

# GS31-21P0 Cut Sheet



DURApulse GS30 series AC high-performance drive, enclosed, 230 VAC, 1hp with 1-phase input, SVC, V/Hz, FOC, encoder or torque mode, B2 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/GS31-21P0>

## 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>	230 VAC
<b>Nominal Drive Output Voltage</b>	230 VAC
<b>Number of Input Phases</b>	1
<b>Number of Output Phases</b>	3
<b>Horsepower By Input Phase</b>	1hp with 1-phase input
<b>Amperage Rating</b>	5A
<b>Variable Torque Amperage Rating</b>	5.2A
<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>	35mm DIN rail, panel or wall
<b>Frame Size</b>	B2
<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

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<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/GS31-21P0.pdf>  
See store item page for other formats.