

PRODUCT-DETAILS

# ACS180-04N-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 (ACS180-04N-050A-4)



General Information	
Global Commercial Alias	ACS180-04N-050A-4
Product ID	3AXD50000814534
ABB Type Designation	ACS180-04N-050A-4
EAN	6438177690269
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 (ACS180-04N-050A-4)
Long Description	The ACS180 is a compact, robust, and 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.

Ordering	
Country of Origin	Finland (FI)
Customs Tariff Number	850440
Invoice Description	ACS180-04N-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

Container Information

Gross Volume	11.17 dm³
--------------	-----------

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

Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	1000 m
Power Factor	0.98
Sound dB (A)	69.00 dB(A)
Frequency (f)	47 ... 63 Hz
Frame Size	R4
Input Voltage (U <sub>in</sub> )	380 ... 480 V
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, Heavy-Duty Use (I <sub>HD</sub> )	45.0 A
Output Current, Light-	48.0 A

Overload Use ( $I_{LD}$ )	
Output Current, Normal Use ( $I_n$ )	50.0 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	22 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	22 kW
Output Power, Normal Use ( $P_n$ )	22 kW
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
--------------------	---------------

Additional Information	
Product Main Type	ACS180-04N
Product Name	Frequency converter

Environmental	
SCIP	a7e9add0-620e-4316-8bd6-c358d91bc66b Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories	
------------	--

Drives → Low Voltage AC Drives → Machinery Drives → ACS180 - Machinery Drive

