

PRODUCT-DETAILS

# ACQ580-01-05A7-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 2.2 kW, 5.6 A, 400 V (ACQ580-01-05A7-4)



## General Information

Global Commercial Alias	ACQ580-01-05A7-4
Product ID	3AXD50000039018
ABB Type Designation	ACQ580-01-05A7-4
EAN	6438177459682
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 2.2 kW, 5.6 A, 400 V (ACQ580-01-05A7-4)

Long Description	<p>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.</p> <p>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.</p>
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## Ordering

Country of Origin	Romania (RO) Finland (FI) China (CN)
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Customs Tariff Number	85044085
Invoice Description	ACQ580-01-05A7-4 PN: 2.2 kW, IN: 5.6 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	10.397 dm³
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Dimensions

Product Net Weight	4.60 kg 10.141 lb
Product Net Depth / Length	223 mm 8.78 in
Product Net Height	373 mm 14.69 in
Product Net Width	125 mm 4.92 in
Package Level 1 Depth / Length	225.00 mm 8.86 in
Package Level 1 Height	370.00 mm 14.57 in
Package Level 1 Width	526.00 mm 20.71 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m 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 <sub>in</sub> )	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, Heavy-Duty Use ( $I_{HD}$ )	4.0 A
Output Current, Light-Overload Use ( $I_{LD}$ )	5.3 A
Output Current, Normal Use ( $I_n$ )	5.6 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	1.5 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	2.2 kW
Output Power, Normal Use ( $P_n$ )	2.2 kW
Apparent Power Output	3.9 kV·A
Efficiency Level	IE2
Standby Loss	14 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	41 W	83.3 %	1.1 %
0/50 %	47 W	89.4 %	1.2 %
0/100 %	62 W	92.3 %	1.6 %
50/25 %	43 W	90.8 %	1.1 %
50/50 %	51 W	94.2 %	1.3 %
50/100 %	70 W	95.6 %	1.8 %
90/50 %	56 W	96.3 %	1.5 %
90/100 %	85 W	97.0 %	2.2 %

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	a5c3dd71-8ecd-44d9-98e4-45c53b6836e1 Finland (FI)
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

