

# ES1-3A-C Cut Sheet



IronHorse ES1 series AC general purpose drive, open frame, 120 VAC and 230 VAC, 3/4 hp with 1-phase input, V/Hz mode, 1 frame.

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



<https://www.automationdirect.com/pn/ES1-3A-C>

## Technical Specifications

|  |                           |
|--|---------------------------|
| <b>Brand</b>                           | IronHorse                 |
| <b>Item</b>                            | Drive                     |
| <b>Controller Type</b>                 | General purpose           |
| <b>Series</b>                          | ES1                       |
| <b>Voltage Type</b>                    | AC                        |
| <b>Nominal Drive Input Voltage</b>     | 120 VAC and 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>       | 3/4 hp with 1-phase input |
| <b>Amperage Rating</b>                 | 3A                        |
| <b>Variable Torque Amperage Rating</b> | 3A                        |
| <b>Control Mode</b>                    | V/Hz                      |
| <b>Integrated EMI Filter</b>           | No                        |
| <b>Safe Torque Off (STO)</b>           | None                      |
| <b>Temperature Rating</b>              | -10 to +45 °C             |
| <b>Enclosure Type</b>                  | Open frame                |
| <b>IP Rating</b>                       | IP00                      |
| <b>Mounting</b>                        | Panel                     |
| <b>Frame Size</b>                      | 1                         |

|  |                             |
|--|-----------------------------|
| <b>Input Signal</b>                                | Potentiometer input         |
| <b>Output Type</b>                                 | PWM output                  |
| <b>Reverse Capability</b>                          | Field-install               |
| <b>Internally Bypassed</b>                         | No                          |
| <b>Carrier Frequency Range</b>                     | 8 kHz                       |
| <b>Output Frequency Range</b>                      | 0–120 Hz                    |
| <b>Number of Discrete Output Points</b>            | 1                           |
| <b>Nominal Discrete Output Voltage</b>             | 120 VAC and 30 VDC          |
| <b>Discrete Output Type</b>                        | Relay                       |
| <b>Relay Configuration</b>                         | (1) Form C (SPDT) relay     |
| <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                    |
| <b>Fuse Type</b>                                   | User-supplied external fuse |
| <b>Connector Type</b>                              | Spring clamp terminals      |
| <b>For Use With</b>                                | 3-phase induction motors    |

## Agency Approvals

|                             |                        |
|-----------------------------|------------------------|
| <b>UL Listed File #</b>     | E198015                |
| <b>UL Recognized File #</b> | None                   |
| <b>UL Hazardous File #</b>  | None                   |
| <b>CE</b>                   | None                   |
| <b>CSA File #</b>           | None                   |
| <b>RoHS Status</b>          | No                     |
| <b>EU REACH</b>             | View EU REACH document |

## Dimensional Drawings



2D Drawing PDF Link:  
<https://cdn.automationdirect.com/static/drawings/2d/ES1-3A-C.pdf>  
See store item page for other formats.