

## PRODUCT-DETAILS

# ACQ580-01-430A-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 250 kW, 430 A, 400 V (ACQ580-01-430A-4)



## General Information

Global Commercial Alias	ACQ580-01-430A-4
Product ID	3AXD50000034609
ABB Type Designation	ACQ580-01-430A-4
EAN	6438177409953

Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 250 kW, 430 A, 400 V (ACQ580-01-430A-4)
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Long Description	<p>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.</p>
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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	85044086
Invoice Description	ACQ580-01-430A-4 PN: 250 kW, IN: 430 A
Made To Order	No
Minimum Order Quantity	1 piece

Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Container Information

Gross Volume	151.692 dm³
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Dimensions

Product Net Weight	97 kg 213.849 lb
Product Net Depth / Length	418 mm 16.46 in
Product Net Height	955 mm 37.60 in
Product Net Width	380 mm 14.96 in
Package Level 1 Depth / Length	1145.00 mm 45.08 in
Package Level 1 Height	630.00 mm 24.80 in
Package Level 1 Width	485.00 mm 19.09 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m
	95
Power Factor	0.98
Sound dB (A)	68 dB(A)
Multiple Battery Information	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R9
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 ( $I_{HD}$ )	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 ( $P_n$ )	250 kW
Apparent Power Output	298 kV·A
Efficiency Level	IE2
Standby Loss	80 W
Complete Drive Module Efficiency (61800-9-2)	

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

Temperature Rating	Maximum 40 °C Minimum -15 °C
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Additional Information

Product Main Type	ACQ580-01
Product Name	Frequency converter

Classifications

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

Environmental

SCIP	67c5daab-da3d-4123-804b-53a83b6d9528 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

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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

