

PRODUCT-DETAILS

ACQ580-07-0650A-4

LV AC cabinet-built drive for water and wastewater, IEC: Pn 355 kW, 650 A, 400 V, UL: Pld 500 Hp, 623 A, 480 V (ACQ580-07-0650A-4)



General Information

Global Commercial Alias	ACQ580-07-0650A-4
Product ID	3AXD50000050478
ABB Type Designation	ACQ580-07-0650A-4
Catalog Description	LV AC cabinet-built drive for water and wastewater, IEC: Pn 355 kW, 650 A, 400 V, UL: Pld 500 Hp, 623 A, 480 V (ACQ580-07-0650A-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.</p> <p>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	ACQ580-07-0650A-4 PN: 355 kW, IN: 650 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	1.243 m³
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Dimensions

Product Net Weight	410 kg 903.896 lb
Product Net Depth / Length	698 mm 27.480 in
Product Net Height	2145 mm 84.449 in
Product Net Width	830 mm 32.677 in
Package Level 1 Depth / Length	1100 mm 43.307 in
Package Level 1 Height	2550 mm 100.394 in
Package Level 1 Width	1430 mm 56.299 in

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
	5 to 95%
Sound dB (A)	72 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R10
Input Voltage (U _{in})	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_{HD})	477 A
Output Current, Light-Overload Use (I_{LD})	634 A
Output Current, Normal Use (I_n)	650 A
Output Power, Heavy-Duty Use (P_{HD})	250 kW
Output Power, Light-Overload Use (P_{LD})	355 kW
Output Power, Normal Use (P_n)	355 kW
Apparent Power Output	450 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 ecodesign requirements (Regulation EU/2019/1781, §2.3.e).

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	e531a9e8-f7f6-4242-8b63-c885daa80d86 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

