

PRODUCT-DETAILS

# ACQ580-07-0145A-4

LV AC cabinet-built drive for water and wastewater, IEC: Pn 75 kW, 145 A, 400 V, UL: Pld 100 Hp, 124 A, 480 V (ACQ580-07-0145A-4)



## General Information

Global Commercial Alias	ACQ580-07-0145A-4
Product ID	3AXD50000049036
ABB Type Designation	ACQ580-07-0145A-4
Catalog Description	LV AC cabinet-built drive for water and wastewater, IEC: Pn 75 kW, 145 A, 400 V, UL: Pld 100 Hp, 124 A, 480 V (ACQ580-07-0145A-4)
Long Description	<p>The ACQ580-07 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 cabinet-built 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 ready-made standalone cabinet-built ACQ580-07 variant comes in IP21 as standard. Also, IP42 and IP54 units are available.</p>

## Ordering

Country of Origin	Estonia (EE) Finland (FI)
Customs Tariff Number	85044085
Invoice Description	ACQ580-07-0145A-4 PN: 75 kW, IN: 145 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 620.742 dm³

Dimensions

Product Net Weight	210 kg 462.971 lb
Product Net Depth / Length	673 mm 26.496 in
Product Net Height	2145 mm 84.449 in
Product Net Width	430 mm 16.929 in
Package Level 1 Depth / Length	2520 mm 99.213 in
Package Level 1 Height	900 mm 35.433 in
Package Level 1 Width	820 mm 32.283 in

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
	5 to 95%
Sound dB (A)	67 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R6
Input Voltage (U <sub>in</sub> )	380 ... 480 V
Mounting Type	Cabinet-built
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 <sub>HD</sub> )	105 A
Output Current, Light-	138 A

Overload Use ( $I_{LD}$ )	
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
Apparent Power Output	100 kV·A
Temperature Rating	Maximum 40 °C Minimum 0 °C
Ecodesign Exemption	Energy efficiency data is not provided for this cabinet-based drive. Cabinet built drives, with already conform modules, are excluded from the scope of the EU <a href="#">ecodesign requirements (Regulation EU/2019/1781, §2.3.e)</a> .

Additional Information

Product Main Type	ACQ580-07
Product Name	Frequency converter

Classifications

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

Environmental

SCIP	7ec43305-639e-435c-abbc-783880675e8e Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for water → ACQ580-07 - Cabinet-built drive for water and wastewater

