

## PRODUCT-DETAILS

# ACQ580-01-145A-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 75 kW, 145 A (ACQ580-01-145A-4)



### General Information

Global Commercial Alias	ACQ580-01-145A-4
Product ID	3ABD00045426-D
ABB Type Designation	ACQ580-01-145A-4
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 75 kW, 145 A (ACQ580-01-145A-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 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	ACQ580-01-145A-4 PN: 75kW, IN: 145A
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	45 kg
Product Net Depth / Length	369 mm
Product Net Height	727 mm
Product Net Width	252 mm
Package Level 1 Units	0 carton

## Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Frequency (f)	47.5 ... 63 Hz
Frame Size	R6
Input Voltage ( $U_{in}$ )	380 ... 480 V
Mounting Type	Wall-mounted_NO UNIT\$
Output Current, Heavy-Duty Use ( $I_{HD}$ )	105 A
Output Current, Light-Overload Use ( $I_{LD}$ )	138 A
Output Current, Normal Use ( $I_n$ )	145 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	55 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	75 kW
Output Power, Normal Use ( $P_n$ )	75 kW
Efficiency Level	IE2

Complete Drive Module  
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	505 W	0.5 %	91.5 %
0 / 50 %	692 W	0.7 %	93.8 %
0 / 100 %	1238 W	1.2 %	94.4 %
50 / 25 %	557 W	0.6 %	95.3 %
50 / 50 %	791 W	0.8 %	96.5 %
50 / 100 %	1470 W	1.5 %	96.7 %
90 / 50 %	946 W	0.9 %	97.7 %
90 / 100 %	1960 W	2.0 %	97.5 %

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

