

ACNND-4020 Cut Sheet



IronHorse ACN series AC general purpose drive, NEMA 4X, 460 VAC, 20hp with 3-phase input, 10hp with 1-phase input, SVC, V/Hz or torque mode, 4 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/ACNND-4020>

Technical Specifications

Brand	IronHorse
Item	Drive
Controller Type	General purpose
Series	ACN
Voltage Type	AC
Nominal Drive Input Voltage	460 VAC
Nominal Drive Output Voltage	460 VAC
Number of Input Phases	3 and 1
Number of Output Phases	3
Horsepower By Input Phase	20hp with 3-phase input, 10hp with 1-phase input
Amperage Rating	30A with 3-phase input and 18A with 1-phase input
Control Mode	SVC, V/Hz or torque
Safe Torque Off (STO)	Yes
Temperature Rating	-10 to 40 deg C
Enclosure Type	NEMA 4X
IP Rating	IP66
Mounting	Panel or wall
Frame Size	4
Dynamic Braking	Integrated dynamic braking unit
Communication Port and Connection Type(s)	(1) RS-485 (twisted pair)
Port Protocol(s)	Modbus RTU 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	1-15 kHz
Output Frequency Range	0.1-400 Hz
Number of Analog Input Channels	2

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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	4-20 mA
Input Voltage Signal Range	+/- 10 VDC
Number of Analog Output Channels	1
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Analog Output Signal Type	Current/voltage
Number of Non-Isolated Analog Output Commons	1
Number of Points per Analog Output Common	1
Output Resolution	12-bit
Output Current Signal Range	0-20 mA and 4-20 mA
Output Voltage Signal Range	0-10 VDC
Number of Discrete Input Points	5
Nominal Discrete Input Voltage	24 VDC
Discrete Input Type	Sinking/sourcing
Number of Non-Isolated Discrete Input Commons	1
Number of Points per Discrete Input Common	5
Number of Discrete Output Points	2
Nominal Discrete Output Voltage	240 VAC and 24 VDC

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

Agency Approvals

UL Listed File #	198015
UL Recognized File #	None
UL Hazardous File #	None
CE	View CE declarations
CSA File #	None
RoHS Status	Meets RoHS Chemical Restrictions - No CE (See RoHS Statement Below)
EU REACH	View EU REACH document