



PRODUCT-DETAILS

ACS180-04N-09A4-4

LV AC machinery drive module, IEC: Pn 4 kW, 9.4 A, 400 V, UL: Pld 5 Hp, 7.6 A, 460 V (ACS180-04N-09A4-4)



General Information	
Global Commercial Alias:	ACS180-04N-09A4-4
Product ID:	3AXD50000716555
ABB Type Designation:	ACS180-04N-09A4-4
EAN:	6438177649007
Catalog Description:	LV AC machinery drive module, IEC: Pn 4 kW, 9.4 A, 400 V, UL: Pld 5 Hp, 7.6 A, 460 V (ACS180-04N-09A4-4)
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.
Display Name:	ACS180-04N-09A4-4

Ordering

Customs Tariff Number:	85044087
HS Code:	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters
Invoice Description:	ACS180-04N-09A4-4 PN: 4 kW, IN: 9.4 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:	1.24 kg 2.734 lb
Product Net Depth / Length:	143 mm 5.630 in
Product Net Height:	220 mm 8.661 in
Product Net Width:	70 mm 2.756 in
Package Level 1 Depth / Length:	225 mm 8.858 in
Package Level 1 Height:	115 mm 4.528 in
Package Level 1 Width:	220 mm 8.661 in
Package Level 1 Units:	1 carton

Technical

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	50 W	87.4 %	0.8 %
0/50 %	60 W	91.8 %	0.9 %
0/100 %	86 W	93.5 %	1.3 %
50/25 %	53 W	93.2 %	0.8 %
50/50 %	65 W	95.5 %	1.0 %
50/100 %	99 W	96.3 %	1.5 %
90/50 %	74 W	97.1 %	1.1 %
90/100 %	118 W	97.5 %	1.8 %

Number of Phases:	3-phase
Degree of Protection:	IP20
Enclosure Type NEMA:	Open Type

Altitude:	2000 m
Operating Humidity (RH_{amb}):	5 ... 95
Power Factor:	0.98
Sound dB (A):	50.9 dB(A)
Multiple Battery Information:	No battery / cell included
Frequency (f):	47 ... 63 Hz
Frame Size:	R1
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):	9.4 A
Output Current, Light-Overload Use (I_{LD}):	8.9 A
Output Current, Heavy-Duty Use (I_{HD}):	7.2 A
Output Power, Normal Use (P_n):	4 kW
Output Power, Light-Overload Use (P_{LD}):	4 kW
Output Power, Heavy-Duty Use (P_{HD}):	3 kW
Apparent Power Output:	6.5 kV·A
Efficiency Level:	IE2
Standby Loss:	9 W
Temperature Rating:	Maximum 40 °C

Technical UL

Output Current, Heavy-Duty Use (UL):	6.3 A
Output Current, Light-Overload Use (UL):	7.6 A
Output Power, Heavy-Duty Use (UL):	3 Hp
Output Power, Light-Overload Use (UL):	5 Hp

Certificates and Declarations

REACH Date:	20250905
REACH Declaration:	9AKK107992A7060
REACH Information:	True - contains substances > 0.1 mass percentage
RoHS Date:	20250106
RoHS Declaration:	3AXD10001117584
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Environmental

SCIP:	5d07f008-496e-4abd-8f50-616cb485c791 Finland
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

Products > Drives > Low Voltage AC Drives > Machinery Drives > ACS180 - Machinery Drive

