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 PRODUCT-DETAILS

## ACQ580-01-09A5-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 4 kW, 9.4 A, 400 V (ACQ580-01-09A5-4)




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### General Information

Global Commercial Alias	ACQ580-01-09A5-4
Product ID	3AXD50000039020
ABB Type Designation	ACQ580-01-09A5-4
EAN	6438177459705

Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 4 kW, 9.4 A, 400 V (ACQ580-01-09A5-4)
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#### 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.

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### Ordering

Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACQ580-01-09A5-4 PN: 4.0 kW, IN: 9.4 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	20241203
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Information	3AXD10001818627
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Technical

Number of Phases	3
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 <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, Normal Use ( $I_n$ )	9.4 A
Output Current, Light-Overload Use ( $I_{LD}$ )	8.9 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	7.2 A
Output Power, Normal Use ( $P_n$ )	4 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	4 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	3 kW
	136 W
Apparent Power Output	6.5 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 %	62 W	84.7 %	1.0 %
0/50 %	74 W	90.0 %	1.1 %
0/100 %	105 W	92.1 %	1.6 %
50/25 %	66 W	91.6 %	1.0 %
50/50 %	81 W	94.5 %	1.2 %
50/100 %	118 W	95.6 %	1.8 %
90/50 %	88 W	96.6 %	1.4 %
90/100 %	136 W	97.1 %	2.1 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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### External Classifications and Standards

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

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### Environmental

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SCIP	a5c3dd71-8ecd-44d9-98e4-45c53b6836e1 Finland
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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### Categories

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Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for Water → ACQ580-01 - Wall-mounted drive for water and wastewater

