



PRODUCT-DETAILS

ACH580-01-033A-4+B063+F253

LV AC wall-mounted drive for HVAC, IEC: Pn 15 kW, 32 A, 400 V, UL: Pld 20 Hp, 27 A, 500 V (ACH580-01-033A-4+B063+F253)



| General Information      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Commercial Alias: | ACH580-01-033A-4+B063+F253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product ID:              | 3AXD50001109806                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ABB Type Designation:    | ACH580-01-033A-4+B063+F253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Catalog Description:     | LV AC wall-mounted drive for HVAC, IEC: Pn 15 kW, 32 A, 400 V, UL: Pld 20 Hp, 27 A, 500 V (ACH580-01-033A-4+B063+F253)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Long Description:        | Designed for harsh locations, the ACH580-01 Type 4X / IP66 drive can withstand unfriendly environments with ease. The drive is resistant to various weather conditions from the snows of winter to the heat of summer. Indoors, it is resistant to water spray, dirt and chemicals and is NSF 169 certified for food splash zones. This drive is ideal for food and beverage, agriculture, livestock applications and for coastal areas. 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. |
| Display Name:            | ACH580-01-033A-4+B063+F253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Ordering

|                                 |                                                                                                                                                                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Customs Tariff Number:</b>   | 85044080                                                                                                                                                                                                                                                                                               |
| <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>     | ACH580-01-033A-4+B063+F253                                                                                                                                                                                                                                                                             |
| <b>Made To Order:</b>           | No                                                                                                                                                                                                                                                                                                     |
| <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>         | 58 lb    |
| <b>Product Net Depth / Length:</b> | 11.4 in  |
| <b>Product Net Height:</b>         | 25.47 in |
| <b>Product Net Width:</b>          | 10.91 in |

## Technical

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Efficiency | Relative<br>Loss |
|----------------------------------------|------------------|------------|------------------|
| 0/25 %                                 | 162.0 W          | 87.8 %     | 0.6 %            |
| 0/50 %                                 | 205.0 W          | 91.7 %     | 0.8 %            |
| 0/100 %                                | 351.0 W          | 92.8 %     | 1.3 %            |
| 50/25 %                                | 175.0 W          | 93.3 %     | 0.7 %            |
| 50/50 %                                | 228.0 W          | 95.4 %     | 0.9 %            |
| 50/100 %                               | 404.0 W          | 95.9 %     | 1.5 %            |
| 90/50 %                                | 252.0 W          | 97.1 %     | 0.9 %            |
| 90/100 %                               | 492.0 W          | 97.2 %     | 1.7 %            |

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| <b>Number of Phases:</b>               | 3-phase                                       |
| <b>Degree of Protection:</b>           | IP66                                          |
| <b>Enclosure Type NEMA:</b>            | Type4X                                        |
| <b>Power Factor:</b>                   | 0.98                                          |
| <b>Multiple Battery Information:</b>   | Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g |
| <b>Frequency (f):</b>                  | 47.5 ... 63 Hz                                |
| <b>Input Voltage (U<sub>in</sub>):</b> | 380 ... 415 V                                 |
| <b>Mounting Type:</b>                  | Wall-mounted                                  |

|                                                                  |                                                                                                                           |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Communication Protocol:</b>                                   | BACNET<br>CAN<br>DeviceNet<br>EtherNet/IP<br>LON<br>MODBUS<br>Other Bus Systems<br>PROFIBUS<br>PROFINET IO<br>TCP/IP      |
| <b>Number of Hardware Interfaces:</b>                            | 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 |
| <b>Includes:</b>                                                 | With Control unit<br>With PC connection                                                                                   |
| <b>Analog Inputs:</b>                                            | 2                                                                                                                         |
| <b>Analog Outputs:</b>                                           | 2                                                                                                                         |
| <b>Number of Digital In/Outputs:</b>                             | 6 / 3                                                                                                                     |
| <b>Output Current, Normal Use (<math>I_n</math>):</b>            | 32 A                                                                                                                      |
| <b>Output Current, Light-Overload Use (<math>I_{LD}</math>):</b> | 30.4 A                                                                                                                    |
| <b>Output Current, Heavy-Duty Use (<math>I_{HD}</math>):</b>     | 24.6 A                                                                                                                    |
| <b>Output Power, Normal Use (<math>P_n</math>):</b>              | 15 kW                                                                                                                     |
| <b>Output Power, Light-Overload Use (<math>P_{LD}</math>):</b>   | 15 kW                                                                                                                     |
| <b>Output Power, Heavy-Duty Use (<math>P_{HD}</math>):</b>       | 11 kW                                                                                                                     |
| <b>Apparent Power Output:</b>                                    | 22.2 kV-A                                                                                                                 |
| <b>Efficiency Level:</b>                                         | IE2                                                                                                                       |
| <b>Standby Loss:</b>                                             | 16 W                                                                                                                      |
| <b>Temperature Rating:</b>                                       | Maximum 40 °C<br>Minimum -25 °C                                                                                           |

## Technical UL

**Output Current, Light-Overload Use (UL):** 27 A

**Output Power, Light-Overload Use (UL):** 20 Hp

## External Classifications and Standards

**ETIM 9:** EC001857 - Frequency converter =< 1 kV

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## Categories

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Products > Drives > Low Voltage AC Drives > Industry-Specific Drives > Drives for HVAC > ACH580-01 - Wall-mounted drive for HVAC

