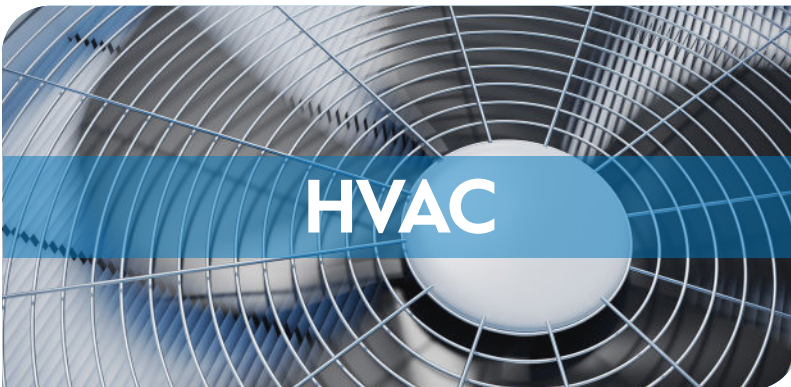


FRENIC-MEGA (G2) 3-in-1 Applications

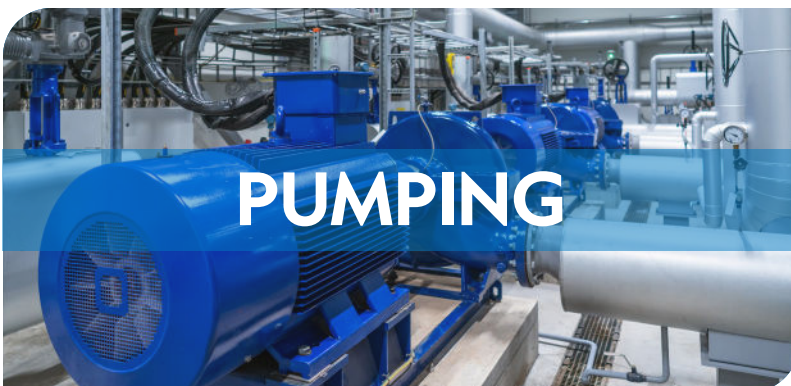
Our new FRENIC-MEGA (G2) AC drive combines the functionality of multiple previous FRENIC drive families while taking performance and reliability to a whole new level. This makes it ideal for a broad range of applications, including Industrial, HVAC and Pumping. So, no matter how varied your applications are, you can spec and stock from a single drive family to maximize your flexibility and minimize. Now, that's truly an evolution in AC Drive design!



- Positioning, Orientation Function
- Current Response 1,000Hz
- 260 Steps Customizable Logic Functions
- Expand Built-In Braking Transistor Up to 75HP 230V, 100HP 460V HHD



- Fireman's Override
- Real Time Clock Schedule
- Broken Belt Detection
- Fan Fly Catching
- Build-in Metasys N2 and BACnet MS/TP protocol



- Broken Pipe Detection
- Pipe Fill Mode
- Cascade Pump Control
- 4 PID Controls and PID Auto Tuning

The FRENIC-MEGA (G2) upholds Fuji Electric's renowned standards for quality, robust design, and user-friendly interface in general-purpose drives. This newest edition to the FRENIC-MEGA family surpasses its predecessor by introducing advanced high-performance features. Available from 1/2 to 1,200HP, the FRENIC-MEGA (G2) comes complete with a unified interface, standardized programming, and industrial network connectivity - all backed by a best-in-class warranty, 3 years from factory, upgradable to 8 years.



FEATURES

- Sensorless Vector Control Mode
- Advanced PID Functions
- Built-In Safe Torque Off (STO) Input
- Removable Control Terminals
- Multi Function Keypad as Standard
- Permanent Magnet Synchronous Motor Operation
- DeviceNet, PROFIBUD-DP, EtherNet/IP, PROFINET RT, Modbus-TCP, BACnet/IP by Option Card

KEY BENEFITS

- One drive that is capable of both constant torque and variable torque
- One drive that can cover all applications to minimize inventory
- UL Type 1/NEMA 1 by Option Kit
- UL Type 12 Heatsink Above 100HP
- Easy-to-read plain-English keypad for ease of configuration and monitoring
- USB port that can be used to connect a PC and access robust, yet easy-to-program functions
- Built on the ultra-reliable and field-proven FRENIC-MEGA series platform



A DRIVE FOR JUST ABOUT EVERY APPLICATION!

