



 PRODUCT-DETAILS

ACQ580-01-106A-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 55 kW, 106 A, 400 V (ACQ580-01-106A-4)



General Information

Global Commercial Alias	ACQ580-01-106A-4
Product ID	3AXD50000034602
ABB Type Designation	ACQ580-01-106A-4
EAN	6438177409885

Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 55 kW, 106 A, 400 V (ACQ580-01-106A-4)
---------------------	---

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	Finland (FI)
Customs Tariff Number	85044086

HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACQ580-01-106A-4 PN: 55 kW, IN: 106 A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Dimensions

Product Net Weight	28.3 kg 62.391 lb
Product Net Depth / Length	295 mm 11.614 in
Product Net Height	732 mm 28.819 in
Product Net Width	203 mm 7.992 in
Package Level 1 Depth / Length	835 mm 32.874 in
Package Level 1 Height	521 mm 20.512 in
Package Level 1 Width	295 mm 11.614 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m 5 ... 95
Power Factor	0.98
Sound dB (A)	63 dB(A)
Multiple Battery Information	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R5
Input Voltage (U _{in})	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	6 / 3

In/Outputs

Output Current, Heavy-Duty Use (I_{HD})	87 A
Output Current, Light-Overload Use (I_{LD})	100 A
Output Current, Normal Use (I_n)	106 A
Output Power, Heavy-Duty Use (P_{HD})	45 kW
Output Power, Light-Overload Use (P_{LD})	55 kW
Output Power, Normal Use (P_n)	55 kW
Apparent Power Output	73 kV·A
Efficiency Level	IE2
Standby Loss	24 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	325 W	92.5 %	0.4 %
0/50 %	449 W	94.5 %	0.6 %
0/100 %	864 W	94.6 %	1.2 %
50/25 %	359 W	95.9 %	0.5 %
50/50 %	521 W	96.8 %	0.7 %
50/100 %	1023 W	96.9 %	1.4 %
90/50 %	606 W	97.9 %	0.8 %
90/100 %	1290 W	97.8 %	1.8 %

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

Classifications

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

Environmental

SCIP	24d7f559-8ddc-4469-93c7-ad912823d754 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Additional Information

Product Name	Frequency converter
--------------	---------------------

Categories

Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for water → ACQ580-01 - Wall-mounted drive for water and wastewater

