

PRODUCT-DETAILS

ACQ580-31-026A-4

LV AC wall-mounted ultra-low harmonic drive
for water and wastewater, IEC: Pn 11.0 kW,
25.0 A, 400 V, UL: Pld 15 Hp, 23.0 A, 480 V
(ACQ580-31-026A-4)



General Information	
Global Commercial Alias	ACQ580-31-026A-4
Product ID	3AXD50000428755
ABB Type Designation	ACQ580-31-026A-4
EAN	6438177594239
Catalog Description	LV AC wall-mounted ultra-low harmonic drive for water and wastewater, IEC: Pn 11.0 kW, 25.0 A, 400 V, UL: Pld 15 Hp, 23.0 A, 480 V (ACQ580-31-026A-4)
Long Description	The ACQ580-31 drives deliver innovative pump features for the water and wastewater industry, securing energy efficient flow of water and wastewater in your pumping solutions. The ultra-low harmonic variant provides ultimate harmonic performance, reaching even less than 3 % THDi, and exceeding the requirements set by low harmonic standards and recommendations. The drive includes an active supply unit and integrated low harmonic line filter, meaning there is no need for external filters, multi-pulse arrangements or special transformers.
	Other features include output voltage boost and power factor correction. 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 ultra-low harmonic wall-mounted variant comes in IP21 enclosure as standard. Also, IP55 and flange mounting units are available.

Country of Origin	Finland (FI)
Customs Tariff Number	85044085
Invoice Description	ACQ580-31-026A-4 PN: 11.0 kW, IN: 25 A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Container Information

Gross Volume	35.922 dm³
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Dimensions

Product Net Weight	21.3 kg 46.959 lb
Product Net Depth / Length	354 mm 13.937 in
Product Net Height	495 mm 19.488 in
Product Net Width	205 mm 8.071 in
Package Level 1 Depth / Length	676 mm 26.614 in
Package Level 1 Height	423 mm 16.654 in
Package Level 1 Width	289 mm 11.378 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m
Power Factor	1.00
Sound dB (A)	57 dB(A)
Multiple Battery Information	Lithium Coin; CR2032; 220 mAh; 3 V; 1 pc; 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R3
Input Voltage (U _{in})	380 ... 480 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, Heavy-Duty Use (I_{HD})	17.0 A
Output Current, Light-Overload Use (I_{LD})	23.8 A
Output Current, Normal Use (I_n)	25.0 A
Output Power, Heavy-Duty Use (P_{HD})	7.5 kW
Output Power, Light-Overload Use (P_{LD})	11.0 kW
Output Power, Normal Use (P_n)	11.0 kW
Apparent Power Output	17 kV·A
Efficiency Level	IE2
Standby Loss	36 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	177 W	84.4 %	1.0 %
0/50 %	226 W	89.1 %	1.3 %
0/100 %	389 W	90.4 %	2.2 %
50/25 %	195 W	90.7 %	1.1 %
50/50 %	265 W	93.3 %	1.5 %
50/100 %	492 W	93.7 %	2.8 %
90/50 %	330 W	95.3 %	1.9 %
90/100 %	792 W	94.4 %	4.6 %

Temperature Rating	Maximum 50 °C Minimum -15 °C
Ecodesign Exemption	Energy efficiency data is not provided for the drive. The low-harmonic drives are exempt from the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.d).

Additional Information

Product Main Type	ACQ580-31
Product Name	Frequency converter

Classifications

ETIM 8	EC001857 - Frequency converter =< 1 kV
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ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental	
SCIP	a203cde5-2de1-48cb-b0e8-df4a15913519 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories	
Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for water → ACQ580-31 - Wall-mounted ultra-low harmonic drive for water and wastewater	
Drives → Services → Spares and Consumables → Parts	