230V: ½ – 150HP
460V : ½ – 1,200HP



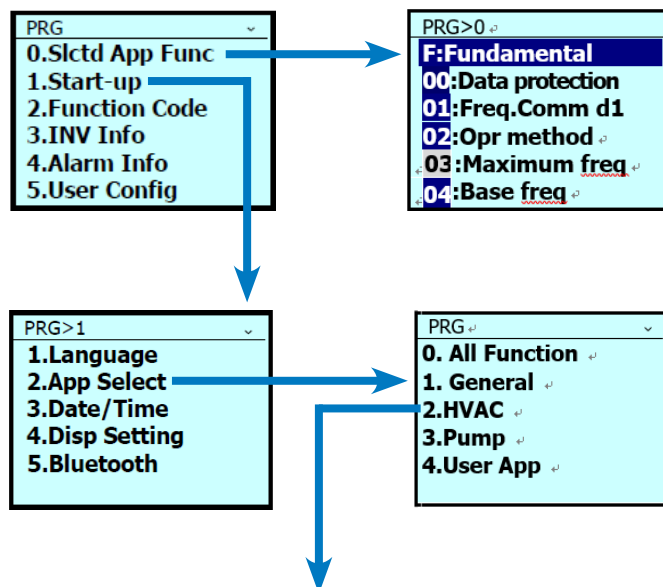
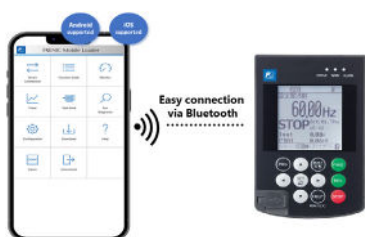
APPLICATION SETTINGS

The FRENIC-MEGA (G2) comes with extensive yet simple to utilize application settings helping you setup and optimize quicker than ever.



KEYPAD

The FRENIC-MEGA (G2)'s full feature keypad includes Bluetooth connectivity. The FRENIC Mobile Loader is a free configuration and troubleshooting bluetooth connected phone App tool for enhanced user productivity panel mounted.



SOFTWARE

All FRENIC Series inverters come with complimentary programming/troubleshooting PC software.



General	HVAC	Pump
F code	F code	F code
E code	E code	E code
C code	C code	C code
P code	P code (PM ?)	P code (PM?)
H code	H code	H code
a,b,r code (motor2,3,4)		
A,b,r code (Speed control 3,4)		
J code	J code	J code
	J1 code (PID1)	J1 code (PID1)
	J2 code (PID2)	J2 code (PID2)
		J4 code (Cascade)
	J5 code (Ex PID1)	J5 code (Ex PID1)
	J6 code (Ex PID2,3)	J6 code (Ex PID2,3)
d code	d code (No positioning)	d code (No positioning)
U code	U code	U code
U1 code	U1 code	U1 code
y code	y code (+BAC, N2)	y code (+BAC, N2)
	T code (Timer)	T code (Timer)
	K code (Keypad)	K code (Keypad)

SPECIFICATIONS

Ratings	Model Series	FRENIC-MEGA
	Product Series Code	G2
	HP & Voltage	1/2 - 150HP, 3ph 230V* 1/2 - 1200HP, 3ph 460V*
Control Mode	Overload Capability	HND: 120% - 1 min HHD: 150% - 1 min 200% - 3 sec
	V/f Control	Standard
	V/f Control with Encoder	Option OPC-PG, OPC-PG2, OPC-PG22
	Dynamic Torque Vector Control	Standard
	Dynamic Torque Vector Control with Encoder	Option OPC-PG, OPC-PG2, OPC-PG22
	Vector Control with Encoder	Option OPC-PG, OPC-PG2, OPC-PG22
Specifications	PM Motor Control	Standard
	Analog Input	3
	Analog Output	2
	Digital Input	11
	Digital Output	6
	Max. Output Frequency	599Hz
	Customizable Logic	Available
	Safety function	2 Inputs
	Remote Keypad	-
	Multi Function Keypad with Gasket	Standard
	Modbus RTU	Standard
	DeviceNet	OPC-DEV
Communications	Profibus DP	OPC-PDP2
	Profinet RT	OPC-ETM
	Ethernet I/P	OPC-ETM
	Modbus TCP	OPC-ETM
	BACNet MS/TP	Standard
	BACNet IP	OPC-PRT3
	Metasys® N2	Standard
	CANOpen	OPC-COP2
	CC-Link	OPC-CCL
	T-Link	OPC-TL
Environment	Altitude	No derating up to 3000 ft (1000m) or less
	EMC Filter	Option - Lead Time
	Heat Sink Through Panel Mounting	FRN0032G2S-2GU through FRN0115G2S-2GU FRN0018G2S-4GU through FRN0060G2S-4GU
	DC Reactor	Standard for 75 HP HHD or 100 HP HND and All Larger HPs
	UL Type 1/NEMA 1	Type 1 Kit Option
	UL Type 12 Heatsink	Standard (100 HP and Above)
	UL / cUL, CE, RoHS	Yes

