PRODUCT-DETAILS

ACS310-03E-09A7-4

LV AC drive module for pumps and fans, IEC: Pn 4 kW, 9.7 A (ACS310-03E-09A7-4)

General Information

Global Commercial Alias	ACS310-03E-09A7-4
Product ID	3AUA0000039632
ABB Type Designation	ACS310-03E-09A7-4
EAN	6410038785789
Catalog Description	LV AC drive module for pumps and fans, IEC: Pn 4 kW, 9.7 A (ACS310-03E-09A7-4)
Long Description	The ACS310 drives are designed for squared torque applications such as booster pumps and supply and return fans. The drive includes a powerful and beneficial set of features designed for pump and fan applications. These features include built-in PID controllers and pump and fan control (PFC) that varies the drive's performance in response to changes in pressure, flow or other external data.

Ordering

Country of Origin	China (CN) Finland (FI)
Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS310-03E-09A7-4 Pn 4, I2n 9,7A IP20

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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	1.8 kg
Product Net Depth / Length	217 mm
Product Net Height	344 mm
Product Net Width	132 mm
Package Level 1 Depth / Length	348 mm
Package Level 1 Height	130 mm
Package Level 1 Width	220 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Multiple Battery Information	No battery / cell included
Frequency (f)	50/60 Hz
Frame Size	R1
Input Voltage (U_{in})	380 ... 480 V
Mounting Type	Module for cabinet building
Communication Protocol	MODBUS
Number of Hardware Interfaces	Industrial Ethernet 0 PROFINET 0 RS-232 1 RS-422 0 RS-485 1 Serial TTY 0 USB 0 Parallel 0 Other 1
Includes	Without control unit Without optical interface With PC connection
Analog Inputs	2
Analog Outputs	1
Number of Digital In/Outputs	5/1
Output Current, Light-Overload Use (I_{LD})	8.8 A
Output Current, Normal Use (I_n)	9.7 A
Output Power, Light-Overload Use (P_{LD})	4 kW
Output Power, Normal Use (P_n)	4 kW

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Apparent Power Output	6.7 kV·A
Efficiency Level	IE2
Standby Loss	8 W

Complete Drive Module
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	68 W	1.0 %	84.0 %
0 / 50 %	79 W	1.2 %	89.7 %
0 / 100 %	109 W	1.6 %	92.1 %
50 / 25 %	71 W	1.1 %	91.2 %
50 / 50 %	86 W	1.3 %	94.3 %
50 / 100 %	123 W	1.8 %	95.6 %
90 / 50 %	96 W	1.4 %	96.4 %
90 / 100 %	143 W	2.1 %	97.1 %

Temperature Rating	Maximum 40 °C

Classifications

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

Environmental

SCIP	fe629aef-0cd8-4aa5-bc1a-660329359953 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Additional Information

Product Name	Frequency converter

Categories

Drives → Low Voltage AC Drives → General Purpose Drives → ACS310 - Drive module for pumps and fans

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