



PRODUCT-DETAILS

ACQ580-01-02A7-4

**LV AC wall-mounted drive for water and wastewater, IEC: Pn 0.75 kW, 2.6 A, 400 V
(ACQ580-01-02A7-4)**



General Information

Global Commercial Alias	ACQ580-01-02A7-4
Product ID	3AXD50000039015
ABB Type Designation	ACQ580-01-02A7-4
EAN	6438177459651
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 0.75 kW, 2.6 A, 400 V (ACQ580-01-02A7-4)

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	ACQ580-01-02A7-4 PN: 0.75 kW, IN: 2.6 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

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	2.6 A																																				
Use (I_n)																																					
Output Current, Light-	2.5 A																																				
Overload Use (I_{LD})																																					
Output Current, Heavy-	1.8 A																																				
Duty Use (I_{HD})																																					
Output Power, Normal	0.75 kW																																				
Use (P_n)																																					
Output Power, Light-	0.75 kW																																				
Overload Use (P_{LD})																																					
Output Power, Heavy-	0.6 kW																																				
Duty Use (P_{HD})	44 W																																				
Apparent Power Output	1.8 kV·A																																				
Efficiency Level	IE2																																				
Standby Loss	14 W																																				
Complete Drive Module Efficiency (IEC61800-9-2)																																					
<table border="1"> <thead> <tr> <th>Operating Point Frequency / Current</th><th>Absolute Loss</th><th>Efficiency</th><th>Relative Loss</th></tr> </thead> <tbody> <tr><td>0/25 %</td><td>29 W</td><td>76.5 %</td><td>1.6 %</td></tr> <tr><td>0/50 %</td><td>31 W</td><td>85.5 %</td><td>1.7 %</td></tr> <tr><td>0/100 %</td><td>36 W</td><td>90.5 %</td><td>2.0 %</td></tr> <tr><td>50/25 %</td><td>30 W</td><td>86.9 %</td><td>1.7 %</td></tr> <tr><td>50/50 %</td><td>33 W</td><td>92.2 %</td><td>1.8 %</td></tr> <tr><td>50/100 %</td><td>39 W</td><td>94.8 %</td><td>2.2 %</td></tr> <tr><td>90/50 %</td><td>35 W</td><td>95.2 %</td><td>1.9 %</td></tr> <tr><td>90/100 %</td><td>44 W</td><td>96.7 %</td><td>2.4 %</td></tr> </tbody> </table>		Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss	0/25 %	29 W	76.5 %	1.6 %	0/50 %	31 W	85.5 %	1.7 %	0/100 %	36 W	90.5 %	2.0 %	50/25 %	30 W	86.9 %	1.7 %	50/50 %	33 W	92.2 %	1.8 %	50/100 %	39 W	94.8 %	2.2 %	90/50 %	35 W	95.2 %	1.9 %	90/100 %	44 W	96.7 %	2.4 %
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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