* Capacity varies by duty level. Capacity shown is low duty

HP Rating		Rated Output Current(A) for 1-Ph Input		Rated Output Current(A) for 3-Ph Input		Model Number	Dimensions H x W x D (inches)	Weight (lbs)
HND	HHD	HND	HHD	HND	HHD			
230VAC, 1 or 3-Phase, 60Hz Input								
1/2	1/2	-	1.9	-	3.0	FRN0003G2S-2GU	10.24 x 4.33 x 5.2	3.6
1	1	-	3.1	-	5.0	FRN0005G2S-2GU	10.24 x 4.33 x 5.69	4.2
2	2	-	4.7	-	8.0	FRN0008G2S-2GU	10.24 x 5.91 x 5.69	5.7
3	3	-	6.3	-	11.0	FRN0011G2S-2GU		6.4
5	5	-	11.0	-	18.0	FRN0018G2S-2GU		13
10	7.5	23.0	17.0	31.8	27.0	FRN0032G2S-2GU	10.24 x 8.66 x 7.66	14
15	10	30.0	23.0	46.2	37.0	FRN0046G2S-2GU		13
20	15	32.0	26.0	59.4	49.0	FRN0059G2S-2GU		23
25	20	39.0	33.0	74.8	63.0	FRN0075G2S-2GU	15.75 x 9.84 x 7.66	24
30	25	44.0	38.0	88.0	76.0	FRN0088G2S-2GU		25
40	30	58.0	45.0	115	90.0	FRN0115G2S-2GU		51
50	40	74.0	61.0	148	119	FRN0146G2S-2GU	21.65 x 12.6 x 10.04	68
60	50	93.0	75.0	180	146	FRN0180G2S-2GU	24.21 x 13.98 x 10.63	88
75	60	95.0	93.0	215	180	FRN0215G2S-2GU	29.13 x 13.98 x 10.63	93
100	75	102	95.0	288	215	FRN0288G2W-2GU		132
125	100	131	109	346	288	FRN0346G2W-2GU	29.53 x 20.87 x 11.22	214
150	125	149	131	432	346	FRN0432G2W-2GU	34.65 x 26.77 x 14.17	
460VAC, 1 or 3-Phase, 60Hz Input								
1/2	1/2	-	0.9	-	1.5	FRN0002G2S-4GU	10.24 x 4.33 x 5.2	3.7
1	1	-	1.5	-	2.5	FRN0003G2S-4GU	10.24 x 4.33 x 5.69	4.3
2	2	-	2.4	-	4.2	FRN0004G2S-4GU	10.24 x 5.91 x 5.69	5.8
3	3	-	3.0	-	6.0	FRN0006G2S-4GU		6.4
5	5	-	5.6	-	9.0	FRN0009G2S-4GU		6.6
10	7.5	11.0	8.0	17.5	13.5	FRN0018G2S-4GU	10.24 x 8.66 x 7.66	13
15	10	15.0	12.0	23.0	18.5	FRN0023G2S-4GU		23
20	15	17.0	13.0	35.0	24.5	FRN0035G2S-4GU		51
25	20	20.0	17.0	41.0	32.0	FRN0041G2S-4GU	15.75 x 9.84 x 7.66	62
30	25	23.0	20.0	45.0	39.0	FRN0045G2S-4GU		68
40	30	29.0	23.0	60.0	45.0	FRN0060G2S-4GU		84
50	40	37.0	30.0	75.0	60.0	FRN0085G2S-4GU	21.65 x 12.6 x 10.04	132
60	50	46.0	38.0	91.0	75.0	FRN0105G2S-4GU	24.21 x 13.98 x 10.63	196
75	60	54.0	45.0	112	91.0	FRN0139G2S-4GU	26.57 x 13.98 x 10.63	256
100	75	59.0	55.0	150	112	FRN0179G2W-4GU	29.13 x 13.98 x 10.63	273
150	100	70.0	61.0	217	150	FRN0217G2W-4GU	55.12 x 26.77 x 17.32	487
200	125	82.0	72.0	261	180	FRN0261G2W-4GU	55.12 x 34.65 x 17.32	642
300	200	121	103	361	260	FRN0376G2W-4GU	61.02 x 39.37 x 19.69	650
350	250	146	122	415	325	FRN0431G2W-4GU		
450	300	161	149	547	377	FRN0547G2W-4GU		
500	350	202	167	610	432	FRN0610G2W-4GU		
600	450	288	231	740	585	FRN0840G2W-4GU		
800	500	326	259	960	650	FRN1039G2W-4GU		
900	600	384	297	1040	740	FRN1169G2W-4GU		
1200	900	579	469	1386	1170	FRN1480G2W-4GU		

SCAN TO LEARN MORE ABOUT FRENIC-MEGA (G2)



SCAN TO LEARN HOW TO BUY

