



PRODUCT-DETAILS

# ACQ580-01-12A7-4+B056

LV AC wall-mounted drive for water and wastewater, IEC: Pn 5.5 kW, 12.6 A (ACQ580-01-12A7-4+B056)



## General Information

Global Commercial Alias	ACQ580-01-12A7-4+B056
Product ID	3AXD50000039038
ABB Type Designation	ACQ580-01-12A7-4+B056
EAN	6438177459835

Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 5.5 kW, 12.6 A (ACQ580-01-12A7-4+B056)
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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.

Long Description

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	Romania (RO) Finland (FI) China (CN)
Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACQ580-01-12A7-4+B056 PN: 5.5 kW, IN: 12.6 A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

## Container Information

Gross Volume	12.019 dm <sup>3</sup>
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## Dimensions

Product Net Weight	4.8 kg 10.582 lb
Product Net Depth / Length	233 mm 9.173 in
Product Net Height	403 mm 15.866 in
Product Net Width	128 mm 5.039 in
Package Level 1 Depth / Length	225 mm 8.858 in
Package Level 1 Height	370 mm 14.567 in
Package Level 1 Width	526 mm 20.709 in
Package Level 1 Units	1 carton

## Technical

Number of Phases	3
Degree of Protection	IP55
Enclosure Type NEMA	Type12
Multiple Battery Information	95 Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R1
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-	9.4 A

Duty Use ( $I_{HD}$ )	
Output Current, Light-	12.0 A
Overload Use ( $I_{LD}$ )	
Output Current, Normal	12.6 A
Use ( $I_n$ )	
Output Power, Heavy-	4.0 kW
Duty Use ( $P_{HD}$ )	
Output Power, Light-	5.5 kW
Overload Use ( $P_{LD}$ )	
Output Power, Normal	5.5 kW
Use ( $P_n$ )	
Apparent Power Output	8.7 kV·A
Efficiency Level	IE2
Standby Loss	14 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	68 W	87.1 %	0.8 %
0/50 %	88 W	91.0 %	1.0 %
0/100 %	157 W	91.9 %	1.8 %
50/25 %	73 W	93.0 %	0.8 %
50/50 %	98 W	95.0 %	1.1 %
50/100 %	178 W	95.4 %	2.0 %
90/50 %	108 W	96.9 %	1.2 %
90/100 %	213 W	96.9 %	2.4 %

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	85773b93-5c45-45c8-a538-ebdaaf96ece Finland (FI)
WEEE Category	5. Small Equipment (No 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

