



 PRODUCT-DETAILS

ACS180-04S-038A-4

LV AC machinery drive module, IEC: Pn 18.5 kW, 38.0 A, 400 V, UL: Pld 25 Hp, 34.0 A, 460 V (ACS180-04S-038A-4)



General Information

Global Commercial Alias	ACS180-04S-038A-4
Product ID	3AXD50000814497
ABB Type Designation	ACS180-04S-038A-4
EAN	6438177690221
Catalog Description	LV AC machinery drive module, IEC: Pn 18.5 kW, 38.0 A, 400 V, UL: Pld 25 Hp, 34.0 A, 460 V (ACS180-04S-038A-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.
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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-038A-4 PN: 18.5 kW, IN: 38 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)	38.0 A
Output Current, Light-Overload Use (I_{LD})	36.0 A
Output Current, Heavy-Duty Use (I_{HD})	32.0 A
Output Power, Normal Use (P_n)	18.5 kW
Output Power, Light-Overload Use (P_{LD})	18.5 kW
Output Power, Heavy-Duty Use (P_{HD})	15 kW
Apparent Power Output	504 W
Efficiency Level	26 kV-A
Standby Loss	IE2
Complete Drive Module Efficiency (61800-9-2)	37 W

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	173 W	89.0 %	0.7 %
0/50 %	228 W	92.2 %	0.9 %
0/100 %	396 W	93.1 %	1.5 %
50/25 %	183 W	94.1 %	0.7 %
50/50 %	249 W	95.7 %	0.9 %
50/100 %	448 W	96.2 %	1.7 %
90/50 %	278 W	97.3 %	1.1 %
90/100 %	504 W	97.6 %	1.9 %

Temperature Rating Maximum 40 °C

Technical UL

Output Current, Heavy-Duty Use (UL)	27.0 A
Output Current, Light-Overload Use (UL)	34.0 A
Output Power, Heavy-Duty Use (UL)	20 Hp
Output Power, Light-Overload Use (UL)	25 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

