00	\$1030.00	N/A	\$400.00
100	6KGPN11001RDXXX	100	\$26712.00	\$2115.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00	\$1170.00	N/A	\$400.00

¹Drive comes standard with 3% line impedance via DC Link Reactor.
²Includes DB Chopper rated for 10% duty cycle. DB resistors must be ordered separately.
³Matrix filter is only available in NEMA 1 enclosures and is not available with Line or Load reactors.
⁴This option provides a CPT with a minimal 150vA additional power.



AF-650 GP Enclosed Drive Panels

Enclosed 2 Contactor Bypass Drives Pricing

As standard, all Enclosed 2 Contactor Bypass Drives include a fusible disconnect switch and fuses, a door-mounted keypad, an HOA operator, an E-Stop button (for UL508A compliance), a Drive/Off/Bypass switch, power on, enable, bypass and overload lights, a customer terminal board for control connection, an A2 rated EMI filter, Modbus RTU communication protocols, the equivalent of 3% line reactor, a drive output contactor interlocked with a FVNR bypass contactor, and Class 20/30 overloads.

208 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater & Extra VA CPT ⁴
1	6KGPC20011RDXXX	4.6	\$2473.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00	\$125.00	\$2100.00	\$400.00
2	6KGPC20021RDXXX	7.5	\$2751.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00	\$140.00	\$2175.00	\$400.00
3	6KGPC20031RDXXX	10.6	\$3258.00	\$570.00	\$1000.00	\$210.00	\$593.00	\$610.00	\$636.00	\$165.00	\$2450.00	\$400.00
5	6KGPC20051RDXXX	16.7	\$3974.00	\$590.00	\$1500.00	\$210.00	\$684.00	\$813.00	\$636.00	\$200.00	\$2500.00	\$400.00
7.5	6KGPC20071RDXXX	24.2	\$4755.00	\$590.00	\$1500.00	\$210.00	\$717.00	\$880.00	\$636.00	\$230.00	\$2875.00	\$400.00
10	6KGPC20101RDXXX	30.8	\$5603.00	\$590.00	\$1750.00	\$210.00	\$905.00	\$917.00	\$636.00	\$260.00	\$3075.00	\$400.00
15	6KGPC20151RDXXX	46.2	\$6696.00	\$740.00	\$1750.00	\$210.00	\$999.00	\$945.00	\$755.00	\$335.00	\$3875.00	\$400.00
20	6KGPC20201RDXXX	59.4	\$8310.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00	\$410.00	\$4800.00	\$400.00
25	6KGPC20251RDXXX	74.8	\$12486.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00	\$460.00	\$5575.00	\$400.00
30	6KGPC20301RDXXX	88	\$15638.00	\$1180.00	\$2500.00	\$210.00	\$1243.00	\$1567.00	\$1590.00	\$580.00	\$6700.00	\$400.00
40	6KGPC20402RDXXX	115	\$18455.00	\$1370.00	\$3500.00	\$210.00	\$1418.00	\$2213.00	\$1845.00	\$720.00	\$9043.00	\$400.00
50	6KGPC20502RDXXX	143	\$22570.00	\$1670.00	\$3500.00	\$210.00	\$1506.00	\$2399.00	\$1845.00	\$875.00	\$9981.00	\$400.00

460 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater & Extra VA CPT ⁴
1	6KGPH20011RDXXX	2.1	\$2565.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$125.00	\$2100.00	\$400.00
2	6KGPH20021RDXXX	3.4	\$2912.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$150.00	\$2100.00	\$400.00
3	6KGPH20031RDXXX	4.8	\$3174.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00	\$175.00	\$2100.00	\$400.00
5	6KGPH20051RDXXX	8.2	\$3472.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00	\$200.00	\$2175.00	\$400.00
7.5	6KGPH20071RDXXX	11	\$3977.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00	\$230.00	\$2450.00	\$400.00
10	6KGPH20101RDXXX	14.5	\$4492.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00	\$260.00	\$2500.00	\$400.00
15	6KGPH20151RDXXX	21	\$5065.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$335.00	\$2875.00	\$400.00
20	6KGPH20201RDXXX	27	\$5857.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$410.00	\$3075.00	\$400.00
25	6KGPH20251RDXXX	34	\$7048.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00	\$460.00	\$3600.00	\$400.00
30	6KGPH20301RDXXX	40	\$9248.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00	\$510.00	\$3875.00	\$400.00
40	6KGPH20401RDXXX	52	\$10250.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$630.00	\$4800.00	\$400.00
50	6KGPH20501RDXXX	65	\$11605.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$770.00	\$5575.00	\$400.00
60	6KGPH20601RDXXX	80	\$13810.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00	\$910.00	\$6300.00	\$400.00
75	6KGPH20751RDXXX	105	\$18636.00	\$1370.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00	\$1030.00	\$6700.00	\$400.00
100	6KGPH21002RDXXX	130	\$22294.00	\$1630.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00	\$1170.00	\$9043.00	\$400.00
125	6KGPH21252RDXXX	160	\$27632.00	\$2020.00	\$3500.00	\$705.00	\$1691.00	\$2511.00	\$1845.00	\$1325.00	N/A	\$400.00
150	6KGPH21502RDXXX	190	\$32286.00	\$2370.00	\$4000.00	\$705.00	\$1850.00	\$2570.00	\$2575.00	\$1625.00	N/A	\$400.00
200	6KGPH22002RDXXX	240	\$38940.00	\$2840.00	N/A	\$705.00	\$1954.00	\$2761.00	\$2575.00	\$1900.00	N/A	\$400.00
250	6KGPH22502RDXXX	302	\$47810.00	\$3500.00	N/A	\$705.00	\$1954.00	\$3104.00	\$4191.00	\$2275.00	N/A	\$400.00
300	6KGPH23001RDXXX	361	\$49019.00	\$4125.00	N/A	\$705.00	\$2188.00	\$3082.00	\$5867.00	\$2955.00	N/A	\$400.00

575 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater & Extra VA CPT ⁴
1	6KGPN20011RDXXX	1.7	\$3440.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$125.00	N/A	\$400.00
2	6KGPN20021RDXXX	2.7	\$3785.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$150.00	N/A	\$400.00
3	6KGPN20031RDXXX	3.9	\$4126.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00	\$175.00	N/A	\$400.00
5	6KGPN20051RDXXX	6.1	\$4514.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00	\$200.00	N/A	\$400.00
7.5	6KGPN20071RDXXX	9	\$5169.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00	\$230.00	N/A	\$400.00
10	6KGPN20101RDXXX	11	\$6173.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00	\$260.00	N/A	\$400.00
15	6KGPN20151RDXXX	18	\$6738.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$335.00	N/A	\$400.00
20	6KGPN20201RDXXX	22	\$7613.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$410.00	N/A	\$400.00
25	6KGPN20251RDXXX	27	\$9163.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00	\$460.00	N/A	\$400.00
30	6KGPN20301RDXXX	34	\$12022.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00	\$510.00	N/A	\$400.00
40	6KGPN20401RDXXX	41	\$13325.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$630.00	N/A	\$400.00
50	6KGPN20501RDXXX	52	\$15086.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$770.00	N/A	\$400.00
60	6KGPN20601RDXXX	62	\$17954.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00	\$910.00	N/A	\$400.00
75	6KGPN20751RDXXX	83	\$24226.00	\$1780.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00	\$1030.00	N/A	\$400.00
100	6KGPN21002RDXXX	100	\$28981.00	\$2115.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00	\$1170.00	N/A	\$400.00

¹Drive comes standard with 3% line impedance via DC Link Reactor.

²Includes DB Chopper rated for 10% duty cycle. DB resistors must be ordered separately.

³Matrix filter is only available in NEMA 1 enclosures and is not available with Line or Load reactors.

⁴This option provides a CPT with a minimal 150vA additional power.



AF-650 GP Enclosed Drive Panels

Enclosed 3 Contactor Bypass Drives Pricing

As standard, all Enclosed 3 Contactor Bypass Drives include a fusible disconnect switch and fuses, a door-mounted keypad, an HOA operator, an E-Stop button (for UL508A compliance), a Drive/Off/Bypass switch, a Test/Isolate/Normal switch power on, enable, bypass and overload lights, a customer terminal board for control connection, an A2 rated EMI filter, Modbus RTU communication protocols, the equivalent of 3% line reactor, a drive output contactor interlocked with a FVNR bypass contactor, a drive line isolation contactor, and Class 20/30 overloads.

