



PRODUCT-DETAILS

ACS180-04N-09A8-1

LV AC machinery drive module, IEC: Pn 2.2 kW, 9.8 A, 230 V, UL: Pld 3 Hp, 9.8 A, 230 V (ACS180-04N-09A8-1)



General Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Commercial Alias: | ACS180-04N-09A8-1                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product ID:              | 3AXD50000716388                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ABB Type Designation:    | ACS180-04N-09A8-1                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EAN:                     | 6438177648932                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Catalog Description:     | LV AC machinery drive module, IEC: Pn 2.2 kW, 9.8 A, 230 V, UL: Pld 3 Hp, 9.8 A, 230 V (ACS180-04N-09A8-1)                                                                                                                                                                                                                                                                                                                                     |
| Long Description:        | The ACS180 is a compact, robust, and adaptable variable speed drive (VSD) for applications such as pumps, fans, compressors, conveyors, winders and mixers. This easy-to-use compact VSD offers excellent performance and quality at superior value with all essential machinery application features embedded. And as a member of ABB's all-compatible drives portfolio, it shares the same architecture and user interfaces for ease of use. |
| Display Name:            | ACS180-04N-09A8-1                                                                                                                                                                                                                                                                                                                                                                                                                              |

Ordering

|                          |                                                                                                                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customs Tariff Number:   | 85044087                                                                                                                                                                                                                                                                                               |
| HS Code:                 | 850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters |
| Invoice Description:     | ACS180-04N-09A8-1 PN: 2.2 kW, IN: 9.8 A                                                                                                                                                                                                                                                                |
| Made To Order:           | Yes                                                                                                                                                                                                                                                                                                    |
| Minimum Order Quantity:  | 1 piece                                                                                                                                                                                                                                                                                                |
| Order Multiple:          | 1 piece                                                                                                                                                                                                                                                                                                |
| Quote Only:              | No                                                                                                                                                                                                                                                                                                     |
| Selling Unit of Measure: | piece                                                                                                                                                                                                                                                                                                  |

Dimensions

|                                 |                     |
|---------------------------------|---------------------|
| Product Net Weight:             | 1.24 kg<br>2.734 lb |
| Product Net Depth / Length:     | 143 mm<br>5.630 in  |
| Product Net Height:             | 220 mm<br>8.661 in  |
| Product Net Width:              | 70 mm<br>2.756 in   |
| Package Level 1 Depth / Length: | 225 mm<br>8.858 in  |
| Package Level 1 Height:         | 115 mm<br>4.528 in  |
| Package Level 1 Width:          | 220 mm<br>8.661 in  |
| Package Level 1 Units:          | 1 carton            |

Technical

| Operating Point<br>Frequency / Current |
|----------------------------------------|
| 0/25 %                                 |
| 0/50 %                                 |
| 0/100 %                                |
| 50/25 %                                |
| 50/50 %                                |
| 50/100 %                               |
| 90/50 %                                |
| 90/100 %                               |

|                       |           |
|-----------------------|-----------|
| Number of Phases:     | 1-phase   |
| Degree of Protection: | IP20      |
| Enclosure Type NEMA:  | Open Type |

|                                                             |                                                                                                                           |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Altitude:</b>                                            | 2000 m                                                                                                                    |
| <b>Operating Humidity (RH<sub>amb</sub>):</b>               | 5 ... 95                                                                                                                  |
| <b>Power Factor:</b>                                        | 0.98                                                                                                                      |
| <b>Sound dB (A):</b>                                        | 51.8 dB(A)                                                                                                                |
| <b>Multiple Battery Information:</b>                        | No battery / cell included                                                                                                |
| <b>Frequency (f):</b>                                       | 47 ... 63 Hz                                                                                                              |
| <b>Frame Size:</b>                                          | R1                                                                                                                        |
| <b>Input Voltage (U<sub>in</sub>):</b>                      | 200 ... 240 V                                                                                                             |
| <b>Mounting Type:</b>                                       | Module                                                                                                                    |
| <b>Communication Protocol:</b>                              | MODBUS                                                                                                                    |
| <b>Number of Hardware Interfaces:</b>                       | Industrial Ethernet 0<br>Other 1<br>Parallel 0<br>PROFINET 0<br>RS-232 0<br>RS-422 0<br>RS-485 1<br>Serial TTY 0<br>USB 0 |
| <b>Includes:</b>                                            | Control unit<br>PC connection                                                                                             |
| <b>Analog Inputs:</b>                                       | 2                                                                                                                         |
| <b>Analog Outputs:</b>                                      | 1                                                                                                                         |
| <b>Number of Digital In/Outputs:</b>                        | 4 / 2                                                                                                                     |
| <b>Output Current, Normal Use (I<sub>n</sub>):</b>          | 9.8 A                                                                                                                     |
| <b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b> | 9.3 A                                                                                                                     |
| <b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>     | 7.5 A                                                                                                                     |
| <b>Output Power, Normal Use (P<sub>n</sub>):</b>            | 2.2 kW                                                                                                                    |
| <b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>   | 2.2 kW                                                                                                                    |
| <b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>       | 1.5 kW                                                                                                                    |
| <b>Apparent Power Output:</b>                               | 3.9 kV·A                                                                                                                  |

## Technical UL

|                                                 |       |
|-------------------------------------------------|-------|
| <b>Output Current, Heavy-Duty Use (UL):</b>     | 7.5 A |
| <b>Output Current, Light-Overload Use (UL):</b> | 9.8 A |
| <b>Output Power, Heavy-Duty Use (UL):</b>       | 2 Hp  |
| <b>Output Power, Light-Overload Use (UL):</b>   | 3 Hp  |

## Certificates and Declarations

|                           |                 |
|---------------------------|-----------------|
| <b>REACH Date:</b>        | 20250905        |
| <b>REACH Declaration:</b> | 9AKK107992A7060 |

|                    |                                                                        |
|--------------------|------------------------------------------------------------------------|
| REACH Information: | True - contains substances > 0.1 mass percentage                       |
| RoHS Date:         | 20250106                                                               |
| RoHS Declaration:  | 3AXD10001117584                                                        |
| RoHS Information:  | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

Environmental

|                |                                                            |
|----------------|------------------------------------------------------------|
| SCIP:          | 030cdeeb-e61c-40db-b392-d77adebb2036 Finland               |
| WEEE Category: | 5. Small Equipment (No External Dimension More Than 50 cm) |

Categories

Products > Drives > Low Voltage AC Drives > Machinery Drives > ACS180 - Machinery Drive

