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 PRODUCT-DETAILS

## ACQ580-01-089A-4+B056

LV AC wall-mounted drive for water and wastewater, IEC: Pn 45 kW, 89 A, 400 V (ACQ580-01-089A-4+B056)




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### General Information

Global Commercial Alias	ACQ580-01-089A-4+B056
Product ID	3AXD50001063153
ABB Type Designation	ACQ580-01-089A-4+B056
EAN	6438177708971

Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 45 kW, 89 A, 400 V (ACQ580-01-089A-4+B056)
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#### 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.

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### Ordering

Country of Origin	Finland (FI) United States (US)
Customs Tariff Number	850440
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACQ580-01-089A-4+B056 PN: 45 kW, IN: 89 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	23.00 kg 50.71 lb
Product Net Depth / Length	265 mm 10.433 in
Product Net Height	636 mm 25.039 in
Product Net Width	203 mm 7.992 in
Package Level 1 Depth / Length	794 mm 31.26 in
Package Level 1 Height	358 mm 14.09 in
Package Level 1 Width	278 mm 10.95 in
Package Level 1 Units	1 carton

## 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)	70 dB(A)
Multiple Battery Information	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R4
Input Voltage (U <sub>in</sub> )	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, Heavy-Duty Use ( $I_{HD}$ )	72 A
Output Current, Light-Overload Use ( $I_{LD}$ )	83 A
Output Current, Normal Use ( $I_n$ )	89 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	37 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	45 kW
Output Power, Normal Use ( $P_n$ )	45 kW
Apparent Power Output	62 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 %	301 W	91.8 %	0.5 %
0/50 %	405 W	94.1 %	0.7 %
0/100 %	751 W	94.4 %	1.2 %
50/25 %	329 W	95.5 %	0.5 %
50/50 %	459 W	96.7 %	0.7 %
50/100 %	867 W	96.8 %	1.4 %
90/50 %	510 W	97.9 %	0.8 %
90/100 %	1028 W	97.9 %	1.7 %

Temperature Rating Maximum 50 °C  
Minimum -15 °C

### Classifications

ETIM 8 EC001857 - Frequency converter =< 1 kV

### Environmental

WEEE Category 4. Large Equipment (Any External Dimension More Than 50 cm)

### Additional Information

Product Name

Frequency converter

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## Categories

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

