

GS31-22P0 Cut Sheet



DURApulse GS30 series AC high-performance drive, enclosed, 230 VAC, 2hp with 1-phase input, SVC, V/Hz, FOC, encoder or torque mode, C1 frame, RS-485, Modbus, 100kA SCCR. Optional communication, encoder and I/O modules available.

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/GS31-22P0>

Technical Specifications

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| Brand | DURApulse |
| Item | Drive |
| Controller Type | High-performance |
| Series | GS30 |
| Voltage Type | AC |
| Nominal Drive Input Voltage | 230 VAC |
| Nominal Drive Output Voltage | 230 VAC |
| Number of Input Phases | 1 |
| Number of Output Phases | 3 |
| Horsepower By Input Phase | 2hp with 1-phase input |
| Amperage Rating | 7.5A |
| Variable Torque Amperage Rating | 8.5A |
| Control Mode | SVC, V/Hz, FOC, encoder or torque |
| Safe Torque Off (STO) | Yes |
| Temperature Rating | -20 to 50 deg C |
| Enclosure Type | Enclosed |
| IP Rating | IP20 |
| Mounting | 35mm DIN rail, panel or wall |
| Frame Size | C1 |
| Dynamic Braking | Integrated dynamic braking unit |
| Communication Port and Connection Type(s) | <ul style="list-style-type: none"> • (1) RS-485 (RJ45) • (1) USB B |
| Port Protocol(s) | <ul style="list-style-type: none"> • Modbus RTU Slave • Modbus ASCII Slave |
| Port Speed(s) | up to 115.2k baud |
| Input Signal | 4-20 mA, voltage, potentiometer or pulse train input |
| Output Type | PWM output |
| Reverse Capability | Built-in |
| Internally Bypassed | No |
| Carrier Frequency Range | 2-15 kHz |
| Output Frequency Range | 0.1-599 Hz |

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| Number of Analog Input Channels | 2 |
| Number Of Input Channels | 2 |
| Analog Input Signal Type | Current/voltage |
| Number of Non-Isolated Analog Input Commons | 1 |
| Number of Points per Analog Input Common | 2 |
| Input Resolution | 12-bit |
| Input Current Signal Range | 0-20 mA, 4-20 mA |
| Input Voltage Signal Range | +/- 10 VDC |
| Number of Analog Output Channels | 1 |
| Number Of Output Channels | 1 |
| Analog Output Signal Type | Current/voltage |
| Number of Non-Isolated Analog Output Commons | 1 |
| Number of Points per Analog Output Common | 1 |
| Output Resolution | 10-bit |
| Output Current Signal Range | 0-20 mA and 4-20 mA |
| Output Voltage Signal Range | 0-10 VDC |
| Number of Discrete Input Points | 7 |
| Nominal Discrete Input Voltage | 24 VDC |
| Discrete Input Type | Sinking/sourcing |
| Number of Non-Isolated Discrete Input Commons | 2 |
| Number of Points per Discrete Input Common | 4 |
| Number of Discrete Output Points | 3 |

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| Nominal Discrete Output Voltage | 240 VAC and 30 VDC |
| Discrete Output Type | Relay/sinking/sourcing |
| Relay Configuration | (1) Form C (SPDT) relay |
| Number of Non-Isolated Discrete Output Commons | 1 |
| Number of Isolated Discrete Output Commons | 1 |
| Number of Points per Discrete Output Common | 2 |
| Load Current | 3A/point relay, 50 mA/point discrete |
| Fuse Type | User-supplied external fuse |
| Programming Language | Ladder |
| SCCR Rating | 100kA SCCR |
| Connector Type | Spring clamp terminals |
| For Use With | 3-phase induction and permanent magnet AC motors |
| Additional Information | Optional communication, encoder and I/O modules available |

Agency Approvals

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| UL Listed File # | E176972 |
| UL Recognized File # | E198015 |
| UL Hazardous File # | None |
| CE | View CE declarations |
| CSA File # | None |
| RoHS Status | Yes (See CE Doc) |
| EU REACH | View EU REACH document |

Dimensional Drawings



2D Drawing PDF Link:
<https://cdn.automationdirect.com/static/drawings/2d/GS31-22P0.pdf>
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