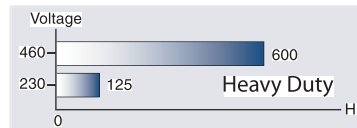
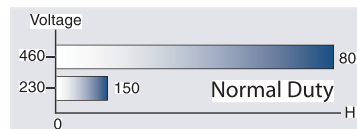


GP10

General Purpose Open Loop Vector AC Drive

DRIVES FOR EVERY INDUSTRY

- Dual Rating
 - Normal Duty Rated (110% OL / 1 Minute)
 - Heavy Duty Rated (150% OL / 1 Minute)
- Two control methods
 - Open Loop (Sensorless) Vector
 - Volts / Hertz
- Motor Auto Tuning for optimum performance
 - Full Dynamic Tuning (spinning motor)
 - Static Tuning (loaded motor, not spinning)
 - On-Line Tuning (continuous tuning while running)
- Keypad: Graphic Back-lit LCD combined with digital LED, Copy Function, 5 lines x 13 characters
- Uniform programming parameters with VG10
- Soft Switching Technology to eliminate output filters
- -10°C to 50°C (+14°F to 122°F)
- PID Control
- Smart Speed Search
- Two Second Control Power Ride Through
- Serial Communication (RS485 Modbus Standard; LonWorks, DeviceNet, Metasys N2, Profibus-DP, Canbus and Interbus-S optional)
- Dynamic Braking built in - 15HP and below Normal Duty, 10HP Heavy Duty
- +/- 0-10 Vdc or 4-20 mA reference inputs
- Programmable I/O
- Overtorque detection
- Dual Motor parameter table
- NEMA 1, 12 or 4, Open Chassis
- Saflink compatible



MONITOR PANEL



SAFLINK™ is an innovative tool designed for easier programming and troubleshooting of Saftronics drives.

Please visit our Web site at www.saftronics.com and try out a demo -version.

STATUS & FAULT DIAGNOSES

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Fort Myers, FL 33905
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www.saftronics.com

GP10

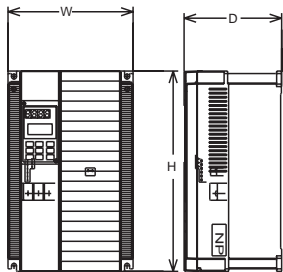
The Choice for General Purpose Applications



