



PRODUCT-DETAILS

ACS180-04S-033A-4

LV AC machinery drive module, IEC: Pn 15 kW, 32.0 A, 400 V, UL: Pld 20 Hp, 27.0 A, 460 V (ACS180-04S-033A-4)



General Information	
Global Commercial Alias	ACS180-04S-033A-4
Product ID	3AXD50000874316
ABB Type Designation	ACS180-04S-033A-4
EAN	6438177691204
Catalog Description	LV AC machinery drive module, IEC: Pn 15 kW, 32.0 A, 400 V, UL: Pld 20 Hp, 27.0 A, 460 V (ACS180-04S-033A-4)
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.

Ordering	
Country of Origin	China (CN) Finland (FI)
Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters

Invoice Description	ACS180-04S-033A-4 PN: 15.0 kW, IN: 32 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	3.3 kg 7.275 lb
Product Net Depth / Length	174 mm 6.850 in
Product Net Height	241 mm 9.488 in
Product Net Width	170 mm 6.693 in
Package Level 1 Depth / Length	248 mm 9.764 in
Package Level 1 Height	273 mm 10.748 in
Package Level 1 Width	250 mm 9.843 in
Package Level 1 Units	1 carton

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)	66 dB(A)
Multiple Battery Information	No battery / cell included
Frequency (f)	47 ... 63 Hz
Frame Size	R3
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, Heavy-	25.0 A

Duty Use (I_{HD})	
Output Current, Light-	30.5 A
Overload Use (I_{LD})	
Output Current, Normal	32.0 A
Use (I_n)	
Output Power, Heavy-	11 kW
Duty Use (P_{HD})	
Output Power, Light-	15 kW
Overload Use (P_{LD})	
Output Power, Normal	15 kW
Use (P_n)	
Apparent Power Output	22 kV·A
Efficiency Level	IE2
Standby Loss	23 W
Complete Drive Module	
Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	125 W	90.3 %	0.6 %
0/50 %	180 W	92.6 %	0.8 %
0/100 %	339 W	93.0 %	1.5 %
50/25 %	134 W	94.8 %	0.6 %
50/50 %	192 W	96.1 %	0.9 %
50/100 %	414 W	95.8 %	1.9 %
90/50 %	206 W	97.6 %	0.9 %
90/100 %	551 W	96.9 %	2.5 %

Temperature Rating	Maximum 40 °C
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Technical UL

Output Current, Heavy-Duty Use (UL)	21.0 A
Output Current, Light-Overload Use (UL)	27.0 A
Output Power, Heavy-Duty Use (UL)	15 Hp
Output Power, Light-Overload Use (UL)	20 Hp

Classifications

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

Environmental

SCIP	ce087935-c5d0-48c8-89ae-769efc3dfb30 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



Submitted by TECO Group