



 PRODUCT-DETAILS

ACH580-01-490A-4

LV AC wall-mounted drive for HVAC, IEC: Pn 250 kW, 490 A, 400 V, UL: Pld 300 Hp, 480 A, 480 V (ACH580-01-490A-4)



General Information

Global Commercial Alias:	ACH580-01-490A-4
Product ID:	3AXD50001154608
ABB Type Designation:	ACH580-01-490A-4
EAN:	6438177731566
Catalog Description:	LV AC wall-mounted drive for HVAC, IEC: Pn 250 kW, 490 A, 400 V, UL: Pld 300 Hp, 480 A, 480 V (ACH580-01-490A-4)
Long Description:	ACH580 HVAC drive offering has all key features built-in to control fans, pumps and compressors, and more complex equipment like air-handling units and chillers, 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. The ACH580-01 comes in IP21 enclosure and can be installed on the wall as standard. Also, IP55 and flange mounting units are available.
Display Name:	ACH580-01-490A-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:	ACH580-01-490A-4 PN: 250 kW, IN: 490 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:	97 kg 214 lb
Product Net Depth / Length:	418 mm 16.46 in
Product Net Height:	955 mm 37.60 in
Product Net Width:	380 mm 14.96 in
Package Level 1 Depth / Length:	1145 mm 45.08 in
Package Level 1 Height:	654 mm 25.75 in
Package Level 1 Width:	485 mm 19.09 in
Package Level 1 Units:	1 case

Technical

Number of Phases:	3-phase
Degree of Protection:	IP21
Enclosure Type NEMA:	Type1
Altitude:	1000 m
Sound dB (A):	68 dB(A)
Multiple Battery Information:	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f):	47.5 ... 63 Hz
Frame Size:	R9
Input Voltage (U_{in}):	380 ... 480 V
Mounting Type:	Wall-mounted

Communication Protocol:	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces:	Industrial Ethernet 0 Other 2 Parallel 2 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, Normal Use (I_n):	490 A
Output Current, Light-Overload Use (I_{LD}):	480 A
Output Current, Heavy-Duty Use (I_{HD}):	385 A
Output Power, Normal Use (P_n):	250 kW
Output Power, Light-Overload Use (P_{LD}):	250 kW
Output Power, Heavy-Duty Use (P_{HD}):	200 kW
Apparent Power Output:	339 kV·A

Technical UL

Output Current, Heavy-Duty Use (UL):	385 A
Output Current, Light-Overload Use (UL):	480 A
Output Power, Heavy-Duty Use (UL):	300 Hp
Output Power, Light-Overload Use (UL):	300 Hp

Certificates and Declarations

Declaration of Conformity - CE:	3AXD10001818627
REACH Date:	20250905
REACH Declaration:	9AKK107992A7060
REACH Information:	True - contains substances > 0.1 mass percentage
RoHS Date:	20250701
RoHS Declaration:	3AXD10001818627
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Environmental

WEEE Category: 4. Large Equipment (Any External Dimension More Than 50 cm)

External Classifications and Standards

ETIM 9: EC001857 - Frequency converter =< 1 kV

ETIM 10: EC001857 - Frequency converter =< 1 kV

Categories

Products > Drives > Low Voltage AC Drives > Industry-Specific Drives > Drives for HVAC > ACH580-01 - Wall-mounted drive for HVAC
Parts & Services > Drives > Services > Spares and Consumables > Parts