208 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater & Extra VA CPT ⁴
1	6KGPC30011RDXXX	4.6	\$2697.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00	\$125.00	\$2100.00	\$400.00
2	6KGPC30021RDXXX	7.5	\$3061.00	\$570.00	\$1000.00	\$210.00	\$469.00	\$603.00	\$636.00	\$140.00	\$2175.00	\$400.00
3	6KGPC30031RDXXX	10.6	\$3603.00	\$570.00	\$1000.00	\$210.00	\$593.00	\$610.00	\$636.00	\$165.00	\$2450.00	\$400.00
5	6KGPC30051RDXXX	16.7	\$4315.00	\$590.00	\$1500.00	\$210.00	\$684.00	\$813.00	\$636.00	\$200.00	\$2500.00	\$400.00
7.5	6KGPC30071RDXXX	24.2	\$5277.00	\$590.00	\$1500.00	\$210.00	\$717.00	\$880.00	\$636.00	\$230.00	\$2875.00	\$400.00
10	6KGPC30101RDXXX	30.8	\$6149.00	\$590.00	\$1750.00	\$210.00	\$905.00	\$917.00	\$636.00	\$260.00	\$3075.00	\$400.00
15	6KGPC30151RDXXX	46.2	\$7259.00	\$740.00	\$1750.00	\$210.00	\$999.00	\$945.00	\$755.00	\$335.00	\$3875.00	\$400.00
20	6KGPC30201RDXXX	59.4	\$8942.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00	\$410.00	\$4800.00	\$400.00
25	6KGPC30251RDXXX	74.8	\$13584.00	\$740.00	\$2000.00	\$210.00	\$1170.00	\$1333.00	\$766.00	\$460.00	\$5575.00	\$400.00
30	6KGPC30301RDXXX	88	\$16989.00	\$1180.00	\$2500.00	\$210.00	\$1243.00	\$1567.00	\$1590.00	\$580.00	\$6700.00	\$400.00
40	6KGPC30402RDXXX	115	\$19709.00	\$1370.00	\$3500.00	\$210.00	\$1418.00	\$2213.00	\$1845.00	\$720.00	\$9043.00	\$400.00
50	6KGPC30502RDXXX	143	\$23933.00	\$1670.00	\$3500.00	\$210.00	\$1506.00	\$2399.00	\$1845.00	\$875.00	\$9981.00	\$400.00

460 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater & Extra VA CPT ⁴
1	6KGP30011RDXXX	2.1	\$2818.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$125.00	\$2100.00	\$400.00
2	6KGP30021RDXXX	3.4	\$3102.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$150.00	\$2100.00	\$400.00
3	6KGP30031RDXXX	4.8	\$3398.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00	\$175.00	\$2100.00	\$400.00
5	6KGP30051RDXXX	8.2	\$3740.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00	\$200.00	\$2175.00	\$400.00
7.5	6KGP30071RDXXX	11	\$4210.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00	\$230.00	\$2450.00	\$400.00
10	6KGP30101RDXXX	14.5	\$4748.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00	\$260.00	\$2500.00	\$400.00
15	6KGP30151RDXXX	21	\$5367.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$335.00	\$2875.00	\$400.00
20	6KGP30201RDXXX	27	\$6202.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$410.00	\$3075.00	\$400.00
25	6KGP30251RDXXX	34	\$7445.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00	\$460.00	\$3600.00	\$400.00
30	6KGP30301RDXXX	40	\$9778.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00	\$510.00	\$3875.00	\$400.00
40	6KGP30401RDXXX	52	\$10848.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$630.00	\$4800.00	\$400.00
50	6KGP30501RDXXX	65	\$12185.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$770.00	\$5575.00	\$400.00
60	6KGP30601RDXXX	80	\$14615.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00	\$910.00	\$6300.00	\$400.00
75	6KGP30751RDXXX	105	\$19671.00	\$1370.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00	\$1030.00	\$6700.00	\$400.00
100	6KGP31002RDXXX	130	\$23385.00	\$1630.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00	\$1170.00	\$9043.00	\$400.00
125	6KGP31252RDXXX	160	\$29038.00	\$2020.00	\$3500.00	\$705.00	\$1691.00	\$2511.00	\$1845.00	\$1325.00	N/A	\$400.00
150	6KGP31502RDXXX	190	\$34085.00	\$2370.00	\$4000.00	\$705.00	\$1850.00	\$2570.00	\$2575.00	\$1625.00	N/A	\$400.00
200	6KGP32002RDXXX	240	\$40855.00	\$2840.00	N/A	\$705.00	\$1954.00	\$2761.00	\$2575.00	\$1900.00	N/A	\$400.00
250	6KGP32502RDXXX	302	\$50354.00	\$3500.00	N/A	\$705.00	\$1954.00	\$3104.00	\$4191.00	\$2275.00	N/A	\$400.00
300	6KGP33001RDXXX	361	\$50600.00	\$4125.00	N/A	\$705.00	\$2188.00	\$3082.00	\$5867.00	\$2955.00	N/A	\$400.00

575 Vac, 3-Phase, 60Hz Input Power

Constant Torque HP Rating	AF-650 GP Panel Product No.	Max. Cont. Current	List Price GO-5GPP	List Price Adders, GO-5GPP								
				NEMA 12 Enclosure	NEMA 3R Enclosure	Conformal Coating	5% AC Line Impedance ¹	3% Load Reactor	Circuit Breaker	Dynamic Brake ²	Matrix Harmonic Filter ³	Motor Space Heater ⁴ & Extra VA CPT ⁴
1	6KGPN30011RDXXX	1.7	\$3663.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$125.00	N/A	\$400.00
2	6KGPN30021RDXX	2.7	\$4032.00	\$570.00	\$1000.00	\$210.00	\$530.00	\$570.00	\$636.00	\$150.00	N/A	\$400.00
3	6KGPN30031RDXXX	3.9	\$4418.00	\$570.00	\$1000.00	\$210.00	\$553.00	\$580.00	\$636.00	\$175.00	N/A	\$400.00
5	6KGPN30051RDXXX	6.1	\$4862.00	\$570.00	\$1250.00	\$210.00	\$620.00	\$603.00	\$636.00	\$200.00	N/A	\$400.00
7.5	6KGPN30071RDXX	9	\$5473.00	\$570.00	\$1250.00	\$210.00	\$778.00	\$610.00	\$636.00	\$230.00	N/A	\$400.00
10	6KGPN30101RDXXX	11	\$6584.00	\$570.00	\$1500.00	\$210.00	\$808.00	\$813.00	\$636.00	\$260.00	N/A	\$400.00
15	6KGPN30151RDXXX	18	\$6977.00	\$590.00	\$1500.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$335.00	N/A	\$400.00
20	6KGPN30201RDXX	22	\$8063.00	\$590.00	\$1750.00	\$210.00	\$1069.00	\$880.00	\$636.00	\$410.00	N/A	\$400.00
25	6KGPN30251RDXX	27	\$9679.00	\$590.00	\$1750.00	\$210.00	\$1214.00	\$917.00	\$636.00	\$460.00	N/A	\$400.00
30	6KGPN30301RDXXX	34	\$12712.00	\$740.00	\$1750.00	\$210.00	\$1214.00	\$945.00	\$755.00	\$510.00	N/A	\$400.00
40	6KGPN30401RDXX	41	\$14102.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$630.00	N/A	\$400.00
50	6KGPN30501RDXX	52	\$15841.00	\$740.00	\$2000.00	\$210.00	\$1266.00	\$1333.00	\$766.00	\$770.00	N/A	\$400.00
60	6KGPN30601RDXX	62	\$19000.00	\$890.00	\$2500.00	\$210.00	\$1320.00	\$1567.00	\$1590.00	\$910.00	N/A	\$400.00
75	6KGPN30751RDXX	83	\$25572.00	\$1780.00	\$3500.00	\$210.00	\$1530.00	\$2213.00	\$1845.00	\$1030.00	N/A	\$400.00
100	6KGPN31002RDXX	100	\$30401.00	\$2115.00	\$3500.00	\$210.00	\$1620.00	\$2399.00	\$1845.00	\$1170.00	N/A	\$400.00

¹Drive comes standard with 3% line impedance via DC Link Reactor.
²Includes DB Chopper rated for 10% duty cycle. DB resistors must be ordered separately.
³Matrix filter is only available in NEMA 1 enclosures and is not available with Line or Load reactors.
⁴This option provides a CPT with a minimal 150VA additional power.



