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 PRODUCT-DETAILS

## ACS580-01-018A-4

LV AC general purpose wall-mounted drive,  
IEC: Pn 7.5 kW, 17 A, 400 V (ACS580-01-018A-4)




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### General Information

|                         |                  |
|-------------------------|------------------|
| Global Commercial Alias | ACS580-01-018A-4 |
| Product ID              | 3AXD50000038959  |
| ABB Type Designation    | ACS580-01-018A-4 |
| EAN                     | 6438177459248    |

|                     |  |
|---------------------|--|
| Catalog Description | LV AC general purpose wall-mounted drive, IEC: Pn 7.5 kW, 17 A, 400 V (ACS580-01-018A-4) |
|---------------------|--|

The ACS580-01 is plug-in ready to control your compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and many other variable and constant torque applications, in a variety of light industries, including food and beverage, plastic, textile, material handling, and agriculture.

#### Long Description

All essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary. Versatile and straightforward settings menu and assistants enable fast setup, commissioning, use and maintenance, while rugged and robust design makes it a good fit for various environments. With the ACS580 drives you can easily take full control of your processes to comprehensively manage your plant. The wall-mounted ACS580-01 comes in IP21 enclosure as standard. Also, IP55 and flange mounting units are available.

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### Ordering

|                         |   |
|-------------------------|---|
| Country of Origin       | Romania (RO)<br>Finland (FI)<br>China (CN)  |
| Customs Tariff Number   | 85044086  |
| HS Code                 | 850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters |
| Invoice Description     | ACS580-01-018A-4 PN: 7.5 kW, IN: 17.0 A   |
| Made To Order           | Yes   |
| Minimum Order Quantity  | 1 piece   |
| Order Multiple          | 1 piece   |
| Quote Only              | No  |
| Selling Unit of Measure | piece   |

## Container Information

|              |                       |
|--------------|-----------------------|
| Gross Volume | 13.54 dm <sup>3</sup> |
|--------------|-----------------------|

## Dimensions

|                                |                        |
|--------------------------------|------------------------|
| Product Net Weight             | 6.6 kg<br>14.551 lb    |
| Product Net Depth / Length     | 228.50 mm<br>9.02 in   |
| Product Net Height             | 473.00 mm<br>18.62 in  |
| Product Net Width              | 125.00 mm<br>4.92 in   |
| Package Level 1 Depth / Length | 225.00 mm<br>8.858 in  |
| Package Level 1 Height         | 370.00 mm<br>14.567 in |
| Package Level 1 Width          | 621.00 mm<br>24.449 in |
| Package Level 1 Units          | 1 carton               |

## Technical

|                                  |   |
|----------------------------------|---|
| Number of Phases                 | 3   |
| Degree of Protection             | IP21  |
| Enclosure Type NEMA              | Type1   |
| Altitude                         | 1000 m<br>5 ... 95  |
| Sound dB (A)                     | 64 dB(A)  |
| Multiple Battery Information     | Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g   |
| Frequency (f)                    | 47.5 ... 63 Hz  |
| Frame Size                       | R2  |
| Input Voltage (U <sub>in</sub> ) | 380 ... 480 V   |
| Mounting Type                    | Wall-mounted  |
| Communication Protocol           | CAN<br>DeviceNet<br>EtherNet/IP<br>MODBUS<br>Other Bus Systems<br>PROFIBUS<br>PROFINET IO |

|   |   |
|---|---|
|   | TCP/IP  |
| Number of Hardware Interfaces                   | Industrial Ethernet 0<br>Other 2<br>Parallel 2<br>PROFINET 0<br>RS-232 0<br>RS-422 0<br>RS-485 1<br>Serial TTY 0<br>USB 1 |
| Includes  | Control unit<br>PC connection   |
| Analog Inputs                                   | 2   |
| Analog Outputs                                  | 2   |
| Number of Digital In/Outputs                    | 6 / 3   |
| Output Current, Heavy-Duty Use ( $I_{HD}$ )     | 12.6 A  |
| Output Current, Light-Overload Use ( $I_{LD}$ ) | 16.2 A  |
| Output Current, Normal Use ( $I_n$ )            | 17 A  |
| Output Power, Heavy-Duty Use ( $P_{HD}$ )       | 5.5 kW  |
| Output Power, Light-Overload Use ( $P_{LD}$ )   | 7.5 kW  |
| Output Power, Normal Use ( $P_n$ )              | 7.5 kW  |
| Apparent Power Output                           | 12 kV-A   |
| Efficiency Level                                | IE2   |
| Standby Loss                                    | 15 W  |
| Complete Drive Module Efficiency (61800-9-2)    |   |

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|-------------------------------------|---------------|------------|---------------|
| 0/25 %                              | 91 W          | 87.2 %     | 0.8 %         |
| 0/50 %                              | 114 W         | 91.4 %     | 1.0 %         |
| 0/100 %                             | 189 W         | 92.7 %     | 1.6 %         |
| 50/25 %                             | 96 W          | 93.1 %     | 0.8 %         |
| 50/50 %                             | 124 W         | 95.3 %     | 1.1 %         |
| 50/100 %                            | 210 W         | 96.0 %     | 1.8 %         |
| 90/50 %                             | 134 W         | 97.1 %     | 1.1 %         |
| 90/100 %                            | 240 W         | 97.4 %     | 2.0 %         |

|                    |                                 |
|--------------------|---------------------------------|
| Temperature Rating | Maximum 40 °C<br>Minimum -15 °C |
|--------------------|---------------------------------|

### Classifications

|        |  |
|--------|--|
| ETIM 8 | EC001857 - Frequency converter =< 1 kV |
| ETIM 9 | EC001857 - Frequency converter =< 1 kV |
| UNSPSC | 39122001                               |

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### Environmental

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|               |  |
|---------------|--|
| SCIP          | 4a4ed2db-43e7-4612-8e9c-3921e4acd08b Finland (FI)          |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

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### Additional Information

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|-------------------|---------------------|
| Product Main Type | ACS580-01           |
| Product Name      | Frequency converter |

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### Categories

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Drives → Low Voltage AC Drives → General Purpose Drives → ACS580-01 - Wall-mounted drive

