

PRODUCT-DETAILS

ACH480-04-050A-4

LV AC drive module for HVAC, IEC: Pn 22 kW, 50 A, 400 V (ACH480-04-050A-4)



General Information

Global Commercial Alias	ACH480-04-050A-4
Product ID	3AXD50000275755
ABB Type Designation	ACH480-04-050A-4
EAN	6438177541851
Catalog Description	LV AC drive module for HVAC, IEC: Pn 22 kW, 50 A, 400 V (ACH480-04-050A-4)
Long Description	<p>The cabinet-optimized ACH480 drive has complete HVAC functionality to control fans, pumps, compressors, and more complex HVAC equipment like air-handling units, ensuring smooth, energy-efficient operation of your HVAC systems in normal and mission-critical situations. The built-in features significantly reduce installation time and the intuitive control panel with an HVAC-specific primary settings menu and help assistants makes startup, commissioning and operation easy. The optional Bluetooth® capability enables the commissioning and monitoring of the drive from a distance.</p> <p>The ACH480 is especially a good fit for panel builders and OEMs.</p>

Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	850440
Invoice Description	ACH480-04-050A-4 PN: 22 kW, IN: 50 A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece

Quote Only	No
Selling Unit of Measure	piece

Container Information

Gross Volume	13.393 dm³
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Dimensions

Product Net Weight	5.6 kg 12.346 lb
Product Net Depth / Length	213 mm 8.386 in
Product Net Height	240 mm 9.449 in
Product Net Width	262 mm 10.315 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

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Sound dB (A)	69 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47 ... 63 Hz
Frame Size	R4
Input Voltage (U _{in})	380 ... 480 V
Mounting Type	Module for cabinet building
Communication Protocol	BACNET CAN DeviceNet EtherNet/IP LON MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0 Other 2 Parallel 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1
Includes	Control unit PC connection

Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Heavy-Duty Use (I_{HD})	45.0 A
Output Current, Light-Overload Use (I_{LD})	48.0 A
Output Current, Normal Use (I_n)	50 A
Output Power, Heavy-Duty Use (P_{HD})	22.0 kW
Output Power, Light-Overload Use (P_{LD})	22.0 kW
Output Power, Normal Use (P_n)	22 kW
Apparent Power Output	35 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 %	230 W	88.9 %	0.7 %
0/50 %	296 W	92.3 %	0.9 %
0/100 %	523 W	93.1 %	1.5 %
50/25 %	243 W	94.0 %	0.7 %
50/50 %	324 W	95.8 %	0.9 %
50/100 %	589 W	96.2 %	1.7 %
90/50 %	363 W	97.3 %	1.0 %
90/100 %	672 W	97.5 %	1.9 %

Temperature Rating	Maximum 50 °C
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Additional Information

Product Main Type	ACH480-04
Product Name	Frequency converter

Classifications

ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	195df5c0-4685-425b-8b31-e03d5656a0e8 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for HVAC → ACH480-04 - Drive module for HVAC

