



PRODUCT-DETAILS

ACQ580-01-430A-4+B056

LV AC wall-mounted drive for water and wastewater, IEC: Pn 250 kW, 430 A (ACQ580-01-430A-4+B056)



General Information	
Global Commercial Alias	ACQ580-01-430A-4+B056
Product ID	3AXD50000034632
ABB Type Designation	ACQ580-01-430A-4+B056
EAN	6438177410188
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 250 kW, 430 A (ACQ580-01-430A-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	ACQ580-01-430A-4+B056 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	173.103 dm³
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Dimensions

Product Net Weight	103 kg 227.076 lb
Product Net Depth / Length	477 mm 18.780 in
Product Net Height	955 mm 37.598 in
Product Net Width	380 mm 14.961 in
Package Level 1 Depth / Length	1145 mm 45.079 in
Package Level 1 Height	630 mm 24.803 in
Package Level 1 Width	485 mm 19.094 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP55
Enclosure Type NEMA	Type12
	95
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
Communication Protocol	TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0
Includes	Control unit
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Heavy-Duty Use (I <sub>HD</sub> )	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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Classifications

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

Environmental

SCIP	d18b6fc2-582d-43fe-991a-760f8051bde1 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Additional Information

Product Main Type	ACQ580-01
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

