



PRODUCT-DETAILS

ACH580-01-012A-4

LV AC wall-mounted drive for HVAC, UL: Pld 7.5 Hp, 12 A, 460 V (ACH580-01-012A-4)



| General Information     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Commercial Alias | ACH580-01-012A-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product ID              | 3AUA0000222366                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ABB Type Designation    | ACH580-01-012A-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EAN                     | 6438177507390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Catalog Description     | LV AC wall-mounted drive for HVAC, UL: Pld 7.5 Hp, 12 A, 460 V (ACH580-01-012A-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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 | 85044080                                                                                                          |
| 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     | ACH580-01-012A-4, PLd 7.5HP, I2LD 12A |
| 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         | 11 lb    |
| Product Net Depth / Length | 8.78 in  |
| Product Net Height         | 14.69 in |
| Product Net Width          | 4.92 in  |
| Package Level 1 Units      | 1 carton |

Technical

|                                                 |               |
|-------------------------------------------------|---------------|
| Number of Phases                                | 3-phase       |
| Degree of Protection                            | IP21          |
| Enclosure Type NEMA                             | Type1         |
| Frequency (f)                                   | 50/60 Hz      |
| Frame Size                                      | R1            |
| Input Voltage (U <sub>in</sub> )                | 440 ... 480 V |
| Mounting Type                                   | Wall-mounted  |
| Apparent Power Output                           | 10 kV·A       |
| Efficiency Level                                | IE2           |
| Standby Loss                                    | 15 W          |
| Complete Drive Module Efficiency (IEC61800-9-2) |               |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Relative<br>Loss | Efficiency |
|----------------------------------------|------------------|------------------|------------|
| 0 / 25 %                               | 66 W             | 0.7 %            | 88.9 %     |
| 0 / 50 %                               | 85 W             | 0.8 %            | 92.3 %     |
| 0 / 100 %                              | 149 W            | 1.5 %            | 93.2 %     |
| 50 / 25 %                              | 70 W             | 0.7 %            | 94.0 %     |
| 50 / 50 %                              | 93 W             | 0.9 %            | 95.8 %     |
| 50 / 100 %                             | 168 W            | 1.7 %            | 96.2 %     |
| 90 / 50 %                              | 102 W            | 1.0 %            | 97.4 %     |
| 90 / 100 %                             | 200 W            | 2.0 %            | 97.4 %     |

|                    |               |
|--------------------|---------------|
| Temperature Rating | Maximum 40 °C |
|--------------------|---------------|

Technical UL

|                                         |        |
|-----------------------------------------|--------|
| Output Current, Light-Overload Use (UL) | 12 A   |
| Output Power, Light-Overload Use (UL)   | 7.5 Hp |

| External Classifications and Standards |          |
|----------------------------------------|----------|
| UNSPSC                                 | 39122001 |

| Environmental |                                                            |
|---------------|------------------------------------------------------------|
| 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 |