AF-650 GP Enclosed Drive Panels

AF-650 GP Enclosed Drives Options Pricing

Operator Devices

Option Description	Option Code	List Adder
None (includes HOA)	X	\$0.00
Elapsed Time Meter (ETM)	E	\$275.00
Forward/Reverse Selector ^{1,2}	F	\$132.00
Drive Run & Fault Pilot Lights	L	\$250.00
Speed Potentiometer	P	\$115.00
Start/Stop Operators ²	S	\$240.00

Control Options

Option Description	Option Code	List Adder
None	X	\$0.00
Encoder Module ³	E	\$400.00
Additional Input and Output ^{3,4}	M	\$600.00
Loss of Reference Control, Run @ Preset Speed ⁵	R	\$50.00
Resolver Module ³	S	\$400.00
Relay Output Module ³	Y	\$475.00

Communication Options

Option Description	Option Code	List Adder
Standard (Modbus RTU)	X	\$0.00
DeviceNet	D	\$600.00
Ethernet IP ⁶	E	\$700.00
Profibus DP	P	\$725.00
ProfiNet RT	N	Consult Factory
Modbus TCP ⁶	M	\$700.00

¹Forward/Reverse option is only available on Non-Bypass units.

²Forward/Reverse and Start/Stop options are not available together.

³Only one Control Option Card can be installed at a time.

⁴Via General Purpose I/O - OPCGPIO (24V DIO, 0-10V Input, second 4-20mA AO).

⁵Applies to 4-20mA Analog Speed Reference only.

⁶The Ethernet IP and Modbus TCP communication cards use two option slots.

When either is installed, no other option card can be supplied.

Model Number and Pricing Example

Description:

460Vac, 25HP HVAC 3 Contactor Bypass Drive with 5% AC Line Reactor, NEMA 3 Enclosure, Extra VA and Space Heater, Start/Stop Operators, an Encoder module and Modbus RTU communications.

Model Number: 6KGP30256EDS1X

460Vac, 25 HP 3 contactor bypass drive base list price:	\$7445.00
NEMA 3R Enclosure list adder	\$1750.00
5% AC line reactor list adder:	\$1214.00
Extra VA & Space heater:	\$400.00
Start/Stop Operators:	\$240.00
Encoder Module:	\$400.00
Total List Price	\$11449.00



AF-6 Series Drives

Demo Unit

This handy, portable demo unit is now available to show off the **built-in features and built-in simplicity** of the new AF-6 Series Drives to your customers.

It includes an AF-60 LP Micro Drive and an AF-600 FP Fan & Pump Drive. The whole unit plugs into any 120V outlet to demonstrate ease of set-up and operation.

Order yours today and help drive up your sales of the AF-6 Series!

Features

- Demonstration pilot lights
- AF-60 LP Micro Drive
- AF-600 FP Fan & Pump Drive
- Protective assembly
- Power cord
- Easy transportability
- Sturdy case

AF-6 Series Demo Unit

Dimensions	Weight	Lead Time	Product Number	List Price
17.9"H x 22.1"W x 10.4"D	46 lbs	Stock to 15 days	6KAF6DEMO	GO-5AF6 \$3995.00



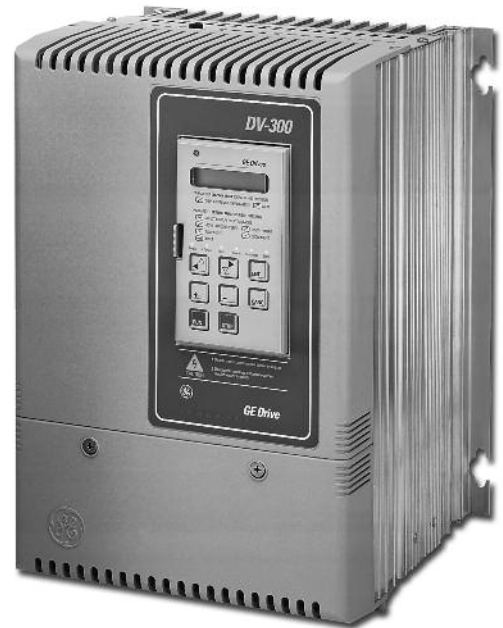
DV-300™ DC Drive

The DV-300 is a 3-phase, six-pulse converter which is available in either non-regenerative or fully regenerative design. The DV-300 drive controller allows for precise regulation of motor speed, current, and field (field weakening and field economy are standard). This performance and chassis packaging allows the DV-300 to be applied easily in a wide array of industries including textiles, paper converting, plastics converting, corrugating, wire drawing, rubber and plastics, metal processing, machine tools, material handling, and more.

To allow for easy start-up, the DV-300 offers two choices: an optional keypad programmer or the standard GE toolbox. The Windows®-based GE toolbox enables the user to set parameters and program converter I/O and self-tune the regulators. Archiving the drive setup allows the user to have preconfigured setups available for similar applications. These are easily maintained and save valuable time.

The DV-300 drive can handle difficult applications and complex operations with the addition of the digital general function (DGF) card. The DGF card is an optional Intel® microprocessor-based board which allows application specific regulators, provides special sequencing operations, and solves other drive control challenges.

A wide range of advanced communication capabilities are available for the DV-300 drive. The drive communicates on a high-speed serial link including the following protocol options: DeviceNet™, Profibus-DP, Interbus-S, and Genius®. These communication options allow the drive, system control, and the data collection system to be easily integrated. Other options for the DV-300 include additional I/O, removable keypad programmer, and keypad door-mount kit.



DV-300

Product Numbering System Diagram

Description	6K	DV3	NNN(N)	QN	X	NN	XN
GE Product Code							
Drive Type							
DV-300							
Rated Current							
017 = 17 A							
035 = 35 A							
2000 = 2000 A							
Number of Quadrants							
2 = 2 quadrants (non-regenerative)							
4 = 4 quadrants (regenerative)							
Voltage Rating							
B = 500/max Vac for Q4							
C = 690/max Vac for Q2							
F = 500/max Vac for Q3							
G = 690/max Vac for Q4							
Rated Field Current							
10 = 10 A							
14 = 14 A							
20 = 20 A							
25 = 25 A							
40 = 40 A							
70 = 70 A							
Product Release							
X = Major Revision Level							
N = Minor Revision Level							



DV-300

Pricing, Dimensions and Weights

Hp		Output DC (Nominal Current)	Model No.	Catalog No.	List Price (GO-5DV)	Height (in)	Width (in)	Depth (in)	Weight (lbs)
230V	460V								
DV-300 Regenerative/Reversing									
5	10	17	6KDV3017Q4F10**	D6140	\$4000.00	14.2	10.4	10.8	18.5
10	20	35	6KDV3035Q4F10**	D6141	\$4200.00	14.2	10.4	10.8	18.5
15	30	56	6KDV3056Q4F10**	D6142	\$4500.00	14.2	10.4	10.8	19.4
25	50	88	6KDV3088Q4F14**	D6143	\$4900.00	14.2	10.4	10.8	27.6
30	60	112	6KDV3112Q4F14**	D6144	\$5100.00	14.2	10.4	10.8	27.6
40	75	148	6KDV3148Q4F14**	D6145	\$5600.00	14.2	10.4	10.8	27.6
60	125	224	6KDV3224Q4F20**	D6146	\$7500.00	15.3	12.2	13.3	54.0
75	150	280	6KDV3280Q4F20**	D6147	\$8200.00	15.3	12.2	13.3	65.0
100	200	336	6KDV3336Q4F20**	D6148	\$10400.00	15.3	12.2	13.3	65.0
125	250	400	6KDV3400Q4F20**	D6149	\$10900.00	15.3	12.2	13.3	65.0
135	275	450	6KDV3450Q4F20**	D6150	\$11900.00	15.3	12.2	14.5	70.5
150	300	560	6KDV3560Q4F25**	D6151	\$17900.00	20.1	20.5	15.8	134.0
250	500	850	6KDV3850Q4F25**	D6152	\$20900.00	20.1	20.5	15.8	143.3
300	800	1300	6KDV31300Q4F40**	*	\$24433.00	See Dimensions Page 105			
350	800	1350	6KDV31350Q4F40**	*	\$25577.00				
400	900	1500	6KDV31500Q4F40**	*	\$27025.00				
500	1000	1800	6KDV31800Q4F40**	*	\$31411.00				
600	1250	2000	6KDV32000Q4F40**	*	\$38780.00				

