PRODUCT-DETAILS

ACS310-03E-41A8-4

LV AC drive module for pumps and fans, IEC: Pn 18.5 kW, 41.8 A (ACS310-03E-41A8-4)

General Information

Global Commercial Alias	ACS310-03E-41A8-4
Product ID	3AUA0000039637
ABB Type Designation	ACS310-03E-41A8-4
EAN	6410038785833
Catalog Description	LV AC drive module for pumps and fans, IEC: Pn 18.5 kW, 41.8 A (ACS310-03E-41A8-4)
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	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS310-03E-41A8-4 Pn 18,5, I2n 41,8A 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	5.4 kg
Product Net Depth / Length	423 mm
Product Net Height	243 mm
Product Net Width	260 mm
Package Level 1 Depth / Length	419 mm
Package Level 1 Height	240 mm
Package Level 1 Width	239 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	R4
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})	38 A
Output Current, Normal Use (I_n)	41.8 A
Output Power, Light-Overload Use (P_{LD})	18.5 kW
Output Power, Normal Use (P_n)	18.5 kW

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Apparent Power Output	29 kV·A
Efficiency Level	IE2
Standby Loss	12 W

Complete Drive Module
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	219 W	0.8 %	87.5 %
0 / 50 %	279 W	1.0 %	91.4 %
0 / 100 %	486 W	1.7 %	92.4 %
50 / 25 %	233 W	0.8 %	93.2 %
50 / 50 %	308 W	1.1 %	95.2 %
50 / 100 %	551 W	1.9 %	95.7 %
90 / 50 %	349 W	1.2 %	97.0 %
90 / 100 %	640 W	2.2 %	97.2 %

Temperature Rating	Maximum 40 °C

Classifications

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

Environmental

SCIP	8681dddd-c560-4b6e-9399-bb3de753aac5 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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