

PRODUCT-DETAILS

ACS180-04S-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 (ACS180-04S-045A-4)



General Information

Global Commercial Alias	ACS180-04S-045A-4
Product ID	3AXD50000814435
ABB Type Designation	ACS180-04S-045A-4
EAN	6438177690160
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 (ACS180-04S-045A-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
Invoice Description	ACS180-04S-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

Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	1000 m
Power Factor	0.98
Frequency (f)	47 ... 63 Hz
Frame Size	R4
Input Voltage (U _{in})	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 _{HD})	38.0 A
Output Current, Light-Overload Use (I _{LD})	42.0 A
Output Current, Normal Use (I _N)	45.0 A
Output Power, Heavy-Duty Use (P _{HD})	18.5 kW

Output Power, Light-Overload Use (P_{LD})	22 kW
Output Power, Normal Use (P_n)	22 kW
Apparent Power Output	31 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 %	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 %

Temperature Rating	Maximum 40 °C
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Additional Information

Product Main Type	ACS180-04S
Product Name	Frequency converter

Classifications

ETIM 8	EC001857 - Frequency converter =< 1 kV
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)

Categories

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

