# **General Purpose Micro Drives**



### **GX SERIES**

1-5 HP / PROTECTED CHASSIS / NEMA 1

230 VOLT									
MODEL NUMBER	CONSTANT TORQUE		VARIABLE TORQUE		DIMENSIONS (IN)			WGT	LIST PRICE
	HP	AMPS	HP	AMPS	н	W	D	(LBS)	
1 RSI-001-GX-2	1	4.2	-	-	5.0	2.8	5.1	5	CF
℃ RSI-002-GX-2	2	6.8	-	-	5.0	3.8	5.1	5	CF
℃ RSI-003-GX-2	3	9.6	-	-	5.0	5.5	6.1	6	CF
℃ RSI-005-GX-2	5	15.2	-	-	5.0	5.5	6.1	6	CF

460 VOLT									
MODEL NUMBER	CONSTANT TORQUE		VARIABLE TORQUE		DIMENSIONS (IN)			WGT	LIST PRICE
	HP	AMPS	HP	AMPS	н	w	D	(LBS)	
℃ RSI-001-GX-4	1	2.1	-	-	5.0	2.8	5.1	5	CF
√ी RSI-002-GX-4	2	3.4	-	-	5.0	3.8	5.1	5	CF
1 RSI-003-GX-4	3	4.8	-	-	5.0	5.5	6.1	6	CF
1 RSI-005-GX-4	5	7.6	-	-	5.0	5.5	6.1	6	CF

## NEMA 1 CONDUIT KITS

GX-NEMA1KIT-A	CONDUIT KIT FOR 1 HP GX DRIVE	CF
🗇 GX-NEMA1KIT-B	CONDUIT KIT FOR 2 HP GX DRIVE	CF
GX-NEMA1KIT-C	CONDUIT KIT FOR 3 HP AND 5 HP GX DRIVE	CF

## **REMOTE KEYPAD**

℃ VFD-2M-GX-KEYPAD	REMOTE MOUNT KEYPAD AND 2 METER CABLE	CF

• Units are stocked as protected chassis. If NEMA 1 enclosed is required, add NEMA 1 conduit kit. Conduit kits will need to be installed by customer.

Heb stocked

# **General Purpose Micro Drives**



GX SERIES - PROTECTED CHASSIS / NEMA 1 1-5 HP, 230/460V

### RATINGS

Constant Torque: 1 to 5HP @ 460V 1 to 5HP @ 230V

Chassis VFD converts to NEMA 1 with conduit kit



# **RSI GX Series Product Highlights:**

The GX series is a compact, economical chassis drive designed for low horsepower applications.

The GX series has a powerful set of parameters with a simple, easy to use keypad. The menu driven programming structure provides quick, simple setup.

Although small in size, the GX series provides a large amount of digital I/O for custom applications.

#### **Key Advantages:**

- Small, compact design
- Integral PID control
- Sensorless vector control or V/Hz control
- Adjustable carrier frequency
- ◆ Flexible, programmable I/O
- Economical, compact design
- Standard dynamic braking transistor
- Windows based software

## Guaranteed ... for two full years.

Only Benshaw has a two year guarantee.

Every Benshaw variable frequency drive is guaranteed for two full years. Other manufacturers limit their warranties to just one year. But at Benshaw, we believe that, because we build them better, we can guarantee them longer. We call that "the Benshaw Promise."



# Standard Features:

- Standard I/O: 8 digital inputs, 2 analog inputs, 1 analog output, 1 relay output
- Digital metering: Output current, output frequency, DC link voltage, motor RPM, output power, output torque
- Protection: Over current, ground fault, over voltage, current limit, motor overload, output phase loss, over heat, loss of signal, and more
- Communications: ModBus standard
- Voltage tolerance: ±10%
- Control method: Open loop V/HZ, sensorless vector control
- V/HZ patterns: Linear, quadratic, sensorless vector
- Analog output functions: 1 analog output 0-10VDC
- Analog inputs: 4-20mA, 0-10Vdc -10 - +10VDC
- Relay outputs: 1 Form C relay output, programmable to running, faulted, stopped, ready, at speed, high or low frequency levels, loss of signal, and more
- Digital inputs: 8 digital inputs configurable to forward run, reverse run, reset, jog, preset speeds, motorized pot function, emergency stop, alternate ramp selections, and more
- User interface:
  4 digit LED display
- Braking functions: Coast, decel, DC injection braking, and optional dynamic braking

# **GX Series**

# CONTROL TERMINAL LAYOUT



T/M	DESCRIPTION					
MO	Multi-function open collector output					
MG	MO common	MO common				
24	24V output					
P1	MF input terminal	1FX: Forward run				
P2	(factory setting)	RX: Reverse run				
СМ	Input signal common					
<b>P</b> 3		BX: Emergency stop				
P4	MF input terminal (factory setting)	RST: Trip reset				
P5		JOG: Jog operation				
СМ	Input signal common					
P6		Multi-step freqLow				
P7	MF input terminal (factory setting)	Multi-step freqMiddle				
<b>P</b> 8		Multi-step freqHigh				
VR	10V power supply for potentiometer					
V1	Freq. setting voltage signal input: -0~10V					
I	Freq. setting current signal input: 0~20mA					
AM	Multi-function analog output signal: 0~10V					
3A		A contact output				
3B	Multi-function relay	B contact output				
~~~	output terminal	2 A/B contact				
3C		common				
S+	RS485 communication terminal					
S-						