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 PRODUCT-DETAILS

## ACS180-04N-17A0-4

LV AC machinery drive module, IEC: Pn 7.5 kW, 17.0 A, 400 V, UL: Pld 10 Hp, 14.0 A, 460 V (ACS180-04N-17A0-4)




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**General Information**


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| <b>Global Commercial Alias:</b> | ACS180-04N-17A0-4  |
| <b>Product ID:</b>              | 3AXD50000814152  |
| <b>ABB Type Designation:</b>    | ACS180-04N-17A0-4  |
| <b>EAN:</b>                     | 6438177689904  |
| <b>Catalog Description:</b>     | LV AC machinery drive module, IEC: Pn 7.5 kW, 17.0 A, 400 V, UL: Pld 10 Hp, 14.0 A, 460 V (ACS180-04N-17A0-4)  |
| <b>Long Description:</b>        | 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. |
| <b>Display Name:</b>            | ACS180-04N-17A0-4  |

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**Ordering**


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| <b>Customs Tariff Number:</b>   | 850440   |
| <b>HS Code:</b>                 | 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 |
| <b>Invoice Description:</b>     | ACS180-04N-17A0-4 PN: 7.5 kW, IN: 17.0 A   |
| <b>Made To Order:</b>           | Yes  |
| <b>Minimum Order Quantity:</b>  | 1 piece  |
| <b>Order Multiple:</b>          | 1 piece  |
| <b>Quote Only:</b>              | No   |
| <b>Selling Unit of Measure:</b> | piece  |

### Dimensions

|  |                     |
|--|---------------------|
| <b>Product Net Weight:</b>             | 2.01 kg<br>4.431 lb |
| <b>Product Net Depth / Length:</b>     | 143 mm<br>5.630 in  |
| <b>Product Net Height:</b>             | 230 mm<br>9.055 in  |
| <b>Product Net Width:</b>              | 120 mm<br>4.724 in  |
| <b>Package Level 1 Depth / Length:</b> | 287 mm<br>11.299 in |
| <b>Package Level 1 Height:</b>         | 201 mm<br>7.913 in  |
| <b>Package Level 1 Width:</b>          | 176 mm<br>6.929 in  |
| <b>Package Level 1 Units:</b>          | 1 carton            |

### Technical

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Efficiency | Relative<br>Loss |
|--|------------------|------------|------------------|
| 0/25 %                                 | 69 W             | 90.0 %     | 0.6 %            |
| 0/50 %                                 | 88 W             | 93.2 %     | 0.7 %            |
| 0/100 %                                | 148 W            | 94.2 %     | 1.3 %            |
| 50/25 %                                | 74 W             | 94.6 %     | 0.6 %            |
| 50/50 %                                | 98 W             | 96.2 %     | 0.8 %            |
| 50/100 %                               | 176 W            | 96.6 %     | 1.5 %            |
| 90/50 %                                | 114 W            | 97.5 %     | 1.0 %            |
| 90/100 %                               | 220 W            | 97.6 %     | 1.9 %            |

|                              |           |
|------------------------------|-----------|
| <b>Number of Phases:</b>     | 3-phase   |
| <b>Degree of Protection:</b> | IP20      |
| <b>Enclosure Type NEMA:</b>  | 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>  | 62 dB(A)  |
| <b>Multiple Battery Information:</b>                        | No battery / cell included  |
| <b>Frequency (f):</b>                                       | 47 ... 63 Hz  |
| <b>Frame Size:</b>  | R2  |
| <b>Input Voltage (U<sub>in</sub>):</b>                      | 380 ... 480 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>          | 17.0 A  |
| <b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b> | 16.2 A  |
| <b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>     | 12.6 A  |
| <b>Output Power, Normal Use (P<sub>n</sub>):</b>            | 7.5 kW  |
| <b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>   | 7.5 kW  |
| <b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>       | 5.5 kW  |
| <b>Apparent Power Output:</b>                               | 12 kV·A   |
| <b>Efficiency Level:</b>                                    | IE2   |
| <b>Standby Loss:</b>  | 12 W  |
| <b>Temperature Rating:</b>                                  | Maximum 40 °C   |

## Technical UL

|   |        |
|---|--------|
| <b>Output Current, Light-Overload Use (UL):</b> | 14.0 A |
| <b>Output Current, Heavy-Duty Use (UL):</b>     | 11.0 A |
| <b>Output Power, Light-Overload Use (UL):</b>   | 10 Hp  |
| <b>Output Power, Heavy-Duty Use (UL):</b>       | 7.5 Hp |

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## Certificates and Declarations

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|---------------------------|--|
| <b>REACH Date:</b>        | 20260316   |
| <b>REACH Declaration:</b> | 9AKK107992A7060  |
| <b>REACH Information:</b> | True - contains substances > 0.1 mass percentage                       |
| <b>RoHS Date:</b>         | 20250106   |
| <b>RoHS Declaration:</b>  | 3AXD10001117584  |
| <b>RoHS Information:</b>  | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

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## Environmental

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|-----------------------|--|
| <b>SCIP:</b>          | c4c7e908-d15d-4601-993d-bf271f952213 Finland               |
| <b>WEEE Category:</b> | 5. Small Equipment (No External Dimension More Than 50 cm) |

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## Categories

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

