

## PRODUCT-DETAILS

# ACQ580-01-144A-2

LV AC wall-mounted drive for water and wastewater, IEC: Pn 37 kW, 144 A, 230 V (ACQ580-01-144A-2)



### General Information

Global Commercial Alias	ACQ580-01-144A-2
Product ID	3AXD50000418053
ABB Type Designation	ACQ580-01-144A-2
EAN	6438177591870
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 37 kW, 144 A, 230 V (ACQ580-01-144A-2)
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>

### Ordering

Country of Origin	United States (US) Finland (FI)
Customs Tariff Number	85044085
Invoice Description	ACQ580-01-144A-2 PN: 37 kW, IN: 144 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	67.602 dm³
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Dimensions

Product Net Weight	42.4 kg 93.476 lb
Product Net Depth / Length	369 mm 14.53 in
Product Net Height	727 mm 28.62 in
Product Net Width	252 mm 9.92 in
Package Level 1 Depth / Length	880.00 mm 34.65 in
Package Level 1 Height	580.00 mm 22.84 in
Package Level 1 Width	335.00 mm 13.19 in

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m 95
Power Factor	0.98
Sound dB (A)	67 dB(A)
Multiple Battery Information	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R6
Input Voltage (U <sub>in</sub> )	200 ... 240 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 ( $I_{HD}$ )	114 A
Output Current, Light-Overload Use ( $I_{LD}$ )	143 A
Output Current, Normal Use ( $I_n$ )	144 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	30 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	37 kW
Output Power, Normal Use ( $P_n$ )	37 kW
Apparent Power Output	57 kV·A
Efficiency Level	IE2
Standby Loss	22 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	479 W	86.7 %	0.8 %
0/50 %	663 W	90.0 %	1.2 %
0/100 %	1213 W	90.7 %	2.1 %
50/25 %	522 W	92.6 %	0.9 %
50/50 %	747 W	94.4 %	1.3 %
50/100 %	1433 W	94.5 %	2.5 %
90/50 %	900 W	96.1 %	1.6 %
90/100 %	1932 W	95.8 %	3.4 %

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	c9f22bb1-0f1d-4f56-a642-05f2b82ea395 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

