



PRODUCT-DETAILS

ACQ580-01-04A1-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 1.5 kW, 4.0 A, 400 V (ACQ580-01-04A1-4)



General Information

Global Commercial Alias	ACQ580-01-04A1-4
Product ID	3AXD50000039017
ABB Type Designation	ACQ580-01-04A1-4
EAN	6438177459675
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 1.5 kW, 4.0 A, 400 V (ACQ580-01-04A1-4)

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
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

<u>Invoice Description</u>	ACQ580-01-04A1-4 PN: 1.5 kW, IN: 4.0 A
<u>Made To Order</u>	Yes
<u>Minimum Order Quantity</u>	1 piece
<u>Order Multiple</u>	1 piece
<u>Quote Only</u>	No
<u>Selling Unit of Measure</u>	piece

Dimensions

<u>Product Net Weight</u>	4.6 kg 10.1 lb
<u>Product Net Depth / Length</u>	223 mm 8.780 in
<u>Product Net Height</u>	373 mm 14.685 in
<u>Product Net Width</u>	125 mm 4.921 in
<u>Package Level 1 Depth / Length</u>	550 mm 21.65 in
<u>Package Level 1 Height</u>	325 mm 12.80 in
<u>Package Level 1 Width</u>	220 mm 8.66 in
<u>Package Level 1 Units</u>	1 carton

Certificates and Declarations

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

Technical

<u>Number of Phases</u>	3-phase
<u>Degree of Protection</u>	IP21
<u>Enclosure Type NEMA</u>	Type1
<u>Altitude</u>	4000 m 5 ... 95
<u>Power Factor</u>	0.98
<u>Sound dB (A)</u>	59 dB(A)
<u>Multiple Battery Information</u>	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
<u>Frequency (f)</u>	47.5 ... 63 Hz
<u>Frame Size</u>	R1
<u>Input Voltage (U_{in})</u>	380 ... 480 V
<u>Mounting Type</u>	Wall-mounted
<u>Communication Protocol</u>	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)	4.0 A		
Output Current, Light- Overload Use (I_{LD})	3.8 A		
Output Current, Heavy- Duty Use (I_{HD})	3.3 A		
Output Power, Normal Use (P_n)	1.5 kW		
Output Power, Light- Overload Use (P_{LD})	1.5 kW		
Output Power, Heavy- Duty Use (P_{HD})	1.1 kW		
Apparent Power Output	60 W		
Efficiency Level	2.8 kV·A		
Standby Loss	IE2		
Complete Drive Module Efficiency (IEC61800-9-2)	14 W		
Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	34 W	81.0 %	1.2 %
0/50 %	38 W	88.2 %	1.4 %
0/100 %	47 W	91.8 %	1.7 %
50/25 %	36 W	89.6 %	1.3 %
50/50 %	40 W	93.6 %	1.5 %
50/100 %	52 W	95.5 %	1.9 %
90/50 %	44 W	96.0 %	1.6 %
90/100 %	60 W	97.0 %	2.2 %
Temperature Rating	Maximum 40 °C Minimum -15 °C		

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