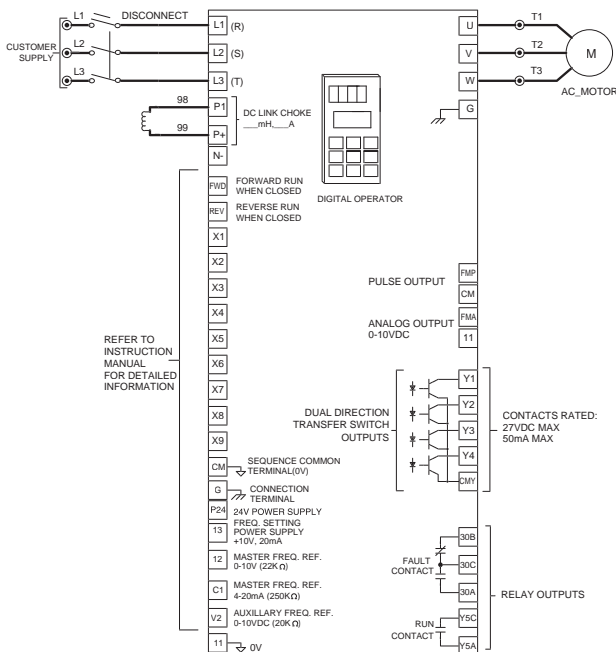
RATINGS & DIMENSIONS

| NORMAL DUTY | | | | | | | | | | | | | | | |
|-------------|------|--------|-------------------|------------------------|-------|------|--------------|-------|--------|------|-------------------|------------------------|-------|------|--------------|
| VOLT | HP | AMPS | PART NUMBER GP10- | DIMENSIONS (in inches) | | | WEIGHT (lbs) | VOLT | HP | AMPS | PART NUMBER GP10- | DIMENSIONS (in inches) | | | WEIGHT (lbs) |
| | | | | W | H | D | | | | | | W | H | D | |
| 230 V | 0.25 | 1.5 | 2F25-1 | 4.33 | 10.24 | 5.12 | 4.8 | 460 V | 0.5 | 1.5 | 4F50-1 | 4.33 | 10.24 | 5.12 | 4.8 |
| | 0.5 | 3 | 2F50-1 | 4.33 | 10.24 | 5.12 | 4.8 | | 1 | 2.5 | 4001-1 | 4.33 | 10.24 | 5.71 | 5.5 |
| | 1 | 5 | 2001-1 | 4.33 | 10.24 | 5.71 | 5.5 | | 2 | 3.7 | 4002-1 | 5.91 | 10.24 | 5.71 | 8.4 |
| | 2 | 8 | 2002-1 | 5.91 | 10.24 | 5.71 | 8.4 | | 3 | 5.5 | 4003-1 | 5.91 | 10.24 | 5.71 | 8.4 |
| | 3 | 11 | 2003-1 | 5.91 | 10.24 | 5.71 | 8.4 | | 5 | 9 | 4005-1 | 5.91 | 10.24 | 5.71 | 8.4 |
| | 5 | 17 | 2005-1 | 5.91 | 10.24 | 5.71 | 8.4 | | 7.5 | 12.5 | 4007-1 | 8.66 | 10.24 | 7.68 | 13.4 |
| | 7.5 | 22 | 2007-1 | 8.66 | 10.24 | 7.68 | 12.6 | | 10 | 16.5 | 4010-1 | 8.66 | 10.24 | 7.68 | 13.4 |
| | 10 | 29 | 2010-1 | 8.66 | 10.24 | 7.68 | 12.6 | | 15 | 23 | 4015-1 | 8.66 | 10.24 | 7.68 | 13.4 |
| | 15 | 42 | 2015-1 | 8.66 | 10.24 | 7.68 | 12.6 | | 20 | 30 | 4020-1 | 9.84 | 15.75 | 7.68 | 22.0 |
| | 20 | 55 | 2020-1 | 9.84 | 15.75 | 7.68 | 22 | | 25 | 37 | 4025-1 | 9.84 | 15.75 | 7.68 | 22.0 |
| | 25 | 67 | 2025-1 | 9.84 | 15.75 | 7.68 | 22 | | 30 | 44 | 4030-1 | 9.84 | 15.75 | 7.68 | 23.1 |
| | 30 | 78 | 2030-1 | 9.84 | 15.75 | 7.68 | 23.1 | | 40 | 60 | 4040-1 | 13.5 | 29.7 | 10.0 | 70 |
| | 40 | 115 | 2040-1 | 13.5 | 29.7 | 10.0 | 70 | | 50 | 75 | 4050-1 | 13.5 | 29.7 | 10.0 | 70 |
| | 50 | 145 | 2050-1 | 13.5 | 29.7 | 10.0 | 70 | | 60 | 91 | 4060-1 | 14.9 | 29.7 | 10.6 | 82 |
| | 60 | 180 | 2060-1 | 14.9 | 33.1 | 10.6 | 86 | | 75 | 112 | 4075-1 | 14.9 | 34.6 | 10.6 | 95 |
| 75 | 215 | 2075-1 | 14.9 | 38 | 10.6 | 106 | 100 | 150 | 4100-1 | 14.9 | 34.6 | 10.6 | 97 | | |
| 100 | 283 | 2100-1 | 14.9 | 38 | 10.6 | 110 | 125 | 176 | 4125-1 | 14.9 | 38 | 10.6 | 115 | | |
| 125 | 346 | 2125-1 | 21 | 41.3 | 11.2 | 172 | 150 | 210 | 4150-1 | 21 | 38 | 12.4 | 174 | | |
| 150 | 415 | 2150-1 | 26.9 | 50.4 | 14.2 | 282 | 200 | 253 | 4200-1 | 21 | 38 | 12.4 | 174 | | |
| | | | | | | | 250 | 304 | 4250-1 | 21 | 53.1 | 14.2 | 245 | | |
| | | | | | | | 300 | 377 | 4300-1 | 21 | 53.1 | 14.2 | 245 | | |
| | | | | | | | 350 | 415 | 4350-1 | 26.9 | 55.1 | 14.2 | 337 | | |
| | | | | | | | 400 | 485 | 4400-1 | 26.9 | 55.1 | 14.2 | 337 | | |
| | | | | | | | 450 | 520 | 4450-1 | 26.9 | 55.1 | 14.2 | 337 | | |
| | | | | | | | 500 | 585 | 4500-1 | 26.9 | 57.1 | 17.7 | 562 | | |
| | | | | | | | 600 | 740 | 4600-1 | 26.9 | 57.1 | 17.7 | 562 | | |
| | | | | | | | 700 | 840 | 4700-1 | 34.6 | 57.1 | 17.7 | 804 | | |
| | | | | | | | 800 | 960 | 4800-1 | 34.6 | 57.1 | 17.7 | 804 | | |

