



Priceless Price List

ABB low voltage drives ACH550, 1 to 550 Hp



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Standard Features

UL, cUL labeled, CE marked, BTL listed (BACnet Testing Lab) & UL Plenum Rated

EMI/RFI Filter (1st Environment, Restricted Distribution)

Seismic Certification in accordance to

IBC 2000 referencing ASCE 7-98 and ICC AC156

IBC 2003 referencing ASCE 7-02 and ICC AC156

IBC 2006 referencing ASCE 7-05 and ICC AC156

Start-Up Assistants

Maintenance Assistants

Diagnostic Assistants

Real Time Clock

Includes Day, Date and Time

Operator Panel Parameter Backup (read/write)

Full Graphic and Multilingual Display

for Operator Control, Parameter Set-Up and Operating

Data Display:

Output Frequency (Hz)

Speed (RPM)

Motor Current

Calculated % Motor Torque

Calculated Motor Power (kW)

DC Bus Voltage

Output Voltage

Heatsink Temperature

Elapsed Time Meter (resettable)

KWh (reset-able)

Input / Output Terminal Monitor

PID Actual Value (Feedback) & Error

Fault Text

Warning Text

Three (3) Scalable Process Variable Displays

User Definable Engineering Units

Two (2) Programmable Analog Inputs

Six (6) Programmable Digital Inputs

Two (2) Programmable Analog Outputs

Up to six (6) Programmable Relay Outputs (Three (3) Standard)

Adjustable Filters on Analog Inputs and Outputs

Mathematical Functions on Analog Reference Signals

All Control Inputs Isolated from Ground and Power

Four (4) Resident Serial Communication Protocols

Johnson Controls N2

Siemens Buildings Technologies FLN (P1)

Modbus RTU

BACnet (MS/TP)

Input Speed Signals

Current 0 (4) to 20 mA

Voltage 0 (2) to 10 VDC

Increase/Decrease Reference Contacts (Floating Point)

Serial Communications

Start/Stop

2 Wire (Dry Contact Closure)

3 Wire (Momentary Contact)

Application of Input Power

Application of Reference Signal (PID Sleep/Wake-Up)

Serial Communications

Start Functions

Ramp

Flying Start

Premagnetization (DC brake) on Start

Automatic Torque Boost

Automatic Torque Boost with Flying Start

Auto Restart (Reset) – Customer Selectable and

Adjustable

Stop Functions

Ramp or Coast to Stop

Emergency Stop

DC Braking / Hold at Stop

Flux Braking

Accel/Decel

Two (2) sets of Independently Adjustable Ramps

Linear or Adjustable 'S' Curve Accel/Decel Ramps

HVAC Specific Application Macros

Separate Safeties (2) and Run Permissive Inputs

Damper Control

Override Input (Fire Mode)

Timer Functions

Four (4) Daily Start/Stop Time Periods

Four (4) Weekly Start/Stop Time Periods

Four Timers for Collecting Time Periods and Overrides

Seven (7) Preset Speeds

Supervision Functions

Adjustable Current Limit

Electronic Reverse

Automatic Extended Power Loss Ride Through (Selectable)

Programmable Maximum Frequency to 500 Hz

PID Control

Two (2) Integral Independent Programmable PID

Setpoint Controllers (Process and External)

External Selection between Two (2) Sets of Process

PID Controller Parameters

PID Sleep/Wake-Up

Standard Features (continued)

Motor Control Features

Scalar (V/Hz) and Vector Modes of Motor Control

V/Hz Shapes

Linear

Squared

Energy Optimization

IR Compensation

Slip Compensation

Three (3) Critical Frequency Lockout Bands

Preprogrammed Protection Circuits

Overcurrent

Short Circuit

Ground Fault

Overvoltage

Undervoltage

Input Phase Loss

Output Device (IGBT) Overtemperature

Adjustable Current Limit Regulator

UL508C approved Electronic Motor Overload (I2T)

Programmable Fault Functions for Protection Include

Loss of Analog Input

Panel Loss

External Fault

Motor Thermal Protection

Stall

Underload

Motor Phase Loss

Ground Fault

5% Equivalent Impedance

5% Equivalent Impedance with Internal Reactor(s)

Patented Swinging Choke Design for Superior Harmonic

Mitigation in frame sizes (R1 to R6)

3% Equivalent Impedance for frame R8

Available Options

3 Relay Extension Module (OREL-01)

115/230 V Digital input Interface Card (OHDI-01)

