

## PRODUCT-DETAILS

# ACQ580-01-033A-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 15 kW, 32.0 A, 400 V (ACQ580-01-033A-4)



## General Information

Global Commercial Alias	ACQ580-01-033A-4
Product ID	3AXD50000039029
ABB Type Designation	ACQ580-01-033A-4
EAN	6438177459743
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 15 kW, 32.0 A, 400 V (ACQ580-01-033A-4)

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> <p>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.</p>
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## Ordering

Country of Origin	Romania (RO) Finland (FI) China (CN)
Customs Tariff Number	85044086
Invoice Description	ACQ580-01-033A-4 PN: 15.0 kW, IN: 32 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	22.779 dm³
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Dimensions

Product Net Weight	11.8 kg 26.015 lb
Product Net Depth / Length	229 mm 9.02 in
Product Net Height	490 mm 19.29 in
Product Net Width	203 mm 7.99 in
Package Level 1 Depth / Length	295.00 mm 11.61 in
Package Level 1 Height	390.00 mm 15.35 in
Package Level 1 Width	600.00 mm 23.62 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)	76 dB(A)
Multiple Battery Information	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R3
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 ( $I_{HD}$ )	24.6 A
Output Current, Light-Overload Use ( $I_{LD}$ )	30.4 A
Output Current, Normal Use ( $I_n$ )	32.0 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	11 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	15 kW
Output Power, Normal Use ( $P_n$ )	15 kW
Apparent Power Output	22 kV·A
Efficiency Level	IE2
Standby Loss	16 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	162 W	87.8 %	0.7 %
0/50 %	205 W	91.7 %	0.9 %
0/100 %	351 W	92.8 %	1.6 %
50/25 %	175 W	93.3 %	0.8 %
50/50 %	228 W	95.4 %	1.0 %
50/100 %	404 W	95.9 %	1.8 %
90/50 %	252 W	97.1 %	1.1 %
90/100 %	492 W	97.2 %	2.2 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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<b>Additional Information</b>	
Product Main Type	ACQ580-01
Product Name	Frequency converter

<b>Classifications</b>	
ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

<b>Environmental</b>	
SCIP	8e1cd225-4cd2-4db1-8a7b-419a51ce1ae3 Finland (FI)
WEEE Category	5. Small Equipment (No 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

