

PRODUCT-DETAILS

ACH580-01-430A-4

LV AC wall-mounted drive for HVAC, IEC: Pn
200 kW, 430 A (ACH580-01-430A-4)



General Information

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| Global Commercial Alias | ACH580-01-430A-4 |
| Product ID | 3ABD00045421-D |
| ABB Type Designation | ACH580-01-430A-4 |
| Catalog Description | LV AC wall-mounted drive for HVAC, IEC: Pn 200 kW, 430 A (ACH580-01-430A-4) |
| Long Description | <p>The 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 a 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 make 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 an IP21 enclosure and can be installed on the wall as standard. In addition, IP55 and flange mounting units are available.</p> |

Ordering

| | |
|------------------------|--------------------------------------|
| Country of Origin | China (CN) |
| Customs Tariff Number | 85044099 |
| Invoice Description | ACH580-01-430A-4 PN: 250kW, IN: 430A |
| Made To Order | No |
| Minimum Order Quantity | 1 piece |
| Order Multiple | 1 piece |

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|-------------------------|-------|
| Quote Only | No |
| Selling Unit of Measure | piece |

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|----------------------------|----------|
| Dimensions | |
| Product Net Weight | 98 kg |
| Product Net Depth / Length | 418 mm |
| Product Net Height | 955 mm |
| Product Net Width | 380 mm |
| Package Level 1 Units | 0 carton |

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| Technical | |
| Number of Phases | 3 |
| Degree of Protection | IP21 |
| Enclosure Type NEMA | Type1 |
| Frequency (f) | 47.5 ... 63 Hz |
| Frame Size | R9 |
| Input Voltage (U_{in}) | 380 ... 480 V |
| Mounting Type | Wall-mounted_NO UNIT\$ |
| Output Current, Heavy-Duty Use (I_{HD}) | 363 A |
| Output Current, Light-Overload Use (I_{LD}) | 400 A |
| Output Current, Normal Use (I_n) | 430 A |
| Output Power, Heavy-Duty Use (P_{HD}) | 200 kW |
| Output Power, Light-Overload Use (P_{LD}) | 200 kW |
| Output Power, Normal Use (P_n) | 200 kW |
| Efficiency Level | IE2 |
| Complete Drive Module Efficiency (61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Relative Loss | Efficiency |
|--|------------------|------------------|------------|
| 0 / 25 % | 1471 W | 0.5 % | 91.5 % |
| 0 / 50 % | 2121 W | 0.7 % | 93.6 % |
| 0 / 100 % | 4032 W | 1.4 % | 93.9 % |
| 50 / 25 % | 1615 W | 0.5 % | 95.4 % |
| 50 / 50 % | 2393 W | 0.8 % | 96.5 % |
| 50 / 100 % | 4676 W | 1.6 % | 96.5 % |
| 90 / 50 % | 2821 W | 0.9 % | 97.6 % |
| 90 / 100 % | 6072 W | 2.0 % | 97.5 % |

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| Additional Information | |
| Product Name | Frequency Converter |
| Classifications | |
| UNSPSC | 39122001 |
| Environmental | |
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |

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

