



 PRODUCT-DETAILS

ACH580-01-088A-4+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 45 kW, 88 A, 400 V, UL: Pld 60 Hp, 77 A (ACH580-01-088A-4+B056)



General Information

| | |
|-------------------------|-----------------------|
| Global Commercial Alias | ACH580-01-088A-4+B056 |
| Product ID | 3AUA0000083602 |
| ABB Type Designation | ACH580-01-088A-4+B056 |
| EAN | 6438177306337 |

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|---------------------|--|
| Catalog Description | LV AC wall-mounted drive for HVAC, IEC: Pn 45 kW, 88 A, 400 V, UL: Pld 60 Hp, 77 A (ACH580-01-088A-4+B056) |
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| Long Description | <p>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.</p> |
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Ordering

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| Customs Tariff Number | 85044086 |
| 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 | ACH580-01-088A-4+B056 PN: 45 kW, IN: 88 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 | 29 kg 63.934 lb |
| Product Net Depth / Length | 320.00 mm 12.598 in |
| Product Net Height | 1023 mm 40.276 in |
| Product Net Width | 203.00 mm 7.992 in |
| Package Level 1 Depth / Length | 835.00 mm 32.874 in |
| Package Level 1 Height | 521.00 mm 20.512 in |
| Package Level 1 Width | 295.00 mm 11.614 in |
| Package Level 1 Units | 1 case |

Technical

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|----------------------------------|---|
| Number of Phases | 3-phase |
| Degree of Protection | IP55 |
| Enclosure Type NEMA | Type12 |
| Multiple Battery Information | 95 Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g |
| Frequency (f) | 47.5 ... 63 Hz |
| Frame Size | R5 |
| Input Voltage (U _{in}) | 380 ... 480 V |
| Mounting Type | Wall-mounted |
| Communication Protocol | BACNET CAN DeviceNet EtherNet/IP LON MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP |
| Number of Hardware Interfaces | Industrial Ethernet 0 Other 2 Parallel 2 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1 |

| Includes | With control unit |
|---|---|
| | Without optical interface With PC connection |
| Analog Inputs | 2 |
| Analog Outputs | 2 |
| Number of Digital In/Outputs | 6/3 |
| Output Current, Normal Use (I_n) | 88 A |
| Output Current, Light-Overload Use (I_{LD}) | 83 A |
| Output Current, Heavy-Duty Use (I_{HD}) | 72 A |
| Output Power, Normal Use (P_n) | 45 kW |
| Output Power, Light-Overload Use (P_{LD}) | 45 kW |
| Output Power, Heavy-Duty Use (P_{HD}) | 37 kW |
| Apparent Power Output | 1139 W |
| Efficiency Level | 61 kV-A |
| Standby Loss | IE2 |
| Complete Drive Module Efficiency (IEC61800-9-2) | 21 W |

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|--|------------------|------------|------------------|
| 0/25 % | 294 W | 91.9 % | 0.5 % |
| 0/50 % | 402 W | 94.1 % | 0.7 % |
| 0/100 % | 767 W | 94.3 % | 1.3 % |
| 50/25 % | 325 W | 95.5 % | 0.5 % |
| 50/50 % | 469 W | 96.6 % | 0.8 % |
| 50/100 % | 915 W | 96.6 % | 1.5 % |
| 90/50 % | 545 W | 97.8 % | 0.9 % |
| 90/100 % | 1139 W | 97.6 % | 1.9 % |

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|--------------------|---------------------------------|
| Temperature Rating | Maximum 40 °C Minimum -15 °C |
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Technical UL

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|---|-------|
| Output Current, Heavy-Duty Use (UL) | 65 A |
| Output Current, Light-Overload Use (UL) | 77 A |
| Output Power, Light-Overload Use (UL) | 60 Hp |

Certificates and Declarations

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|--------------------------------|-----------------|
| Declaration of Conformity - CE | 3AXD10001818627 |
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|-------------------|--|
| REACH Date | 20250905 |
| 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 |

Environmental

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|---------------|---|
| SCIP | 28daf65e-92a8-4810-9f9f-8a94b5b77014 Finland |
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |

External Classifications and Standards

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

Categories

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

