



PRODUCT-DETAILS

ACQ580-01-027A-4

LV AC wall-mounted drive for water and wastewater, UL: Pld 20 Hp, 27 A, 460 V (ACQ580-01-027A-4)

General Information

Global Commercial Alias	ACQ580-01-027A-4
Product ID	3AUA0000204859
ABB Type Designation	ACQ580-01-027A-4
EAN	6438177451181
Catalog Description	LV AC wall-mounted drive for water and wastewater, UL: Pld 20 Hp, 27 A, 460 V (ACQ580-01-027A-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 IP21 enclosure as standard and can be installed on the wall. Also, IP55 and flange mounting units are available.

Ordering

Country of Origin	Finland (FI) Romania (RO)
Customs Tariff Number	85044080
Invoice Description	ACQ580-01-027A-4, 480VAC, Pn 15HP, I2LD 21A, N1/IP21
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	26 lb
Product Net Depth /	9.01 in

Length

Product Net Height	19.29 in
Product Net Width	7.99 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Frequency (f)	50/60 Hz
Frame Size	R3
Input Voltage (U _{in})	440 ... 480 V
Mounting Type	Wall-mounting
Apparent Power Output	22 kV·A
Efficiency Level	IE2
Standby Loss	17 W

Complete Drive Module
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	137 W	0.6 %	89.6 %
0 / 50 %	171 W	0.8 %	93.1 %
0 / 100 %	282 W	1.3 %	94.2 %
50 / 25 %	147 W	0.7 %	94.4 %
50 / 50 %	188 W	0.8 %	96.2 %
50 / 100 %	322 W	1.4 %	96.7 %
90 / 50 %	205 W	0.9 %	97.7 %
90 / 100 %	386 W	1.7 %	97.8 %

Temperature Rating	Maximum 40 °C
--------------------	---------------

Additional Information

Product Name	AC Drive
--------------	----------

Classifications

UNSPSC	39122001
--------	----------

Environmental

WEEE Category	5. Small Equipment (No 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