Hp		Output DC (Nominal Current)	Model No.	Catalog No.	List Price (GO-5DV)	Height (in)	Width (in)	Depth (in)	Weight (lbs)
230V	460V								
DV-300 Non-Regenerative/Non-Reversing									
5	10	17	6KDV3017Q2B10**	D6114	\$3700.00	14.2	10.4	10.8	18.1
10	20	35	6KDV3035Q2B10**	D6115	\$3900.00	14.2	10.4	10.8	18.1
15	30	56	6KDV3056Q2B10**	D6116	\$4000.00	14.2	10.4	10.8	19
25	50	88	6KDV3088Q2B14**	D6117	\$4150.00	14.2	10.4	10.8	25.6
30	60	112	6KDV3112Q2B14**	D6118	\$4400.00	14.2	10.4	10.8	25.6
40	75	148	6KDV3148Q2B14**	D6119	\$4800.00	14.2	10.4	10.8	25.6
60	125	224	6KDV3224Q2B20**	D6120	\$6400.00	15.3	12.2	13.3	51
75	150	280	6KDV3280Q2B20**	D6121	\$6600.00	15.3	12.2	13.3	61.7
100	200	336	6KDV3336Q2B20**	D6122	\$7100.00	15.3	12.2	13.3	61.7
125	250	400	6KDV3400Q2B20**	D6123	\$7800.00	15.3	12.2	13.3	61.7
135	275	450	6KDV3450Q2B20**	D6124	\$9000.00	15.3	12.2	14.5	61.7
150	300	560	6KDV3560Q2B25**	D6125	\$13900.00	20.1	20.5	15.8	123.5
250	500	800	6KDV3800Q2B25**	D6126	\$15400.00	20.1	20.5	15.8	143.3
300	600	1000	6KDV31000Q2B40**	*	\$16761.00	See Dimensions Page 104			
400	800	1300	6KDV31300Q2B40**	*	\$19012.00				
400	800	1400	6KDV31400Q2B40**	*	\$19606.00				
400	900	1500	6KDV31500Q2B40**	*	\$21154.00				
500	1000	1800	6KDV31800Q2B70**	*	\$23357.00				
600	1250	2000	6KDV32000Q2B70**	*	\$26148.00				
600	1250	2200	6KDV32200Q2B70**	*	\$29829.00				
700	1250	2350	6KDV32350Q2B70**	*	\$38269.00				

* Non-Stock: Includes drive controller and external bridge. Please contact factory for more information.

** Please contact customer service for latest revision.



DV-300

Options and Accessories

Description	Model No.	Catalog No.	List Price (GO-5DV)
Digital General Function Card	6KCV300DGF	A3405	\$1230.00
DeviceNet Option Card (DGF card required)	6KCV300DCN	A3404	\$240.00
DeviceNet Option Card (without DGF)	6KCV300DVN	A3410	\$745.00
Profibus-DP Bus Communication Option Card	6KCV300PDP	A3409	\$745.00
Interbus-S Bus Communication Option Card	6KCV300INS	A3408	\$805.00
RS 485/232 Converter	6KCV300CTI	A3429	\$170.00
Digital Encoder to Sinusoidal Converter (DIN rail mount)	6KDV300DES	A3402	\$220.00
I/O Expansion Option Card (discrete and analog)	6KCV300TBO	A3401	\$230.00
AV/DV-300 Keypad Programmer	6KCV300KPU	A3406	\$290.00
External Keypad Mounting Kit	6KCV300KPM	A3407	\$75.00
Win+Drive	6KCV300WPD	A3420	\$5000.00
Genius Communication Option Card	HE300GEN200	A3418	\$1450.00

Digital General Function Card

Allows user to implement high-performance software for specific applications such as winders, position control, PID functions, etc.

DeviceNet Option Card

Requires the use of the DGF card. Allows communication between a master DGF card and up to 63 slave DGF cards. Provides drive control and diagnostics.

SBI DeviceNet Option Card

Allows communication between a master and up to 63 slaves. Provides drive control and diagnostics. DGF card not required.

Profibus-DP Bus Communication Option Card

Allows connection to the Profibus fieldbus network. Provides drive control and diagnostic capabilities.

Interbus-S Bus Communication Option Card

Allows connection to the Interbus fieldbus network. Provides drive control and diagnostic capabilities.

RS 485/232 Converter

Converter module that allows connection between the RS 232 serial output of a computer and the RS 485 input of the AV-300™ or DV-300. This unit allows for single or multi-drop connection.

Digital Encoder to Sinusoidal Converter

Allows the adaptation, galvanic separation, and connection of a digital encoder to the input XE1 on the drive. XE1 is supplied as a connection for a sinusoidal encoder.

I/O Expansion Option Card

Allows the addition of four digital inputs, four digital outputs, and two analog outputs. It is possible to connect two of these per drive.

Keypad Programmer

Allows the configuration of the drive without the need for a PC. Enable, disable, start/stop, monitor, and configure the drive using the two-line LCD display.

External Keypad Mounting Kit

Allows for the remote mounting of the keypad. Includes a two meter cable, template, and mounting plate for door mounting.

Win+Drive

A Windows®-based graphic programming tool used to develop custom regulator schemes, special sequencing operations, and many other drive control applications. Used in conjunction with the DGF card.

Genius Communication Option Card

Allows connection to the Genius fieldbus network. Provides complete drive control and diagnostic capabilities



DV-300

Standard Specifications

Programmable

Four Accel/Decel Ramps	Each independently adjustable from 0-65,000 s	
Ramp Types: Linear, S-Curve	S-curve shape is adjustable through special time constant parameters	
Min./Max. Speed Limits	With independent adjustments for forward and reverse speeds	
Adjustable Current Limits (Motoring and Braking)	150% for 60 s standard	
Seven Preset Speeds	Selectable through three contact closures	
Password Protection	5-digit combination, selectable by user	
Field Control	Current regulation	Disable (for external field supply)
	Field weakening voltage regulation	Field economy
Jog Functions	Reference from internal parameter or external reference potentiometer	
	Can be programmed with or without linear time	
Zero Speed Functionality	Includes zero speed level, zero speed threshold, and delay detection	
Tach Feedback Bypass	Drive automatically switches to armature voltage feedback if the tach signal is lost	
Catch-a-Spinning Motor (Auto Capture)	Allows restart of drive with a rotating motor	
Reset to Default Parameters	Aids in start-up and troubleshooting	

Protective Functions

Faults Detected	Field loss	Heatsink overtemperature
	Overvoltage/undervoltage	Overcurrent
	Motor overtemperature	User's external faults
	Motor overload	Communication card failure
	Tach loss	Enable sequence error
	Option card failure	Fault data history (last ten faults)

Standard I/O

Analogue Inputs	Three differential, 12 bit Programmable and selectable for +/- 10 Vdc, 0-20 mA; 0-10 Vdc, 4-20 mA
Digital Inputs	Four fixed 24 Vdc (enable, start/stop, fast stop, external fault)
Digital Outputs	One drive OK normally open contact One programmable normally open contact
Built-in RS 485 Communication Port	Allows communication with drive for setup and troubleshooting
Sinusoidal Encoder Input (with internal 5 Vdc available from drive)	Provides the best speed regulation
Digital Tach (with internal 24 Vdc available from drive)	Utilizes standard digital tachometer for speed regulation
DC Tach Input	Utilizes analog dc tachometers for speed regulation

Environmental Operating Conditions

Ambient Temperature	0°C to 40°C
Ambient Humidity	5-85% relative humidity (non-condensing)
Altitude	To 3300 ft (1000 m) without derating
Enclosure	IP20 - open chassis

AC Input

Armature	230-500 Vac \pm 10%, 3-phase
Control Power	115-230 Vac \pm 10%, 1-phase
Field	230-460 Vac \pm 10%, 1-phase

Performance

Regenerative and Non-Regenerative	
150% Overload for 60 s	
Speed, Current, and CEMF Regulation	
16 Bit Microprocessor	
Speed Regulation	Digital encoder = 0.02% Sinusoidal enc. = 0.01% DC tach = up to .1% CEMF = 1- 2%

Electrical Standards and Codes

Agency Approvals	CE, cUL
IEC	Low voltage directive #EN50178

Options

2-line backlit, detachable, and removable keypad programmer	
Remote keypad mounting kit	
Communications: DeviceNet, Profibus-DP, Interbus-S, and Genius	
DGF 386 (digital general function card)	
TBO digital or analog expansion modules (maximum of two) per TBO board:	Four 24 Vdc digital inputs Four 24 Vdc digital outputs Two +10 Vdc analog outputs



Line/Load Reactors

Up to 600V

Motor Protection

Reactors help to protect motors from the high peak voltages and fast rise times (dv/dt) which can be experienced in IGBT inverter applications when the distance between the inverter and motor is long.

