

PRODUCT-DETAILS

ACQ580-01-213A-2+B056

LV AC wall-mounted drive for water and wastewater, IEC: Pn 55 kW, 213 A (ACQ580-01-213A-2+B056)



General Information

Global Commercial Alias	ACQ580-01-213A-2+B056
Product ID	3AXD50000418220
ABB Type Designation	ACQ580-01-213A-2+B056
EAN	6438177592044

Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 55 kW, 213 A (ACQ580-01-213A-2+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	Finland (FI)
Customs Tariff Number	850440
Invoice Description	ACQ580-01-213A-2+B056 PN: 55 kW, IN: 213 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	95.22 dm³
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Dimensions

Product Net Weight	56 kg 123.459 lb
Product Net Depth / Length	381 mm 15.000 in
Product Net Height	880.00 mm 34.646 in
Product Net Width	284.00 mm 11.181 in
Package Level 1 Depth / Length	992.00 mm 39.055 in
Package Level 1 Height	568.00 mm 22.362 in
Package Level 1 Width	400.00 mm 15.748 in

Technical

Number of Phases	3
Degree of Protection	IP55
Enclosure Type NEMA	Type12
	95
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R7
Input Voltage (U _{in})	200 ... 240 V
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	With control unit Without optical interface With PC connection

Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Heavy-Duty Use (I_{HD})	169 A
Output Current, Light-Overload Use (I_{LD})	211 A
Output Current, Normal Use (I_n)	213 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	85 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 %	642 W	87.8 %	0.8 %
0/50 %	912 W	90.7 %	1.1 %
0/100 %	1752 W	90.9 %	2.1 %
50/25 %	713 W	93.1 %	0.8 %
50/50 %	1066 W	94.5 %	1.3 %
50/100 %	2106 W	94.5 %	2.5 %
90/50 %	1310 W	96.2 %	1.5 %
90/100 %	2854 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	dc827d29-312d-433e-afb4-0816392e0848 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

