

# ACN-42P0 Cut Sheet



IronHorse ACN series AC general purpose drive with disconnect, NEMA 4X, 460 VAC, 2hp with 3-phase input, 3/4hp with 1-phase input, SVC, V/Hz or torque mode, 2 frame, RS-485, Modbus, 100kA SCCR. Optional EtherNet/IP and Modbus TCP card available.

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



<https://www.automationdirect.com/pn/ACN-42P0>

## Technical Specifications

<b>Brand</b>	IronHorse
<b>Item</b>	Drive with disconnect
<b>Controller Type</b>	General purpose
<b>Series</b>	ACN
<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 and 1
<b>Number of Output Phases</b>	3
<b>Horsepower By Input Phase</b>	2hp with 3-phase input, 3/4hp with 1-phase input
<b>Amperage Rating</b>	4A with 3-phase input and 2.3A with 1-phase input
<b>Control Mode</b>	SVC, V/Hz or torque
<b>Safe Torque Off (STO)</b>	Yes
<b>Temperature Rating</b>	-10 to 40 deg C
<b>Enclosure Type</b>	NEMA 4X
<b>IP Rating</b>	IP66
<b>Mounting</b>	Panel or wall
<b>Frame Size</b>	2
<b>Dynamic Braking</b>	Integrated dynamic braking unit
<b>Communication Port and Connection Type(s)</b>	(1) RS-485 (twisted pair)
<b>Port Protocol(s)</b>	Modbus RTU Slave
<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>	1-15 kHz
<b>Output Frequency Range</b>	0.1-400 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>	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>	12-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>	5
<b>Nominal Discrete Input Voltage</b>	24 VDC
<b>Discrete Input Type</b>	Sinking/sourcing
<b>Number of Non-Isolated Discrete Input Commons</b>	1
<b>Number of Points per Discrete Input Common</b>	5
<b>Number of Discrete Output Points</b>	2

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<b>Nominal Discrete Output Voltage</b>	240 VAC and 24 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>	1
<b>Load Current</b>	1A/point relay, 150 mA/point discrete
<b>Fuse Type</b>	User-supplied external fuse
<b>Programming Language</b>	Function block
<b>SCCR Rating</b>	100kA SCCR
<b>Connector Type</b>	Screw terminals
<b>For Use With</b>	3-phase induction and permanent magnet motors
<b>Additional Information</b>	Optional EtherNet/IP and Modbus TCP card available

## Agency Approvals

<b>UL Listed File #</b>	198015
<b>UL Recognized File #</b>	None
<b>UL Hazardous File #</b>	None
<b>CE</b>	<a href="#">View CE declarations</a>
<b>CSA File #</b>	None
<b>RoHS Status</b>	Meets RoHS Chemical Restrictions - No CE (See RoHS Statement Below)
<b>EU REACH</b>	<a href="#">View EU REACH document</a>