| HEAVY DUTY | | | | | | | | | | | | | | | |
|------------|------|--------|-------------------|------------------------|-------|------|--------------|-------|--------|------|-------------------|------------------------|-------|------|--------------|
| VOLT | HP | AMPS | PART NUMBER GP10- | DIMENSIONS (in inches) | | | WEIGHT (lbs) | VOLT | HP | AMPS | PART NUMBER GP10- | DIMENSIONS (in inches) | | | WEIGHT (lbs) |
| | | | | W | H | D | | | | | | W | H | D | |
| 230 V | 0.25 | 1.5 | 2F25-1 | 4.33 | 10.24 | 5.12 | 4.8 | 460 V | 0.5 | 1.5 | 4F50-1 | 4.33 | 10.24 | 5.12 | 4.8 |
| | 0.5 | 3 | 2F50-1 | 4.33 | 10.24 | 5.71 | 4.8 | | 1 | 2.5 | 4001-1 | 4.33 | 10.24 | 5.71 | 5.5 |
| | 1 | 5 | 2001-1 | 5.91 | 10.24 | 5.71 | 5.5 | | 2 | 3.7 | 4002-1 | 5.91 | 10.24 | 5.71 | 8.4 |
| | 2 | 8 | 2002-1 | 5.91 | 10.24 | 5.71 | 8.4 | | 3 | 5.5 | 4003-1 | 5.91 | 10.24 | 5.71 | 8.4 |
| | 3 | 11 | 2003-1 | 5.91 | 10.24 | 5.71 | 8.4 | | 5 | 9 | 4005-1 | 5.91 | 10.24 | 5.71 | 8.4 |
| | 5 | 17 | 2005-1 | 5.91 | 10.24 | 5.71 | 8.4 | | 7.5 | 13 | 4010-1 | 8.66 | 10.24 | 7.68 | 13.4 |
| | 7.5 | 25 | 2010-1 | 8.66 | 10.24 | 7.68 | 12.6 | | 10 | 18 | 4015-1 | 8.66 | 10.24 | 7.68 | 13.4 |
| | 10 | 33 | 2015-1 | 8.66 | 10.24 | 7.68 | 12.6 | | 15 | 24 | 4020-1 | 9.84 | 10.24 | 7.68 | 22.0 |
| | 15 | 46 | 2020-1 | 9.84 | 15.75 | 7.68 | 22 | | 20 | 30 | 4025-1 | 9.84 | 15.75 | 7.68 | 22.0 |
| | 20 | 59 | 2025-1 | 9.84 | 15.75 | 7.68 | 22 | | 25 | 39 | 4030-1 | 9.84 | 15.75 | 7.68 | 23.1 |
| | 25 | 74 | 2030-1 | 9.84 | 15.75 | 10.0 | 23.1 | | 30 | 45 | 4040-1 | 13.5 | 29.7 | 10.0 | 70 |
| | 30 | 87 | 2040-1 | 13.5 | 29.7 | 10.0 | 70 | | 40 | 60 | 4050-1 | 13.5 | 29.7 | 10.0 | 70 |
| | 40 | 115 | 2050-1 | 13.5 | 29.7 | 10.6 | 70 | | 50 | 75 | 4060-1 | 14.9 | 29.7 | 10.6 | 82 |
| | 50 | 145 | 2060-1 | 14.9 | 33.1 | 10.6 | 86 | | 60 | 91 | 4075-1 | 14.9 | 34.6 | 10.6 | 95 |
| | 60 | 180 | 2075-1 | 14.9 | 38 | 10.6 | 106 | | 75 | 112 | 4100-1 | 14.9 | 34.6 | 10.6 | 97 |
| 75 | 215 | 2100-1 | 14.9 | 38 | 10.6 | 110 | 100 | 150 | 4125-1 | 14.9 | 38 | 10.6 | 115 | | |
| 100 | 283 | 2125-1 | 21 | 41.3 | 11.2 | 172 | 125 | 176 | 4150-1 | 21 | 38 | 12.4 | 174 | | |
| 125 | 346 | 2150-1 | 26.9 | 50.4 | 14.2 | 282 | 150 | 210 | 4200-1 | 21 | 38 | 12.4 | 174 | | |
| | | | | | | | 200 | 253 | 4250-1 | 21 | 53.1 | 14.2 | 245 | | |
| | | | | | | | 250 | 304 | 4300-1 | 21 | 53.1 | 14.2 | 245 | | |
| | | | | | | | 300 | 377 | 4350-1 | 26.9 | 55.1 | 14.2 | 337 | | |
| | | | | | | | 350 | 415 | 4400-1 | 26.9 | 55.1 | 14.2 | 337 | | |
| | | | | | | | 400 | 485 | 4450-1 | 26.9 | 55.1 | 14.2 | 337 | | |
| | | | | | | | 450 | 520 | 4500-1 | 26.9 | 57.1 | 17.7 | 562 | | |
| | | | | | | | 500 | 585 | 4600-1 | 26.9 | 57.1 | 17.7 | 562 | | |
| | | | | | | | 600 | 740 | 4700-1 | 34.6 | 57.1 | 17.7 | 804 | | |
| | | | | | | | 700 | 840 | 4800-1 | 34.6 | 57.1 | 17.7 | 804 | | |



