



PRODUCT-DETAILS

ACS180-04N-045A-4

LV AC machinery drive module, IEC: Pn 22 kW, 45.0 A, 400 V, UL: Pld 30 Hp, 40.0 A, 460 V (ACS180-04N-045A-4)



General Information	
Global Commercial Alias:	ACS180-04N-045A-4
Product ID:	3AXD50000814411
ABB Type Designation:	ACS180-04N-045A-4
EAN:	6438177690146
Catalog Description:	LV AC machinery drive module, IEC: Pn 22 kW, 45.0 A, 400 V, UL: Pld 30 Hp, 40.0 A, 460 V (ACS180-04N-045A-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-045A-4

Ordering

Customs Tariff Number:	850440
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-045A-4 PN: 22 kW, IN: 45 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

Technical

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	189 W	89.7 %	0.6 %
0/50 %	253 W	92.6 %	0.8 %
0/100 %	452 W	93.4 %	1.4 %
50/25 %	201 W	94.5 %	0.6 %
50/50 %	277 W	96.0 %	0.9 %
50/100 %	509 W	96.3 %	1.6 %
90/50 %	311 W	97.5 %	1.0 %
90/100 %	587 W	97.6 %	1.9 %

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):	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):	45.0 A
Output Current, Light-Overload Use (I_{LD}):	42.0 A
Output Current, Heavy-Duty Use (I_{HD}):	38.0 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}):	18.5 kW
Apparent Power Output:	31 kV·A
Efficiency Level:	IE2
Standby Loss:	38 W
Temperature Rating:	Maximum 40 °C

Technical UL

Output Current, Heavy-Duty Use (UL):	34.0 A
Output Current, Light-Overload Use (UL):	40.0 A
Output Power, Heavy-Duty Use (UL):	25 Hp
Output Power, Light-Overload Use (UL):	30 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:	a7e9add0-620e-4316-8bd6-c358d91bc66b 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

