

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)

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	Finland (FI)
Customs Tariff Number	85044086
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

Container Information

Gross Volume	43.836 dm³
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Dimensions

Product Net Weight	28.3 kg 62.391 lb
Product Net Depth / Length	295 mm 11.61 in
Product Net Height	732 mm 28.82 in
Product Net Width	203 mm 7.99 in
Package Level 1 Depth / Length	835.00 mm 32.87 in
Package Level 1 Height	521.00 mm 20.51 in
Package Level 1 Width	295.00 mm 11.61 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)	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 In/Outputs	6 / 3
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
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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	24d7f559-8ddc-4469-93c7-ad912823d754 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

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