TERMINAL LAYOUT



SPECIFICATIONS

| ITEM | RATINGS |
|-------------------------|--|
| Output Rating | 3-Phase, 200-230 V, 50/60 Hz, 380-480 V, 50/60 Hz |
| Voltage Fluctuation | +10%, -15% |
| Frequency Fluctuation | ±5% |
| Control Method | Sinusoidal PWM Control (V/F, Dynamic Torque Vector) |
| Frequency Control Range | Variable torque 0.1 to 120 Hz, Constant Torque 0.1- to 120 Hz |
| Accel/Decel Time | 0.1 to 3600.0 seconds - Independent |
| Braking Torque | 1/4 - 30 HP = 20%, 40 HP and higher = 15% |
| Overload | Normal Duty - 110% 1 Minute Heavy Duty - 150% 1 Minute |
| Carrier Frequency | 0.75 - 15 kHz - 75 HP or less 0.75 - 10 kHz - 100 HP or more |
| Keypad | Backlit LCD / English Language, LED Monitor Display with Copy Function |
| Ambient Temperature | -10°C to 50°C (+14°F to 122°F) |
| Storage Temperature | -25°C to 65°C (-13°F to 149°F) |
| Starting Torque | 200%, 30 Hp (ND) 25 HP (HD) and below, 180% 40 Hp (ND) 30 HP (HD) and above @ 1 Hz |
| Fuse Protection | Motor coasts to a stop at blown fuse |
| Ground Fault | Provided by electronic circuit |
| Power Charge | Charge LED stays on until voltage drops below 25 Vdc |
| Speed Control Accuracy | ±0.2% |

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To maintain maximum uptime and performance, Saftronics offers a 24 hour / 7 day per week toll free emergency support. The Saftronics technical support team is available for trouble shooting assistance as well as weekend and holiday shipment of repair parts.

P/N: 027-GP10B1
Rev: 06/2005



DRIVES FOR EVERY INDUSTRY

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