

# GS33-4020 Cut Sheet



DURApulse GS30 series AC high-performance drive, enclosed, 460 VAC, 20hp with 3-phase input, SVC, V/Hz, FOC, encoder or torque mode, E 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/GS33-4020>

## Technical Specifications

|  |   |
|--|---|
| <b>Brand</b>                                     | DURApulse   |
| <b>Item</b>                                      | Drive   |
| <b>Controller Type</b>                           | High-performance  |
| <b>Series</b>                                    | GS30  |
| <b>Voltage Type</b>                              | AC  |
| <b>Nominal Drive Input Voltage</b>               | 460 VAC   |
| <b>Nominal Drive Output Voltage</b>              | 460 VAC   |
| <b>Number of Input Phases</b>                    | 3   |
| <b>Number of Output Phases</b>                   | 3   |
| <b>Horsepower By Input Phase</b>                 | 20hp with 3-phase input   |
| <b>Amperage Rating</b>                           | 32A   |
| <b>Variable Torque Amperage Rating</b>           | 36A   |
| <b>Control Mode</b>                              | SVC, V/Hz, FOC, encoder or torque   |
| <b>Safe Torque Off (STO)</b>                     | Yes   |
| <b>Temperature Rating</b>                        | -20 to 50 deg C   |
| <b>Enclosure Type</b>                            | Enclosed  |
| <b>IP Rating</b>                                 | IP20  |
| <b>Mounting</b>                                  | Panel or wall   |
| <b>Frame Size</b>                                | E   |
| <b>Dynamic Braking</b>                           | Integrated dynamic braking unit   |
| <b>Communication Port and Connection Type(s)</b> | <ul style="list-style-type: none"><li>• (1) RS-485 (RJ45)</li><li>• (1) USB B</li></ul>         |
| <b>Port Protocol(s)</b>                          | <ul style="list-style-type: none"><li>• Modbus RTU Slave</li><li>• Modbus ASCII Slave</li></ul> |
| <b>Port Speed(s)</b>                             | up to 115.2k baud   |
| <b>Input Signal</b>                              | 4-20 mA, voltage, potentiometer or pulse train input  |
| <b>Output Type</b>                               | PWM output  |
| <b>Reverse Capability</b>                        | Built-in  |
| <b>Internally Bypassed</b>                       | No  |
| <b>Carrier Frequency Range</b>                   | 2-15 kHz  |
| <b>Output Frequency Range</b>                    | 0.1-599 Hz  |

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

# GS33-4020 Cut Sheet

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

## Agency Approvals

|                             |  |
|-----------------------------|--|
| <b>UL Listed File #</b>     | E176972                                |
| <b>UL Recognized File #</b> | E198015                                |
| <b>UL Hazardous File #</b>  | None                                   |
| <b>CE</b>                   | <a href="#">View CE declarations</a>   |
| <b>CSA File #</b>           | None                                   |
| <b>RoHS Status</b>          | Yes (See CE Doc)                       |
| <b>EU REACH</b>             | <a href="#">View EU REACH document</a> |

## Dimensional Drawings



2D Drawing PDF Link:  
<https://cdn.automationdirect.com/static/drawings/2d/GS33-4020.pdf>  
See store item page for other formats.