

PRODUCT-DETAILS

ACQ580-01-046A-4

LV AC wall-mounted drive for water and wastewater, IEC: Pn 22 kW, 45 A (ACQ580-01-046A-4)



General Information	
Global Commercial Alias	ACQ580-01-046A-4
Product ID	3ABD50000039031
ABB Type Designation	ACQ580-01-046A-4
Catalog Description	LV AC wall-mounted drive for water and wastewater, IEC: Pn 22 kW, 45 A (ACQ580-01-046A-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. 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.</p>

Ordering	
Country of Origin	China (CN)
Customs Tariff Number	85044099
Invoice Description	ACQ580-01-046A-4 PN: 22kW, IN: 45A

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	14.9 kg
Product Net Depth / Length	228 mm
Product Net Height	454 mm
Product Net Width	203 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	R3
Input Voltage (U_{in})	380 ... 480 V
Mounting Type	Wall-mounted_NO UNIT\$
Output Current, Heavy-Duty Use (I_{HD})	37.7 A
Output Current, Light-Overload Use (I_{LD})	42.8 A
Output Current, Normal Use (I_n)	45 A
Output Power, Heavy-Duty Use (P_{HD})	18.5 kW
Output Power, Light-Overload Use (P_{LD})	22 kW
Output Power, Normal Use (P_n)	22 kW
Efficiency Level	IE2
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	200 W	0.6 %	89.2 %
0 / 50 %	260 W	0.8 %	92.5 %
0 / 100 %	459 W	1.5 %	93.3 %
50 / 25 %	216 W	0.7 %	94.1 %
50 / 50 %	290 W	0.9 %	95.8 %
50 / 100 %	534 W	1.7 %	96.1 %
90 / 50 %	328 W	1.1 %	97.3 %
90 / 100 %	672 W	2.2 %	97.3 %

Additional Information

Product NameFrequency Converter

Classifications

UNSPSC39122001

Environmental

WEEE CategoryProduct Not in WEEE Scope

Categories

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

