

PRODUCT-DETAILS

ACQ580-01-213A-2

LV AC wall-mounted drive for water and wastewater, IEC: Pn 55 kW, 213 A, 230 V (ACQ580-01-213A-2)



General Information

Global Commercial Alias	ACQ580-01-213A-2
Product ID	3AXD50000418077
ABB Type Designation	ACQ580-01-213A-2
EAN	6438177591894

Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 55 kW, 213 A, 230 V (ACQ580-01-213A-2)
---------------------	---

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	United States (US) Finland (FI)
Customs Tariff Number	85044085

Invoice Description	ACQ580-01-213A-2 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	92.47 dm³
--------------	-----------

Dimensions

Product Net Weight	54 kg 119.050 lb
Product Net Depth / Length	370 mm 14.57 in
Product Net Height	880 mm 34.65 in
Product Net Width	284 mm 11.18 in
Package Level 1 Depth / Length	992.00 mm 39.06 in
Package Level 1 Height	568.00 mm 22.36 in
Package Level 1 Width	400.00 mm 15.75 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	R7
Input Voltage (U _{in})	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})	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
--------------------	---------------------------------

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	cdfd6c1b-d797-41db-b2a0-2e3d5e5a1071 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

