



 PRODUCT-DETAILS

ACQ580-01-088A-4+B056

LV AC wall-mounted drive for water and wastewater, IEC: Pn 45 kW, 88 A, 400 V (ACQ580-01-088A-4+B056)



General Information

| | |
|-------------------------|-----------------------|
| Global Commercial Alias | ACQ580-01-088A-4+B056 |
| Product ID | 3AXD50000034624 |
| ABB Type Designation | ACQ580-01-088A-4+B056 |
| EAN | 6438177410102 |

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|---------------------|---|
| Catalog Description | LV AC wall-mounted drive for water and wastewater, IEC: Pn 45 kW, 88 A, 400 V (ACQ580-01-088A-4+B056) |
|---------------------|---|

Long Description

The ACQ580-01 drives deliver innovative pump features for the water and wastewater industry, securing energy efficient flow of water and wastewater in your pumping solutions. This robust and compact wall-mounted drive has built-in pump application functionality such as sensorless flow calculation, multipump control, level control, soft pipe fill, dry run protection, quick ramps and a solution for keeping the impeller of the pump clean.

Usability is further enhanced with the intuitive Hand-Off-Auto control panel, the PC tool Drive composer and an optional Bluetooth® control panel. The built-in energy calculator visualizes the energy savings achieved with the use of the drive. The ACQ580-01 variant comes in IP21 enclosure as standard and can be installed on the wall. Also, IP55 and flange mounting units are available.

Ordering

| | |
|-------------------------|---|
| Country of Origin | Finland (FI) |
| Customs Tariff Number | 85044085 |
| HS Code | 850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters |
| Invoice Description | ACQ580-01-088A-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 mm 12.598 in |
| Product Net Height | 1023 mm 40.276 in |
| Product Net Width | 203 mm 7.992 in |
| Package Level 1 Depth / Length | 870 mm 34.25 in |
| Package Level 1 Height | 578 mm 22.76 in |
| Package Level 1 Width | 325 mm 12.80 in |
| Package Level 1 Units | 1 case |

Technical

| | |
|----------------------------------|---|
| Number of Phases | 3 |
| Degree of Protection | IP55 |
| Enclosure Type NEMA | Type12 |
| Altitude | 4000 m 5 ... 95 |
| Power Factor | 0.98 |
| Sound dB (A) | 63 dB(A) |
| Multiple Battery Information | 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 | CAN DeviceNet EtherNet/IP 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 | Control unit 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 | 61 kV·A |
| Efficiency Level | IE2 |
| Standby Loss | 21 W |
| Complete Drive Module Efficiency (61800-9-2) | |

| 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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External Classifications and Standards

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| ETIM 8 | EC001857 - Frequency converter =< 1 kV |
| ETIM 9 | EC001857 - Frequency converter =< 1 kV |
| UNSPSC | 39122001 |

Environmental

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

Additional Information

Product Name

Frequency converter

Categories

Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for Water → ACQ580-01 - Wall-mounted drive for water and wastewater