Harmonic Reduction

Because all standard GE Line/Load reactors are compensated for harmonics (current and frequency), they are extremely effective at reducing the amount of harmonics which are produced by a drive/inverter. Use 5% impedance, harmonic compensated reactors for best reaction of harmonic distortion.

Voltage Spike Protection

A 3% impedance reactor is very effective at protecting against damage to or nuisance tripping of AC voltage source inverters, due to voltage spikes.

Voltage spikes on the AC power lines cause elevation of the DC Bus voltage which may cause the inverter to "trip-off" and indicate an over-voltage protection condition. Use reactors to absorb these line spikes and offer protection to the rectifiers and DC Bus capacitors while minimizing nuisance tripping of the inverter.

Cabinet Product Number	List Price GO-52	NEMA 1 Enclosure Style	Type	W	H	D	Wgt (lbs.)
37GCAB8	\$146.00	CAB-8	Wall Mount	8	8	6	7
37GCAB13V	\$240.00	CAB-13V	Floor	13.22	13	13.09	31
37GCAB17V	\$650.00	CAB-17V	Floor	17	24	18.38	45
37GCAB26C	\$1564.00	CAB-26C	Floor	17.54	31	20.90	180

Outline Dimensions

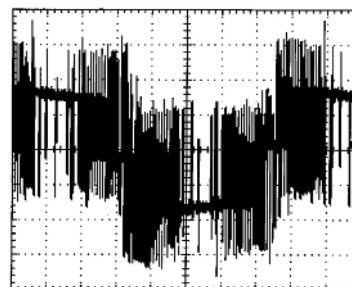
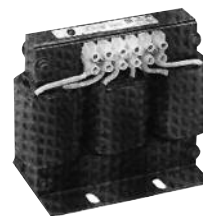
Exact terminal configuration may be different than shown. For exact terminal configuration contact factory for outline drawing.

Agency Approvals

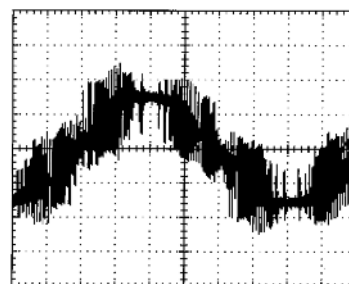
- GE line reactors are UL recognized.
- All UL approvals are for USA and Canada.
- UL-506 File #E191687 (1 amp-1200 amps)
- UL-508 File #E191686 (1 amp-1200 amps)
- All higher currents offer UL recognized insulation systems and construction.
- CE Marked

NEMA 1 Cabinets

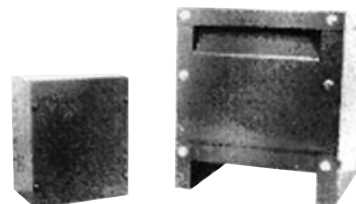
All GE Line/Load Reactors are available as either open type or in a NEMA Type 1 general purpose enclosure. To order a reactor mounted in a cabinet simply change the second to last digit of the product number from "0" to "1". Example 37G 00802 becomes 37G 00812.



Typical Harmonic Distortion
of PWM Inverter Without Reactor



With 5% Impedance Reactor



Line/Load Reactors Up to 600V

Selection Table* 600 Volts, 50/60 Hertz (open Type)

Ratings	HP/kw	1/.75	1.5/1.1	2/1.5	3/2.2	5/3.7	7.5/5.5	10/7.5	15/11	20/15	25/18.5	30/22	40/30
208 Volts	3% Impedance	37G 00401	37G 00801	37G 00801	37G 01201	37G 01801	37G 02501	37G 03501	37G 04501	37G 05501	37G 08001	37G 10001	37G 13001
	5% Impedance	37G 00402	37G 00802	37G 00802	37G 01202	37G 01802	37G 02502	37G 03502	37G 04502	37G 05502	37G 08002	37G 10002	37G 13002
240 Volts	3% Impedance	37G 00401	37G 00801	37G 00801	37G 01201	37G 01801	37G 02501	37G 03501	37G 04501	37G 05501	37G 08001	37G 08001	37G 10001
	5% Impedance	37G 00402	37G 00802	37G 00802	37G 01202	37G 01802	37G 02502	37G 03502	37G 04502	37G 05502	37G 08002	37G 08802	37G 10002
380 Volts	2% Impedance	37G 00204	37G 00402	37G 00401	37G 00802	37G 00801	37G 01201	37G 01801	37G 02501	37G 03501	37G 04501	37G 04501	37G 08001
	4% Impedance	37G 00201	37G 00404	37G 00402	37G 00803	37G 00802	37G 01202	37G 01802	37G 02502	37G 03502	37G 04502	37G 04502	37G 08002
400 Volts	2% Impedance	37G 00201	37G 00402	37G 00402	37G 00802	37G 00801	37G 01201	37G 01801	37G 02501	37G 03501	37G 04501	37G 04501	37G 05501
	4% Impedance	37G 00202	37G 00404	37G 00403	37G 00803	37G 00802	37G 01202	37G 01802	37G 02502	37G 03502	37G 04502	37G 04502	37G 05502
415 Volts	2% Impedance	37G 00201	37G 00402	37G 00402	37G 00802	37G 00801	37G 01201	37G 01801	37G 02501	37G 03501	37G 04501	37G 04501	37G 05501
	4% Impedance	37G 00202	37G 00404	37G 00403	37G 00803	37G 00802	37G 01202	37G 01802	37G 02502	37G 03502	37G 04502	37G 04502	37G 05502
480 Volts	3% Impedance	37G 00201	37G 00201	37G 00402	37G 00402	37G 00802	37G 01202	37G 01802	37G 02502	37G 03502	37G 03502	37G 04502	37G 05502
	5% Impedance	37G 00202	37G 00202	37G 00403	37G 00403	37G 00803	37G 01203	37G 01803	37G 02503	37G 03503	37G 03503	37G 04503	37G 05503
600 Volts	3% Impedance	37G 00202	37G 00202	37G 00403	37G 00403	37G 00803	37G 00802	37G 01202	37G 01802	37G 02502	37G 02502	37G 03502	37G 04502
	5% Impedance	37G 00203	37G 00203	37G 00404	37G 00404	37G 00804	37G 00803	37G 01203	37G 01803	37G 02503	37G 02503	37G 03503	37G 04503

*For maximum continuous current ratings refer to Specifications on next page.

Ratings	HP/kw	50/37.5	60/45	75/55	100/75	125/93	150/112	200/150	250/187	300/225	350/262	400/300	500/375	600/450	750/550
208 Volts	3% Impedance	37G 16001	37G 20001B14	37G 25001B14	37G 32001B14	37G 40001B14	37G 50001	37G 60001	37G 75001						
	5% Impedance	37G 16002	37G 20002B14	37G 25002B14	37G 32002B14	37G 40002B14	37G 50002	37G 60002	37G 75002						
240 Volts	3% Impedance	37G 13001	37G 16001	37G 20001B14	37G 25001B14	37G 32001B14	37G 40001B14	37G 50001	37G 60001	37G 75001					
	5% Impedance	37G 13002	37G 16002	37G 20002B14	37G 25002B14	37G 32002B14	37G 40002B14	37G 50002	37G 60002	37G 75002					
380 Volts	2% Impedance	37G 08001	37G 10001	37G 10001	37G 16001	37G 20001B14	37G 25001B14	37G 32002B14	37G 40001B14	37G 40001B14	37G 50001	37G 60001	37G 75002		
	4% Impedance	37G 08002	37G 10002	37G 10002	37G 16002	37G 20002B14	37G 25002B14	37G 32003B14	37G 40002B14	37G 40002B14	37G 50002	37G 60002	37G 75003		
400 Volts	2% Impedance	37G 08001	37G 08001	37G 10001	37G 13001	37G 20002B14	37G 25002B14	37G 32002B14	37G 32001B14	37G 40001B14	37G 50001	37G 50002	37G 75002		
	4% Impedance	37G 08002	37G 08002	37G 10002	37G 13002	37G 20003B14	37G 25003B14	37G 32003B14	37G 32002B14	37G 40002B14	37G 50002	37G 60003	37G 75003		
415 Volts	2% Impedance	37G 08001	37G 08001	37G 10001	37G 13001	37G 20002B14	37G 20002B14	37G 25001B14	37G 32001B14	37G 40001B14	37G 50001	37G 50001	37G 75002	37G 75002	
	4% Impedance	37G 08002	37G 08002	37G 10002	37G 13002	37G 20003B14	37G 20003B14	37G 25002B14	37G 32002B14	37G 40002B14	37G 50002	37G 50002	37G 75003	37G 75003	
480 Volts	3% Impedance	37G 08002	37G 08002	37G 10002	37G 13002	37G 16002	37G 20002B14	37G 25002B14	37G 32002B14	37G 40002B14	37G 50002	37G 50002	37G 60002	37G 75002	
	5% Impedance	37G 08003	37G 08003	37G 10003	37G 13003	37G 16003	37G 20003B14	37G 25003B14	37G 32003B14	37G 40003B14	37G 50003	37G 50003	37G 60003	37G 75003	
600 Volts	3% Impedance	37G 05502	37G 08002	37G 08002	37G 10002	37G 13002	37G 16002	37G 20002B14	37G 25002B14	37G 32002B14	37G 40002B14	37G 40002B14	37G 50002	37G 60002	37G 75002
	5% Impedance	37G 05503	37G 08003	37G 08003	37G 10003	37G 13003	37G 16003	37G 20003B14	37G 25003B14	37G 32003B14	37G 40003B14	37G 40003B14	37G 50003	37G 60003	37G 75003

Consult Factory

For Input or Output of Adjustable Speed Drive/Inverter Systems

*For higher or lower current ratings, consult factory.