Fieldbus Adapter Modules

LonWorks

Profibus

DeviceNet

Ethernet

ControlNet

BACnet IP to MS/TP router

DriveWindow Light Start-up, Operation, Programming and Diagnostic Tool



Specifications

Input Connection

Input Voltage (U1)	208/220/230/240 VAC 3-phase +/-10%
	208/220/230/240 VAC 1-phase +/-10%
	380/400/415/440/460/480 VAC 3-phase +/-10%
	500/575/600 VAC 3-phase +/- 10%
Frequency:.....	48 - 63 Hz
Line Limitations:	Max +/-3% of nominal phase to phase input voltage
Fundamental Power Factor (cosj):	0.98 at nominal load
Connection:	U1, V1, W1 (U1, V1, 1-phase)

Output (Motor) Connection

Output Voltage:.....	0 to U1, 3-phase symmetrical, U2 at the field weakening point
Output Frequency:.....	-500 to 500 Hz
Frequency Resolution:.....	0.01 Hz
Continuous Output Current:	
Variable Torque:.....	1.0 * I2N (Nominal rated output current, Variable Torque)
Short Term Overload Capacity:	
Variable Torque:	1.1 * I2N, (1 min/10 min)
Peak Overload Capacity:	
Variable Torque:	1.35 * I2N, (2 sec/1 min)
Base Motor Frequency Range:.....	10 to 500 Hz
Switching Frequency:	1, 4, 8 or 12 kHz
Acceleration Time:	0.1 to 1800 s
Deceleration Time:.....	0.1 to 1800 s
Efficiency:	0.98 at nominal power level
Short Circuit Withstand Rating:	100,000 AIC (UL) w/o fuses
Connection:	U2, V2, W2
Enclosure Style:.....	UL (NEMA) Type 1, Type 12, or Type 3R
Agency Approval Listing and Compliance:	UL, cUL, CE, BTL (BACnet Testing Laboratory), IBC2000, 2003, 2006

Ambient Conditions, Operation

Air Temperature:	-15° to 40°C (5° to 104°F), above 40°C the maximum output current is de-rated 1% for every additional 1°C (up to 50°C (122°F) maximum limit.
Relative Humidity:.....	5 to 95%, no condensation allowed, maximum relative humidity is 60% in the presence of corrosive gasses
Contamination Levels:	
IEC:.....	60721-3-1, 60721-3-2 and 60721-3-3
Chemical Gasses:.....	3C1 and 3C2
Solid Particles:	3S2
Installation Site Altitude:	0 to 1000 m (3300 ft) above sea level. At sites over 1000 m (3300 ft) above sea level, the maximum power is de-rated 1% for every additional 100 m (330 ft). If the installation site is higher than 2000 m (6600 ft) above sea level, please contact your local ABB distributor or representative for further information
Vibration:	Max 3.0 mm (0.12 in) 2 to 9 Hz, Max 10 m/s ² (33 ft/s ²) 9 to 200 Hz sinusoidal Seismic Certified referencing IBC 2000, 2003 and 2006

Ambient Conditions, Storage (in Protective Shipping Package)

Air Temperature:	-40° to 70°C (-40° to 158°F)
Relative Humidity:.....	Less than 95%, no condensation allowed
Vibration:	In accordance with ISTA 1A and 1B specifications
Shock (IEC 60086-2-29):.....	Max 100 m/s ² (330 ft/s ²) 11 ms

Ambient Conditions, Transportation (in Protective Shipping Package)

Air Temperature:	-40° to 70°C (-40° to 158°F)
Relative Humidity:.....	Less than 95%, no condensation allowed
Atmospheric Pressure:	60 to 106 kPa (8.7 to 15.4 PSI)
Vibration:	Max 3.5 mm (0.14 in) 2 to 9 Hz, Max 15 m/s ² (49 ft/s ²) 9 to 200 Hz sinusoidal
Shock (IEC 60086-2-29):.....	Max 100 m/s ² (330 ft/s ²) 11 ms
Free Fall:	R1: 76 cm (30 in) R2: 61 cm (24 in) R3: 46 cm (18 in) R4: 31 cm (12 in) R5 & 6: 25 cm (10 in)

Cooling Information

Cooling Method:	Integral fan(s)
Power Loss:.....	Approximately 3% of rated power



Specifications

Analog Inputs

Quantity	Two (2) programmable
Voltage Reference:	0 (2) to 10 V, 250kOhm, single ended
Current Reference:	0 (4) to 20 mA, 100Ohm, single ended
Potentiometer:	10 VDC, 10 mA (1K to 10KOhms)
Input Updating Time	8 ms
Terminal Block Size	2.3mm ² / 14AWG

