

## PRODUCT-DETAILS

# ACS150-01E-09A8-2

ACS150-01E-09A8-2 Pn 2,2kW, I2n 9,8A IP20



## General Information

|                         |                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Commercial Alias | ACS150-01E-09A8-2                                                                                                                                                                                                                                                                                                                                                                            |
| Product ID              | 68581991                                                                                                                                                                                                                                                                                                                                                                                     |
| ABB Type Designation    | ACS150-01E-09A8-2                                                                                                                                                                                                                                                                                                                                                                            |
| EAN                     | 6410038079352                                                                                                                                                                                                                                                                                                                                                                                |
| Catalog Description     | ACS150-01E-09A8-2 Pn 2,2kW, I2n 9,8A IP20                                                                                                                                                                                                                                                                                                                                                    |
| Long Description        | The ACS150 drives are designed to be incorporated into a wide variety of machines such as mixers, conveyors, fans or pumps. The ACS150 drives have an integrated user panel, potentiometer and a variety of features such as pre-defined connection macros, making drive selection and configuration easy. With an optional FlashDrop tool these drives can be configured quickly in volume. |

## Ordering

|                         |                                           |
|-------------------------|-------------------------------------------|
| Country of Origin       | China (CN)                                |
| Customs Tariff Number   | 85044085                                  |
| Invoice Description     | ACS150-01E-09A8-2 Pn 2,2kW, I2n 9,8A IP20 |
| Made To Order           | No                                        |
| Minimum Order Quantity  | 1 piece                                   |
| Order Multiple          | 1 piece                                   |
| Quote Only              | No                                        |
| Selling Unit of Measure | piece                                     |

## Dimensions

|                                |          |
|--------------------------------|----------|
| Product Net Weight             | 1.8 kg   |
| Product Net Depth / Length     | 142 mm   |
| Product Net Height             | 239 mm   |
| Product Net Width              | 105 mm   |
| Package Level 1 Depth / Length | 345 mm   |
| Package Level 1 Height         | 167 mm   |
| Package Level 1 Width          | 220 mm   |
| Package Level 1 Units          | 1 carton |

## Technical

|                                                 |                                                                                                                           |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Number of Phases                                | 1                                                                                                                         |
| Degree of Protection                            | IP20                                                                                                                      |
| Enclosure Type NEMA                             | Open Type                                                                                                                 |
| Frequency (f)                                   | 50/60 Hz                                                                                                                  |
| Input Voltage ( $U_{in}$ )                      | 200 ... 240 V                                                                                                             |
| Mounting Type                                   | Module for cabinet building                                                                                               |
| Number of Hardware Interfaces                   | Industrial Ethernet 0<br>PROFINET 0<br>RS-232 0<br>RS-422 0<br>RS-485 0<br>Serial TTY 0<br>USB 0<br>Parallel 0<br>Other 1 |
| Includes                                        | With control unit<br>Without optical interface<br>With PC connection                                                      |
| Analog Inputs                                   | 1                                                                                                                         |
| Analog Outputs                                  | 0                                                                                                                         |
| Number of Digital In/Outputs                    | 5/0                                                                                                                       |
| Output Current, Light-Overload Use ( $I_{LD}$ ) | 9.8 A                                                                                                                     |
| Output Current, Normal Use ( $I_n$ )            | 9.8 A                                                                                                                     |
| Output Power, Light-Overload Use ( $P_{LD}$ )   | 2.2 kW                                                                                                                    |
| Output Power, Normal Use ( $P_n$ )              | 2.2 kW                                                                                                                    |
| Apparent Power Output                           | 3.9 kV-A                                                                                                                  |
| Efficiency Level                                | IE2                                                                                                                       |
| Standby Loss                                    | 13 W                                                                                                                      |
| Complete Drive Module Efficiency (61800-9-2)    |                                                                                                                           |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Relative<br>Loss | Efficiency |
|----------------------------------------|------------------|------------------|------------|
| 90 / 100 %                             | 108 W            | 2.8 %            | 96.2 %     |
| 50 / 100 %                             | 91 W             | 2.3 %            | 94.4 %     |
| 0 / 100 %                              | 80 W             | 2.0 %            | 90.3 %     |
| 90 / 50 %                              | 72 W             | 1.8 %            | 95.4 %     |
| 50 / 50 %                              | 63 W             | 1.6 %            | 92.9 %     |
| 50 / 25 %                              | 52 W             | 1.3 %            | 89.3 %     |
| 0 / 50 %                               | 58 W             | 1.5 %            | 87.3 %     |
| 0 / 25 %                               | 49 W             | 1.3 %            | 80.8 %     |

|                     |                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Rating  | Maximum 40 °C                                                                                                                                                                   |
| Ecodesign Exemption | Energy efficiency data is not provided for the 1~230 V drives. The drives with one phase input are not in the scope of the EU ecodesign requirements (Regulation EU/2019/1781). |

Additional Information

|                   |                     |
|-------------------|---------------------|
| Product Main Type | ACS150              |
| Product Name      | Frequency converter |

Classifications

|                |                                        |
|----------------|----------------------------------------|
| Product Series | ACS150                                 |
| ETIM 7         | EC001857 - Frequency converter =< 1 kV |
| UNSPSC         | 39122001                               |

Environmental

|               |                                                            |
|---------------|------------------------------------------------------------|
| SCIP          | 24f7c7e2-1846-4797-b6f3-8f3ae8b418db Finland (FI)          |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Categories

Drives → Low Voltage AC Drives → Micro Drives → ACS150 - Micro Drive