*For other voltages or frequencies, consult factory. Single phase reactors are also available, consult factory for proper selection.

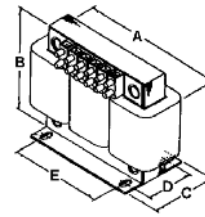
This table is suitable for selection of both input and output reactors because their harmonic compensation and IGBT protection allow them to be used in either application. Specific current and inductance ratings are indicated on next page. Consult factory for any special applications (higher current, motor rating different than controller rating, etc.)

Select GE Line/Load reactors based upon motor horsepower, (or kilowatts) and voltage. Verify that the motor full load ampere rating is within the fundamental current rating of the reactor, and the drive/inverter rating is within the maximum continuous rating of the reactor (See next page).



Line/Load Reactors

3-Phase Reactors: Line/Load Specifications Table



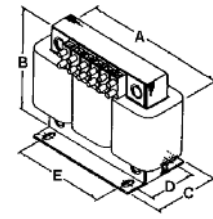
600 Volts, 50/60 hz (Open Type)

Open Type Product Number	List Price, Open Type GO-52	Fundamental Amps	Max. Amps	Inductance	Watts Loss	A mm/in.	B mm/in.	C mm/in.	D mm/in.	E mm/in.	Open Type Wgt. Kg/Lbs.	NEMA 1 Enclosure Style	List Price, NEMA GO-52
37G00201	\$188.00	2	3	12.0mh	7.5	112/4.4	102/4.0	74/2.8	50/2.0	36/1.44	1.8/4	CAB-8	\$350.00
37G00202	\$198.00	2	3	20.0mh	11.3	112/4.4	102/4.0	74/2.9	50/2.0	36/1.44	1.8/4	CAB-8	\$362.00
37G00203	\$226.00	2	3	32.0mh	16	112/4.4	102/4.0	74/2.9	50/2.0	36/1.44	1.8/4	CAB-8	\$390.00
37G00204	\$164.00	2	3	6.0mh	10.7	112/4.4	102/4.0	69/2.7	44/1.73	36/1.44	1.4/3	CAB-8	\$326.00
37G00401	\$190.00	4	6	3.0mh	14.5	112/4.4	102/4.0	74/2.9	50/2.0	36/1.44	1.8/4	CAB-8	\$352.00
37G00402	\$196.00	4	6	6.5mh	20	112/4.4	102/4.0	74/2.9	50/2.0	36/1.44	2.3/4	CAB-8	\$360.00
37G00403	\$204.00	4	6	9.0mh	20	112/4.4	102/4.0	79/3.1	54/2.1	36/1.44	1.8/5	CAB-8	\$368.00
37G00404	\$234.00	4	6	12.0mh	21	112/4.4	102/4.0	91/3.6	66/2.6	36/1.44	2.7/6	CAB-8	\$400.00
37G00801	\$200.00	8	12	1.5mh	19.5	152/6.0	122/4.8	79/3.1	54/2.1	50/2.0	3.1/7	CAB-8	\$364.00
37G00802	\$224.00	8	12	3.0mh	29	152/6.0	122/4.8	79/3.1	54/2.1	50/2.0	3.2/8	CAB-8	\$388.00
37G00803	\$306.00	8	12	5.0mh	25.3	152/6.0	122/4.8	86/3.4	63/2.5	50/2.0	5.0/11	CAB-8	\$474.00
37G00804	\$314.00	8	12	7.5mh	28	152/6.0	122/4.8	86/3.4	63/2.5	50/2.0	5.9/13	CAB-8	\$484.00
37G01201	\$236.00	12	18	1.25mh	26	152/6.0	122/4.8	79/3.1	54/2.1	50/2.0	4.0/9	CAB-8	\$402.00
37G01202	\$250.00	12	18	2.5mh	31	152/6.0	122/4.8	79/3.1	54/2.1	50/2.0	4.5/10	CAB-8	\$416.00
37G01203	\$360.00	12	18	4.2mh	41	152/6.0	122/4.8	94/3.7	70/2.75	50/2.0	8.1/18	CAB-8	\$532.00
37G01801	\$308.00	18	27	0.8mh	36	152/6.0	122/4.8	79/3.1	54/2.1	50/2.0	4.0/9	CAB-8	\$476.00
37G01802	\$316.00	18	27	1.5mh	43	152/6.0	122/4.8	86/3.4	53/2.5	50/2.0	5.4/12	CAB-8	\$486.00
37G01803	\$418.00	18	27	2.5mh	43	183/7.2	145/5.7	97/3.8	66/2.6	76/3.0	7.3/16	CAB-13V	\$690.00
37G02501	\$322.00	25	37.5	0.5mh	48	183/7.2	142/5.6	86/3.4	60/2.3	76/3.0	5.0/11	CAB-13V	\$590.00
37G02502	\$364.00	25	37.5	1.2mh	52	183/7.2	142/5.6	86/3.4	60/2.3	76/3.0	6.3/14	CAB-13V	\$634.00
37G02503	\$430.00	25	37.5	0.8mh	61	183/7.2	145/5.7	97/3.8	66/2.6	76/3.0	8.1/18	CAB-13V	\$704.00
37G03501	\$364.00	35	52.5	0.4mh	49	183/7.2	142/5.6	97/3.8	66/2.6	76/3.0	6.3/14	CAB-13V	\$634.00
37G03502	\$382.00	35	52.5	0.8mh	54	183/7.2	145/5.7	97/3.8	66/2.6	76/3.0	7.3/16	CAB-13V	\$654.00
37G03503	\$570.00	35	52.5	1.2mh	54	229/9.0	178/7.0	122/4.8	80/3.2	76/3.0	14/30	CAB-13V	\$850.00
37G04501	\$480.00	45	67.5	0.3mh	54	229/9.0	178/7.0	122/4.8	80/3.2	76/3.0	10/23	CAB-13V	\$756.00
37G04502	\$504.00	45	67.5	0.7mh	62	229/9.0	178/7.0	122/4.8	80/3.2	76/3.0	13/28	CAB-13V	\$782.00
37G04503	\$668.00	45	67.5	1.2mh	65	229/9.0	178/7.0	136/5.3	93/3.6	76/3.0	18/39	CAB-13V	\$954.00
37G05501	\$508.00	55	82.5	0.26mh	64	229/9.0	178/7.0	122/4.8	80/3.2	76/3.0	11/24	CAB-13V	\$786.00
37G05502	\$532.00	55	82.5	0.50mh	67	229/9.0	178/7.0	122/4.8	80/3.2	76/3.0	12/27	CAB-13V	\$810.00
37G05503	\$676.00	55	82.5	0.85mh	71	229/9.0	178/7.0	142/5.6	99/3.9	76/3.0	18/41	CAB-13V	\$962.00
37G08001	\$590.00	80	120	0.20mh	82	274/10.8	208/8.2	142/5.6	88/3.5	92/3.6	19/43	CAB-13V	\$872.00
37G08002	\$624.00	80	120	0.40mh	86	274/10.8	211/8.3	142/5.6	88/3.5	92/3.6	23/51	CAB-13V	\$908.00
37G08003	\$1098.00	80	120	0.70mh	96	274/10.8	213/8.4	160/6.3	117/4.6	82/3.6	25/55	CAB-13V	\$1404.00

*To order a reactor mounted in NEMA 1 enclosure simply change the second to last digit of the product number from "0" to "1".

