

PRODUCT-DETAILS

ACQ580-01-169A-4+B056

LV AC wall-mounted drive for water and wastewater, IEC: Pn 90 kW, 169 A (ACQ580-01-169A-4+B056)



General Information

Global Commercial Alias	ACQ580-01-169A-4+B056
Product ID	3ABD00045728-D
ABB Type Designation	ACQ580-01-169A-4+B056
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 90 kW, 169 A (ACQ580-01-169A-4+B056)

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 an IP21 enclosure as standard and can be installed on the wall. In addition, IP55 and flange mounting units are available.

Ordering

Country of Origin	China (CN)
Customs Tariff Number	85044099
Invoice Description	ACQ580-01-169A-4+B056 PN: 90kW, IN: 169A
Made To Order	No
Minimum Order Quantity	1 piece

Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Dimensions

Product Net Weight	54 kg
Product Net Depth / Length	370 mm
Product Net Height	880 mm
Product Net Width	284 mm
Package Level 1 Units	0 carton

Technical

Number of Phases	3
Degree of Protection	IP55
Enclosure Type NEMA	Type12
Frequency (f)	47.5 ... 63 Hz
Frame Size	R7
Input Voltage (U_{in})	380 ... 500 V
Mounting Type	Wall-mounted_NO UNIT\$
Output Current, Heavy-Duty Use (I_{HD})	145 A
Output Current, Light-Overload Use (I_{LD})	161 A
Output Current, Normal Use (I_n)	169 A
Output Power, Heavy-Duty Use (P_{HD})	75 kW
Output Power, Light-Overload Use (P_{LD})	90 kW
Output Power, Normal Use (P_n)	90 kW
Efficiency Level	IE2

Complete Drive Module
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	556 W	0.5 %	92.0 %
0 / 50 %	754 W	0.6 %	94.2 %
0 / 100 %	1317 W	1.1 %	94.8 %
50 / 25 %	611 W	0.5 %	95.6 %
50 / 50 %	860 W	0.7 %	96.7 %
50 / 100 %	1547 W	1.3 %	97.0 %
90 / 50 %	1013 W	0.9 %	97.8 %
90 / 100 %	2021 W	1.7 %	97.8 %

Additional Information	
Product Name	Frequency Converter
Classifications	
UNSPSC	39122001
Environmental	
WEEE Category	4. Large Equipment (Any 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	

