



 PRODUCT-DETAILS

ACQ580-01-025A-2

LV AC wall-mounted drive for water and wastewater, IEC: Pn 5.5 kW, 24.5 A, 230 V (ACQ580-01-025A-2)



General Information

Global Commercial Alias	ACQ580-01-025A-2
Product ID	3AXD50000417995
ABB Type Designation	ACQ580-01-025A-2
EAN	6438177591818

Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 5.5 kW, 24.5 A, 230 V (ACQ580-01-025A-2)
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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. 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

Customs Tariff Number	85044086
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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	ACQ580-01-025A-2 PN: 5.5 kW, IN: 24 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	6.6 kg 14.6 lb
Product Net Depth / Length	229 mm 9.016 in
Product Net Height	473 mm 18.622 in
Product Net Width	125 mm 4.921 in
Package Level 1 Depth / Length	644 mm 25.35 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

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)	64 dB(A)
Multiple Battery Information	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R2
Input Voltage (U _{in})	200 ... 240 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)	24.5 A
Output Current, Light-Overload Use (I_{LD})	24.2 A
Output Current, Heavy-Duty Use (I_{HD})	16.7 A
Output Power, Normal Use (P_n)	5.5 kW
Output Power, Light-Overload Use (P_{LD})	5.5 kW
Output Power, Heavy-Duty Use (P_{HD})	4 kW
	255 W
Apparent Power Output	9.8 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 %	82 W	86.3 %	0.8 %
0/50 %	103 W	90.6 %	1.1 %
0/100 %	171 W	92.1 %	1.8 %
50/25 %	88 W	92.4 %	0.9 %
50/50 %	116 W	94.7 %	1.2 %
50/100 %	202 W	95.4 %	2.1 %
90/50 %	135 W	96.5 %	1.4 %
90/100 %	255 W	96.7 %	2.6 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20250905
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

Environmental

Global Warming Potential GWP Total	Distribution (Module A4) 1 kg CO ₂ eq End of Life (Modules C1-C4) 15 kg CO ₂ eq Installation (Module A5) 5 kg CO ₂ eq Manufacturing (Modules A1-A3) 139 kg CO ₂ eq Total 2615 kg CO ₂ eq Use (Modules B1-B7) 2455 kg CO ₂ eq
SCIP	8e2f57c3-6325-4d67-b705-81477a8d922e Finland
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

External Classifications and Standards

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

Categories

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