Line/Load Reactors

3-Phase Reactors: Line/Load Specifications Table



600 Volts, 50/60 hz (Open Type)

Open Type Product Number	List Price, Open Type GO-52	Fundamental Amps	Max. Amps	Inductance	Watts Loss	A mm/in.	B mm/in.	C mm/in.	D mm/in.	E mm/in.	Open Type Wgt. Kg/Lbs.	NEMA 1 Enclosure Style	List Price, NEMA GO-52
37G10001	\$794.00	100	150	0.15mh	94	274/10.8	211/8.3	142/5.6	88/3.5	92/3.6	21/47	CAB-13V	\$1086.00
37G10002	\$872.00	100	150	0.30mh	84	274/10.8	208/8.2	147/5.8	93/3.6	92/3.6	23/51	CAB-13V	\$1168.00
37G10003	\$1282.00	100	150	0.45mh	108	274/10.8	213/8.4	160/6.3	106/4.2	92/3.6	33/74	CAB-13V	\$1598.00
37G13001	\$880.00	130	195	0.10mh	108	229/9.0	179/7.04	124/4.9	80/3.16	76/3	13/29	CAB-13V	\$1176.00
37G13002	\$992.00	130	195	0.20mh	180	274/10.8	213/8.4	171/6.75	93/3.66	92/3.63	26/57	CAB-13V	\$1294.00
37G13003	\$1310.00	130	195	0.30mh	128	274/10.8	213/8.4	184/7.25	106/4.16	92/3.63	29/64	CAB-13V	\$1628.00
37G16001	\$1098.00	160	240	0.075mh	116	274/10.8	213/8.4	146/5.75	80/3.16	92/3.63	18/40	CAB-13V	\$1404.00
37G16002	\$1226.00	160	240	0.150mh	149	274/10.8	213/8.4	152/6	88/3.47	92/3.63	22/50	CAB-13V	\$1540.00
37G16003	\$1474.00	160	240	0.230mh	138	274/10.8	213/8.4	181/7.13	106/4.16	92/3.63	31/67	CAB-13V	\$1800.00
37G20001B14	\$1178.00	200	300	0.055mh	124	274/10.8	213/8.4	152/6	106/4.16	92/3.63	22/48	CAB-13V	\$1488.00
37G20002B14	\$1436.00	200	300	0.110mh	168	274/10.8	213/8.4	216/8.5	112/4.41	92/3.63	31/67	CAB-13V	\$1760.00
37G20003B14	\$1800.00	200	300	0.185mh	146	274/10.8	267/10.5	237/9.35	150/5.91	92/3.63	46/100	CAB-13V	\$2142.00
37G25001B14	\$1334.00	250	375	0.045mh	154	274/10.8	208/8.17	184/7.25	106/4.16	92/3.63	31/68	CAB-13V	\$1652.00
37G25002B14	\$2080.00	250	375	0.090mh	231	366/14.4	356/14	210/8.25	131/5.16	117/4.6	49/106	CAB-17V	\$2866.00
37G25003B14	\$3190.00	250	375	0.150mh	219	366/14.4	356/14	288/11.35	148/5.82	117/4.6	64/140	CAB-17V	\$4032.00
37G32001B14	\$2102.00	320	480	0.040mh	224	366/14.4	356/14	168/6.6	129/5.07	117/4.6	50/110	CAB-17V	\$2890.00
37G32002B14	\$2432.00	320	480	0.075mh	264	375/14.75	356/14	257/10.13	149/5.88	117/4.6	57/125	CAB-17V	\$3236.00
37G32003B14	\$3410.00	320	480	0.125mh	351	366/14.4	356/14	330/13	181/7.13	117/4.6	86/190	CAB-17V	\$4264.00
37G40001B14	\$2294.00	400	600	0.030mh	231	366/14.4	356/14	254/10	131/5.16	117/4.6	46/100	CAB-17V	\$3092.00
37G40002B14	\$3416.00	400	600	0.060mh	333	394/15.5	356/14	292/11.5	172/6.76	117/4.6	71/155	CAB-17V	\$4270.00
37G40003B14	\$4182.00	400	600	0.105mh	293	394/15.5	356/14	368/14.5	184/7.26	117/4.6	91/200	CAB-17V	\$5074.00
37G50001B14	\$2452.00	500	750	0.025mh	266	394/15.5	356/14	267/10.5	140/5.5	117/4.6	55/120	CAB-17V	\$3256.00
37G50002	\$3614.00	500	750	0.050mh	340	394/15.5	356/14	330/13	172/6.76	117/4.6	82/180	CAB-1726C	\$5438.00
37G50003	\$4854.00	500	700	0.085mh	422	394/15.5	356/14	375/14.75	248/9.76	117/4.6	132/290	CAB-1726C	\$6738.00
37G60001	\$2992.00	600	900	0.020mh	307	394/15.5	356/14	279/11	168/6.66	117/4.6	73/160	CAB-1726C	\$4784.00
37G60002	\$4230.00	600	900	0.040mh	414	394/15.5	356/14	356/14	172/6.76	117/4.6	96/210	CAB-1726C	\$6084.00
37G60003	\$6714.00	600	840	0.065mh	406	394/15.5	356/14	394/15.5	235/9.26	117/4.6	132/290	CAB-1726C	\$8692.00
37G75001	\$4734.00	750	1125	0.015mh	427	559/22	508/20	254/10	168/6.63	183/7.2	91/200	CAB-30B26C	\$6614.00
37G75002	\$6118.00	750	1125	0.029mh	630	559/22	508/20	317/12.5	197/7.76	183/7.2	141/310	CAB-30B26C	\$8066.00
37G75003	\$8690.00	750	1125	0.048mh	552	559/22	508/20	376/14.8	242/9.51	183/7.2	183/400	CAB-30B26C	\$10714.00

*To order a reactor mounted in NEMA 1 enclosure simply change the second to last digit of the product number from "0" to "1".



Matrix Series D Harmonic Filters

Matrix Harmonic filters provide broadband reduction of harmonics. Matrix Harmonic Filters not only offer better performance over other broad band filtering and 18-pulse harmonic reduction techniques, they are also suitable for a wider range of applications. Matrix Harmonic Filters can be installed in either variable or constant torque drive applications and can be applied on either diode or SCR rectifiers. For any application other than variable torque applications, it is suggested that you contact the factory for filter selection.

Typical Applications

Use Matrix Harmonic filters to minimize harmonic current distortion in these and other 6-pulse rectifier applications:

- Fans and Pumps
- Water Treatment Facilities
- HVAC Systems
- AC or DC Motor Drives
- Rectifier type welders
- Induction Heating Equipment
- UPS Equipment
- Elevators

Matrix Filter enables most AC drive systems to comply with the voltage and current distortion limits outlined in IEEE 519. A complete harmonic analysis and product selection tool is available on the internet. Go to geindustrial.com and select Products, select Capacitors, choose Matrix Harmonic Filter and then select Energy Savings Calculator and Harmonic Estimator.

Matrix Harmonic Filters are multi-stage low pass filters specially configured to avoid the attraction of harmonics from other sources on a shared power system. Matrix filters will not cause power system resonance. However, the configuration of the filter requires that only drives or equivalent loads be loaded on the output of a Matrix harmonic filter. One filter can be used with multiple drives. However, if there is a drive bypass circuit, there must be one filter per drive and the filter and drive combination must be bypassed.

Matrix Harmonic Filters are available in a NEMA 1, NEMA 3R or as a modular design preassembled onto panels for subsequent assembly into customer supplied cabinet.

Product Specifications

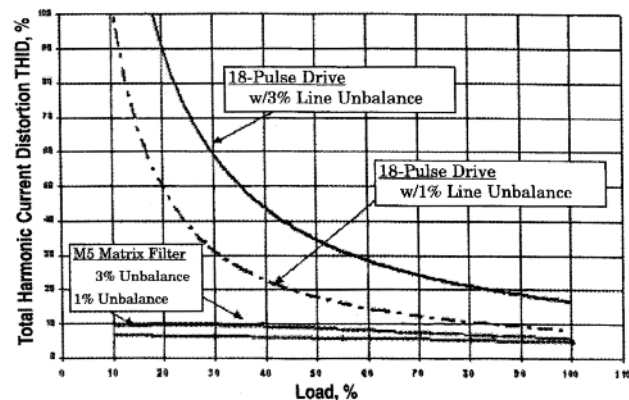
- Input Voltage 480 Volts +/- 10%
- Ambient Temperature:
 - Storage – 40°C to 90°C
 - Operating – 40°C to 50°C
- Altitude: 1000 meters maximum
- UL approved – File E191686 for U.S. and Canada

Minimum System Requirements to Achieve Performance Levels

- Source Impedance: 1.5% minimum to 5% maximum
- System voltage: 480 volts (line to line) +/- 10%
- Frequency: 60 Hz +/- .75 Hz
- Balanced Line Voltage: within 1%
- Background Voltage Distortion: 0% THVD

The Matrix D Filters typically achieve 5% THID at full load and guarantee worst case current distortion at any load between 0% and 100%, will be 8% THID or less at the filter input terminals. The Matrix D Series is typically used in place of applications requiring harmonic mitigation associated with 12- or 18-pulse rectifiers. The chart below compares the performance of Matrix D Filters to 18-pulse rectifiers in real world applications, which include line voltage unbalance of 1% to 3% and loading conditions from 0% to 100%.

