

GS31-23P0 Cut Sheet



DURApulse GS30 series AC high-performance drive, enclosed, 230 VAC, 3hp with 1-phase input, SVC, V/Hz, FOC, encoder or torque mode, C1 frame, RS-485, integrated dynamic braking. 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/GS31-23P0>

Technical Specifications

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	3hp with 1-phase input
Amperage Rating	11A
Variable Torque Amperage Rating	12.5A
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
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

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

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/GS31-23P0.pdf>
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