PRODUCT-DETAILS

ACQ580-01-03A4-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 1.1 kW, 3.3 A, 400 V (ACQ580-01-03A4-4)



General Information

Global Commercial Alias	ACQ580-01-03A4-4
Product ID	3AXD50000039016
ABB Type Designation	ACQ580-01-03A4-4
EAN	6438177459668
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 1.1 kW, 3.3 A, 400 V (ACQ580-01-03A4-4)
Long Description	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. 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

Customs Tariff Number	85044085

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HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters
Invoice Description	ACQ580-01-03A4-4 PN: 1.1 kW, IN: 3.3 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	4.6 kg 10.1 lb
Product Net Depth / Length	223 mm 8.780 in
Product Net Height	373 mm 14.685 in
Product Net Width	125 mm 4.921 in
Package Level 1 Depth / Length	550 mm 21.65 in
Package Level 1 Height	325 mm 12.80 in
Package Level 1 Width	220 mm 8.66 in
Package Level 1 Units	1 carton

Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20250320
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Declaration	3AXD10001818627
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Technical

Number of Phases	3-phase
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m
	5 ... 95
Power Factor	0.98
Sound dB (A)	59 dB(A)
Multiple Battery Information	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R1
Input Voltage (U_{in})	380 ... 480 V

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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, Normal Use (I_n)	3.3 A
Output Current, Light-Overload Use (I_{LD})	3.1 A
Output Current, Heavy-Duty Use (I_{HD})	2.6 A
Output Power, Normal Use (P_n)	1.1 kW
Output Power, Light-Overload Use (P_{LD})	1.1 kW
Output Power, Heavy-Duty Use (P_{HD})	0.8 kW
	51 W
Apparent Power Output	2.3 kV·A
Efficiency Level	IE2
Standby Loss	14 W

Complete Drive Module Efficiency (IEC61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	32 W	79.2 %	1.4 %
0/50 %	34 W	87.2 %	1.5 %
0/100 %	41 W	91.4 %	1.8 %
50/25 %	33 W	88.5 %	1.4 %
50/50 %	36 W	93.1 %	1.6 %
50/100 %	45 W	95.2 %	2.0 %
90/50 %	39 W	95.7 %	1.7 %
90/100 %	51 W	96.9 %	2.2 %

Temperature Rating	Maximum 40 °C Minimum -15 °C

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External Classifications and Standards

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

Environmental

SCIP	a5c3dd71-8ecd-44d9-98e4-45c53b6836e1 Finland
WEEE Category	5. Small Equipment (No 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



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