Matrix D Filter performs better than 18-pulse in normal operating conditions.



Matrix D vs. 18-pulse

Matrix Series D Harmonic Filters

Selection Table

Matrix D, 480 VAC, 60 HZ, Three Phase, Variable Torque

Applications

Select Matrix filters based on the horsepower (or kilowatt) rating for the adjustable speed drive or the combined current rating of all motors to be connected to the load side of the filter. For variable torque, DC drive or other applications consult factory for proper filter selection.

Source Impedance

If the source impedance is less than 1.5% impedance, it is required that an input reactor of at least 1.5% impedance be added in order to have guaranteed performance level. For best value and performance it is recommended that a 3% line reactor be used whenever the source impedance is less than 1.5%.

General Purpose Enclosure Style

480 Volts, 60 Hz

Amps	HP	NEMA 1 & NEMA 2 Drip Proof	List Price GO-52A	Enclosure	Wt. (Lbs.)	NEMA 3R Weather Resistant	List Price GO-52A	Enclosure	Wt. (Lbs.)	Figure
6	3	37GMDG0006D	\$1623.00	CAB-12C2	76	37GMDW0006D	\$1856.00	CAB-12C3	86	Figure 1
8	5	37GMDG0008D	\$1661.00	CAB-12C2	79	37GMDW0008D	\$1888.00	CAB-12C3	89	Figure 1
11	7.5	37GMDG0011D	\$1790.00	CAB-12C2	83	37GMDW0011D	\$2140.00	CAB-12C3	93	Figure 1
14	10	37GMDG0014D	\$1821.00	CAB-12C2	89	37GMDW0014D	\$2202.00	CAB-12C3	99	Figure 1
21	15	37GMDG0021D	\$2118.00	CAB-12C2	100	37GMDW0021D	\$2312.00	CAB-12C3	110	Figure 1
27	20	37GMDG0027D	\$2160.00	CAB-12C2	115	37GMDW0027D	\$2355.00	CAB-12C3	125	Figure 1
34	25	37GMDG0034D	\$2496.00	CAB-12C2	126	37GMDW0034D	\$2691.00	CAB-12C3	136	Figure 1
44	30	37GMDG0044D	\$2626.00	CAB-12C2	138	37GMDW0044D	\$2819.00	CAB-12C3	148	Figure 1
52	40	37GMDG0052D	\$3057.00	CAB-17C2	190	37GMDW0052D	\$3270.00	CAB-17C3	199	Figure 2
66	50	37GMDG0066D	\$3518.00	CAB-17C2	219	37GMDW0066D	\$3731.00	CAB-17C3	228	Figure 2
83	60	37GMDG0083D	\$3830.00	CAB-17C2	241	37GMDW0083D	\$4042.00	CAB-17C3	250	Figure 2
103	75	37GMDG0103D	\$4010.00	CAB-17C2	244	37GMDW0103D	\$4223.00	CAB-17C3	253	Figure 2
128	100	37GMDG0128D	\$5592.00	CAB-26C2	385	37GMDW0128D	\$5794.00	CAB-26C3	406	Figure 3
165	125	37GMDG0165D	\$6110.00	CAB-26C2	441	37GMDW0165D	\$6301.00	CAB-26C3	462	Figure 3
208	150	37GMDG0208D	\$6571.00	CAB-26C2	461	37GMDW0208D	\$6924.00	CAB-26C3	482	Figure 3
240	200	37GMDG0240D	\$6596.00	CAB-26C2	467	37GMDW0240D	\$6949.00	CAB-26C3	488	Figure 3
320	250	37GMDG0320D	\$11131.00	CAB-26D2	663	37GMDW0320D	\$11483.00	CAB-26D3	794	Figure 4
403	300	37GMDG0403D	\$12507.00	CAB-26D2	706	37GMDW0403D	\$12860.00	CAB-26D3	838	Figure 4
482	400	37GMDG0482D	\$13240.00	CAB-26D2	800	37GMDW0482D	\$13593.00	CAB-26D3	931	Figure 4
636	500	37GMDG0636D	\$18140.00	CAB-30D2	1205	37GMDW0636D	\$18429.00	CAB-30D3	1247	Figure 5
786	600	37GMDG0786D	\$20188.00	CAB-30D2	1416	37GMDW0786D	\$20478.00	CAB-30D3	1458	Figure 5

480 Volts, 60 Hz

Amps	HP	Open Panel	List Price GO-52A	Weight (Lbs.)	HMR Size (in.)	Capacitor Assemblies Size (in.)
6	3	37GMDP0006D	\$1061.00	22	11.3"H x 6"W x 6.2"D	4.8"H x 4.8"W x 7.3"D
8	5	37GMDP0008D	\$1101.00	24	11.3"H x 6"W x 6.3"D	4.8"H x 4.8"W x 7.3"D
11	7.5	37GMDP0011D	\$1239.00	29	12.4"H x 7.2"W x 5.7"D	4.8"H x 4.8"W x 8.2"D
14	10	37GMDP0014D	\$1269.00	35	12.4"H x 7.3"W x 6.3"D	4.8"H x 4.8"W x 8.2"D
21	15	37GMDP0021D	\$1455.00	46	15.8"H x 9"W x 6.5"D	5.6"H x 5.6"W x 7.3"D
27	20	37GMDP0027D	\$1558.00	61	15.8"H x 9"W x 7"D	5.6"H x 5.6"W x 8.2"D
34	25	37GMDP0034D	\$1826.00	72	15.8"H x 9"W x 7.5"D	5.6"H x 5.6"W x 8.7"D
44	30	37GMDP0044D	\$1982.00	84	15.8"H x 9"W x 8"D	5.6"H x 5.6"W x 7.3"D
52	40	37GMDP0052D	\$2433.00	125	16.5"H x 12.3"W x 9.6"D	5.6"H x 5.6"W x 7.3"D
66	50	37GMDP0066D	\$2820.00	154	16.5"H x 12.3"W x 10.7"D	8"H x 7.3"W x 12"D
83	60	37GMDP0083D	\$3207.00	176	16.5"H x 12.3"W x 11.3"D	8"H x 7.3"W x 12"D
103	75	37GMDP0103D	\$3398.00	180	16.5"H x 12.3"W x 11"D	8"H x 7.3"W x 12"D
128	100	37GMDP0128D	\$4551.00	217	23"H x 15.3"W x 11.3"D	12"H x 7.3"W x 12"D
165	125	37GMDP0165D	\$5085.00	273	23"H x 15.3"W x 11.5"D	12"H x 7.3"W x 12"D
208	150	37GMDP0208D	\$5362.00	292	23"H x 15.3"W x 12"D	15"H x 7.3"W x 12"D
240	200	37GMDP0240D	\$5459.00	298	23"H x 15.3"W x 12.4"D	15"H x 7.3"W x 12"D
320	250	37GMDP0320D	\$8121.00	464	35.5"H x 18"W x 20.2"D	15"H x 7.3"W x 12"D 8"H x 7.3"W x 12"D
403	300	37GMDP0403D	\$9672.00	508	35.5"H x 18"W x 22.5"D	12"H x 7.3"W x 12"D 15"H x 7.3"W x 12"D
482	400	37GMDP0482D	\$10439.00	602	35.5"H x 18"W x 23"D	15"H x 7.3"W x 12"D 15"H x 7.3"W x 12"D
636	500	37GMDP0636D	\$15092.00	873	35.5"H x 24"W x 23.5"D	12"H x 8.1"W x 12"D 15"H x 7.3"W x 12"D 15"H x 7.3"W x 12"D
786	600	37GMDP0786D	\$17056.00	1082	35.5"H x 24"W x 24"D	15"H x 7.3"W x 12"D 15"H x 7.3"W x 12"D 15"H x 7.3"W x 12"D

