



PRODUCT-DETAILS

ACH580-01-03A4-4+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 1.1 kW, 3.3 A, 400 V, UL: Pld 1.5 Hp, 3.0 A (ACH580-01-03A4-4+B056)



| General Information     |   |
|-------------------------|---|
| Global Commercial Alias | ACH580-01-03A4-4+B056   |
| Product ID              | 3AXD50000038999   |
| ABB Type Designation    | ACH580-01-03A4-4+B056   |
| EAN                     | 6438177459545   |
| Catalog Description     | LV AC wall-mounted drive for HVAC, IEC: Pn 1.1 kW, 3.3 A, 400 V, UL: Pld 1.5 Hp, 3.0 A (ACH580-01-03A4-4+B056)  |
| Long Description        | ACH580 HVAC drive offering has all key features built-in to control fans, pumps and compressors, and more complex equipment like air-handling units and chillers, ensuring smooth, energy-efficient operation of your HVAC systems in normal and mission-critical situations. The built-in features significantly reduce installation time and the intuitive control panel with an HVAC-specific primary settings menu and help assistants makes startup, commissioning and operation easy. The optional Bluetooth® capability enables the commissioning and monitoring of the drive from a distance. The ACH580-01 comes in IP21 enclosure and can be installed on the wall as standard. Also, IP55 and flange mounting units are available. |

| Ordering              |  |
|-----------------------|--|
| Customs Tariff Number | 85044085   |
| HS Code               | 850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS |

|  |   |
|--|---|
| THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE<br>AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND<br>ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static<br>converters (for example, rectifiers) and inductors;Static converters |   |
| Invoice Description  | ACH580-01-03A4-4+B056 PN: 1.1 kW, IN: 3.3 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                | 4.8 kg<br>10.582 lb    |
| Product Net Depth /<br>Length     | 233.00 mm<br>9.173 in  |
| Product Net Height                | 403 mm<br>15.866 in    |
| Product Net Width                 | 128.00 mm<br>5.039 in  |
| Package Level 1 Depth /<br>Length | 225.00 mm<br>8.858 in  |
| Package Level 1 Height            | 370.00 mm<br>14.567 in |
| Package Level 1 Width             | 526.00 mm<br>20.709 in |
| Package Level 1 Units             | 1 carton               |

Certificates and Declarations

|                                   |  |
|-----------------------------------|--|
| Declaration of<br>Conformity - CE | 3AXD10001818627  |
| REACH Date                        | 20250320   |
| REACH Declaration                 | 9AKK107992A7060  |
| REACH Information                 | True - contains substances > 0.1 mass percentage                       |
| RoHS Date                         | 20240508   |
| RoHS Declaration                  | 3AXD10001818627  |
| RoHS Information                  | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

Technical

|                                  |   |
|----------------------------------|---|
| Number of Phases                 | 3-phase                                       |
| Degree of Protection             | IP55  |
| Enclosure Type NEMA              | Type12<br>95                                  |
| Multiple Battery<br>Information  | Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g |
| Frequency (f)                    | 47.5 ... 63 Hz                                |
| Frame Size                       | R1  |
| Input Voltage (U <sub>in</sub> ) | 380 ... 480 V                                 |
| Mounting Type                    | Wall-mounted                                  |
| Communication Protocol           | BACNET<br>CAN<br>DeviceNet<br>EtherNet/IP     |

|   |   |
|---|---|
|   | LON   |
|   | MODBUS  |
|   | Other Bus Systems   |
|   | PROFIBUS  |
|   | 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  | With control unit<br>Without optical interface<br>With PC connection  |
| Analog Inputs                                   | 2   |
| Analog Outputs                                  | 2   |
| Number of Digital In/Outputs                    | 6/3   |
| Output Current, Normal Use ( $I_n$ )            | 3.3 A   |
| Output Current, Light-Overload Use ( $I_{LD}$ ) | 3.1 A   |
| Output Current, Heavy-Duty Use ( $I_{HD}$ )     | 2.6 A   |
| Output Power, Normal Use ( $P_n$ )              | 1.1 kW  |
| Output Power, Light-Overload Use ( $P_{LD}$ )   | 1.1 kW  |
| Output Power, Heavy-Duty Use ( $P_{HD}$ )       | 0.8 kW  |
|   | 51 W  |
| Apparent Power Output                           | 2.3 kV·A  |
| Efficiency Level                                | IE2   |
| Standby Loss                                    | 14 W  |
| Complete Drive Module Efficiency (IEC61800-9-2) |   |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Efficiency | Relative<br>Loss |
|--|------------------|------------|------------------|
| 0/25 %                                 | 32 W             | 79.2 %     | 1.4 %            |
| 0/50 %                                 | 34 W             | 87.2 %     | 1.5 %            |
| 0/100 %                                | 41 W             | 91.4 %     | 1.8 %            |
| 50/25 %                                | 33 W             | 88.5 %     | 1.4 %            |
| 50/50 %                                | 36 W             | 93.1 %     | 1.6 %            |
| 50/100 %                               | 45 W             | 95.2 %     | 2.0 %            |
| 90/50 %                                | 39 W             | 95.7 %     | 1.7 %            |
| 90/100 %                               | 51 W             | 96.9 %     | 2.2 %            |

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

| Technical UL                            |        |
|---|--------|
| Output Current, Heavy-Duty Use (UL)     | 2.1 A  |
| Output Current, Light-Overload Use (UL) | 3.0 A  |
| Output Power, Light-Overload Use (UL)   | 1.5 Hp |

| External Classifications and Standards |  |
|--|--|
| ETIM 9                                 | EC001857 - Frequency converter =< 1 kV |
| UNSPSC                                 | 39122001                               |

| Environmental |  |
|---------------|--|
| SCIP          | 85773b93-5c45-45c8-a538-ebdaaf96ece Finland                |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

| Categories  |
|---|
| Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for HVAC → ACH580-01 - Wall-mounted drive for HVAC |

