



PRODUCT-DETAILS

ACS380-040S-045A-4

LV AC machinery drive module, IEC: Pn 22 kW, 45.0 A, 400 V, UL: Pld 30 Hp, 40 A, 480 V (ACS380-040S-045A-4)



General Information	
Global Commercial Alias	ACS380-040S-045A-4
Product ID	3AXD50000162215
ABB Type Designation	ACS380-040S-045A-4
EAN	6438177506621
Catalog Description	LV AC machinery drive module, IEC: Pn 22 kW, 45.0 A, 400 V, UL: Pld 30 Hp, 40 A, 480 V (ACS380-040S-045A-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.

Ordering

Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS380-040S-045A-4 PN: 22 kW, IN: 45 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

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	1000 m 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	MODBUS Other Bus Systems
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	2

Analog Outputs	1
Number of Digital In/Outputs	5 / 2
Output Current, Normal Use (I_n)	45.0 A
Output Current, Light-Overload Use (I_{LD})	42.8 A
Output Current, Heavy-Duty Use (I_{HD})	38.0 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})	18.5 kW
Apparent Power Output	31 kV-A
Efficiency Level	IE2
Standby Loss	38 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	191 W	89.6 %	0.6 %
0/50 %	248 W	92.8 %	0.8 %
0/100 %	438 W	93.6 %	1.4 %
50/25 %	203 W	94.4 %	0.7 %
50/50 %	272 W	96.1 %	0.9 %
50/100 %	495 W	96.4 %	1.6 %
90/50 %	306 W	97.5 %	1.0 %
90/100 %	570 W	97.7 %	1.8 %

Temperature RatingMaximum 50 °C

Technical UL

Output Current, Heavy-Duty Use (UL)	34 A
Output Current, Light-Overload Use (UL)	40 A
Output Current, Normal Use (UL)	40.0 A
Output Power, Heavy-Duty Use (UL)	25 Hp
Output Power, Light-Overload Use (UL)	30 Hp

External Classifications and Standards

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

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

Additional Information	
Product Name	Base unit

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

