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 PRODUCT-DETAILS

## ACS380-042C-05A6-4

LV AC machinery drive module, IEC: Pn 2.2 kW,  
5.6 A, 400 V, UL: Pld 3 Hp, 4.8 A, 480 V  
(ACS380-042C-05A6-4)




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**General Information**

Global Commercial Alias	ACS380-042C-05A6-4
Product ID	3AXD50000031865
ABB Type Designation	ACS380-042C-05A6-4
Catalog Description	LV AC machinery drive module, IEC: Pn 2.2 kW, 5.6 A, 400 V, UL: Pld 3 Hp, 4.8 A, 480 V (ACS380-042C-05A6-4)
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.

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**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	ACS380-042C-05A6-4 PN: 2.2 kW, IN: 5.6 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	1.40 kg 3.086 lb
Product Net Depth / Length	176 mm 6.929 in
Product Net Height	223 mm 8.780 in
Product Net Width	70 mm 2.756 in
Package Level 1 Depth / Length	282 mm 11.102 in
Package Level 1 Height	273 mm 10.748 in
Package Level 1 Width	148 mm 5.827 in
Package Level 1 Units	1 carton

**Technical**

Number of Phases	3-phase
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	1000 m 5 ... 95
Power Factor	0.98
Sound dB (A)	63.10 dB(A)
Multiple Battery Information	No battery / cell included
Frequency (f)	47.5 ... 63 Hz
Frame Size	R1
Input Voltage (U <sub>in</sub> )	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 ( $I_n$ )	5.6 A
Output Current, Light-Overload Use ( $I_{LD}$ )	5.3 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	4.0 A
Output Power, Normal Use ( $P_n$ )	2.2 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	2.2 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	1.5 kW
	91 W
Apparent Power Output	3.9 kV·A
Efficiency Level	IE2
Standby Loss	15 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	45 W	82.1 %	1.2 %
0/50 %	52 W	88.4 %	1.3 %
0/100 %	71 W	91.2 %	1.8 %
50/25 %	47 W	90.1 %	1.2 %
50/50 %	55 W	93.7 %	1.4 %
50/100 %	79 W	95.1 %	2.0 %
90/50 %	61 W	96.1 %	1.6 %
90/100 %	91 W	96.8 %	2.3 %

Temperature Rating Maximum 50 °C

### Technical UL

Output Current, Heavy-Duty Use (UL)	3.5 A
Output Current, Light-Overload Use (UL)	4.8 A
Output Current, Normal Use (UL)	4.8 A
Output Power, Heavy-Duty Use (UL)	2 Hp
Output Power, Light-Overload Use (UL)	3 Hp

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### Certificates and Declarations

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

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### Environmental

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SCIP	df417ff4-f8a5-4aa8-b5b9-bb43623953af Finland
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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### External Classifications and Standards

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

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### Categories

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Drives → Low Voltage AC Drives → Machinery Drives → ACS380 - Machinery Drive  
 Drives → Services → Spares and Consumables → Parts

