



PRODUCT-DETAILS

ACS380-042N-050A-4

LV AC machinery drive module, IEC: Pn 22 kW, 50.0 A, 400 V, UL: Pld 30 Hp, 42 A, 480 V (ACS380-042N-050A-4)



General Information	
Global Commercial Alias:	ACS380-042N-050A-4
Product ID:	3AXD50000136742
ABB Type Designation:	ACS380-042N-050A-4
EAN:	6438177598312
Catalog Description:	LV AC machinery drive module, IEC: Pn 22 kW, 50.0 A, 400 V, UL: Pld 30 Hp, 42 A, 480 V (ACS380-042N-050A-4)
Long Description:	The ACS380 machinery drive comes in several variants ensuring seamless integration into machines and connecting perfectly to automation systems. It's a great fit for industries such as food and beverage, material handling and textile. Typical applications include mixers, conveyors, EOT and tower cranes, extruders and textile machinery. With the integrated functional safety features, the ACS380 drive can be also part of the machine's safety system via PROFIsafe over PROFINET, ensuring the motor is safely stopped when required. In addition, the drive's software can be easily customized with adaptive programming to match any specific application requirements.
Display Name:	ACS380-042N-050A-4

Ordering	
Customs Tariff Number:	85044087
HS Code:	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters
Invoice Description:	ACS380-042N-050A-4 PN: 22 kW, IN: 50 A
Made To Order:	Yes
Minimum Order Quantity:	1 piece
Order Multiple:	1 piece
Quote Only:	No
Selling Unit of Measure:	piece

Dimensions	
Product Net Weight:	5.3 kg 11.685 lb
Product Net Depth / Length:	176 mm 6.929 in
Product Net Height:	240 mm 9.449 in
Product Net Width:	260 mm 10.236 in
Package Level 1 Depth / Length:	356 mm 14.016 in
Package Level 1 Height:	275 mm 10.827 in
Package Level 1 Width:	290 mm 11.417 in
Package Level 1 Units:	1 carton

Technical			
Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	223 W	89.1 %	0.6 %
0/50 %	285 W	92.6 %	0.8 %
0/100 %	491 W	93.5 %	1.4 %
50/25 %	237 W	94.2 %	0.7 %
50/50 %	313 W	95.9 %	0.9 %
50/100 %	558 W	96.3 %	1.6 %
90/50 %	352 W	97.4 %	1.0 %
90/100 %	640 W	97.6 %	1.8 %

Number of Phases:	3-phase
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Degree of Protection:	IP20
Enclosure Type NEMA:	Open Type
Altitude:	1000 m
Operating Humidity (RH _{amb}):	5 ... 95
Power Factor:	0.98
Sound dB (A):	69.00 dB(A)
Multiple Battery Information:	No battery / cell included
Frequency (f):	47.5 ... 63 Hz
Frame Size:	R4
Input Voltage (U _{in}):	380 ... 480 V
Mounting Type:	Module
Communication Protocol:	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces:	Industrial Ethernet 0 Other 3 Parallel 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 0
Includes:	Control unit PC connection
Analog Inputs:	0
Analog Outputs:	0
Number of Digital In/Outputs:	2 / 1
Output Current, Normal Use (I _n):	50.0 A
Output Current, Light-Overload Use (I _{LD}):	48.0 A
Output Current, Heavy-Duty Use (I _{HD}):	45.0 A
Output Power, Normal Use (P _n):	22 kW
Output Power, Light-Overload Use (P _{LD}):	22.0 kW
Output Power, Heavy-Duty Use (P _{HD}):	22.0 kW
Power Consumption (@P _{cons}):	672 W
Apparent Power Output:	35 kV-A
Efficiency Level:	IE2
Standby Loss:	38 W
Temperature Rating:	Maximum 50 °C

Technical UL

Output Current, Heavy-Duty Use (UL):	40 A
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Output Current, Light-Overload Use (UL):	42 A
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Output Current, Normal Use (UL):	42.0 A
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Output Power, Heavy-Duty Use (UL):	30 Hp
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Output Power, Light-Overload Use (UL):	30 Hp
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Certificates and Declarations

Declaration of Conformity - CE:	3AXD10000495941
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REACH Date:	20250905
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REACH Declaration:	9AKK107992A7060
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REACH Information:	True - contains substances > 0.1 mass percentage
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RoHS Date:	20230303
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RoHS Declaration:	3AXD10000495941
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RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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Environmental

SCIP:	45c22f64-f7c8-4b8a-aa62-2c724eae74a5 Finland
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WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)
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External Classifications and Standards

ETIM 9:	EC001857 - Frequency converter =< 1 kV
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ETIM 10:	EC001857 - Frequency converter =< 1 kV
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UNSPSC:	39122001
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Categories

Products > Drives > Low Voltage AC Drives > Machinery Drives > ACS380 - Machinery Drive

Parts & Services > Drives > Services > Spares and Consumables > Parts

