



 PRODUCT-DETAILS

ACS180-04S-050A-4

LV AC machinery drive module, IEC: Pn 22 kW, 50.0 A, 400 V, UL: Pld 30 Hp, 42.0 A, 460 V (ACS180-04S-050A-4)



General Information

Global Commercial Alias	ACS180-04S-050A-4
Product ID	3AXD50000814558
ABB Type Designation	ACS180-04S-050A-4
EAN	6438177690283

Catalog Description	LV AC machinery drive module, IEC: Pn 22 kW, 50.0 A, 400 V, UL: Pld 30 Hp, 42.0 A, 460 V (ACS180-04S-050A-4)
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Long Description	The ACS180 is a compact and robust adaptable variable speed drive (VSD) for applications such as pumps, fans, compressors, conveyors, winders and mixers. This easy-to-use compact VSD offers excellent performance and quality at superior value with all essential machinery application features embedded. And as a member of ABB's all-compatible drives portfolio, it shares the same architecture and user interfaces for ease of use.
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Ordering

Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS180-04S-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	178.6 mm 7.031 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

Certificates and Declarations

Declaration of Conformity - CE	3AXD10001117584
REACH Date	20240905
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20230321
RoHS Information	3AXD10001117584
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	2000 m 5 ... 95
Power Factor	0.98
Sound dB (A)	69 dB(A)
Multiple Battery Information	No battery / cell included
Frequency (f)	47 ... 63 Hz
Frame Size	R4
Input Voltage (U _{in})	380 ... 480 V
Mounting Type	Module
Communication Protocol	MODBUS
Number of Hardware Interfaces	Industrial Ethernet 0 Other 1 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	4 / 2
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 kW
Output Power, Heavy-Duty Use (P_{HD})	22 kW
	679 W
Apparent Power Output	35 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 %	214 W	89.6 %	0.6 %
0/50 %	289 W	92.5 %	0.8 %
0/100 %	527 W	93.1 %	1.5 %
50/25 %	227 W	94.4 %	0.7 %
50/50 %	317 W	95.9 %	0.9 %
50/100 %	593 W	96.1 %	1.7 %
90/50 %	355 W	97.4 %	1.0 %
90/100 %	679 W	97.5 %	2.0 %

Temperature Rating Maximum 40 °C

Technical UL

Output Current, Heavy-Duty Use (UL)	42.0 A
Output Current, Light-Overload Use (UL)	42.0 A
Output Power, Heavy-Duty Use (UL)	30 Hp
Output Power, Light-Overload Use (UL)	30 Hp

External Classifications and Standards

ETIM 9

EC001857 - Frequency converter =< 1 kV

Environmental

SCIP

a7e9add0-620e-4316-8bd6-c358d91bc66b 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 → Machinery Drives → ACS180 - Machinery Drive