Reference Power Supply

Reference Voltage	+10 VDC, 1% at 25°C (77°F)
Maximum Load	10 mA
Applicable Potentiometer	1 kOhm to 10 kOhm
Terminal Block Size	2.3mm ² / 14AWG

Analog Outputs

Quantity	Two (2) programmable current outputs
Signal Level	0 (4) to 20 mA
Accuracy	+/- 1% full scale range at 25°C (77°F)
Maximum Load Impedance	500 Ohms
Output Updating Time	2 ms
Terminal Block Size	2.3mm ² / 14AWG

Digital Inputs

Quantity	Six (6) programmable digital inputs
Isolation	Isolated as one group
Signal Level	24 VDC, (10V Logic 0)
Input Current	15 mA at 24 VDC
Input Updating Time:	4 ms
Terminal Block Size	2.3mm ² / 14AWG

Internal Power Supply

Primary Use	Internal supply for digital inputs
Voltage:	+24 VDC, max 250 mA
Maximum Current:	250 mA
Protection:	Short circuit protected

Relay Outputs

Quantity	Three (3) programmable relay (Form C) outputs
Switching Capacity:	8 A at 24 VDC or 250 VAC, 0.4 A at 120 VDC
Max Continuous Current:	2A RMS
Contact Material:	Silver Cadmium Oxide (AgCdO)
Isolation Test Voltage	4 kVAC, 1 minute
Output Updating Time	12 ms
Terminal Block Size	2.3mm ² / 14AWG

Protections

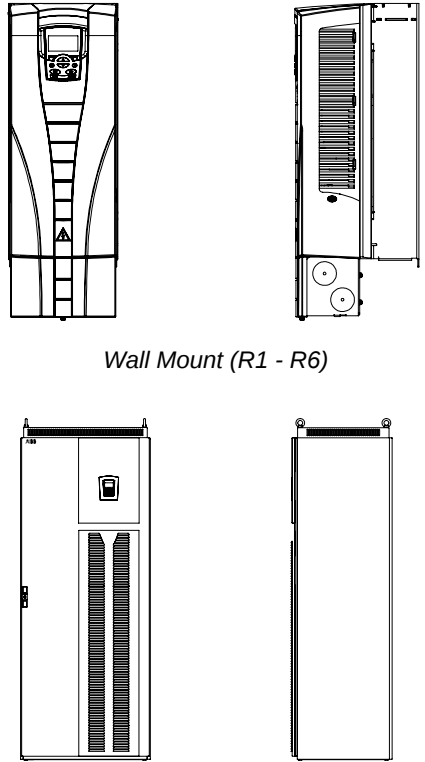
Single Phase	Protected (input & output)
Overcurrent Trip Limit:	3.5 x I _{2N} instantaneous
Adjustable Current Regulation Limit:	1.3 x I _{2N} (RMS) max.
Overvoltage Trip Limit:	1.30 x U _N
Undervoltage Trip Limit:	0.65 x U _N
Overtemperature (Heatsink):	+115°C (+239°F)
Auxiliary Voltage:	Short Circuit Protected
Ground Fault:	Protected
Short Circuit:	Protected
Microprocessor fault:	Protected
Motor Stall Protection:	Protected
Motor Overtemperature Protection (I _{2t}):	Protected
Input Power Loss of Phase:	Protected
Loss of Reference:	Protected
Short Circuit Current Rating:	100,000 RMS symmetrical Amperes
Input Line Impedance:	5% Equivalent Input Impedance with internal reactor(s) Patented swinging choke design for superior harmonic mitigation in frame sizes R1-R6
Printed Circuit Boards	Conformal coated

Notes

U1 = Input Voltage	PN = Power – Normal Duty (HP)
U2 = Output Voltage	2N = Nominal Motor Current Normal Duty
U _N = Nominal Motor Voltage	
f _N = Nominal Motor Frequency	

Product Description

The ACH550 is available in several configurations. A brief description and illustration are provided to facilitate model selection and understanding of what is offered with each standard product.

ACH550-UH	Base Drive
The ACH550 Drive is available from 1 to 100 HP in 208/230V, 1 to 550 HP in 480V, and 2 to 150 HP in 600V input voltages. The ACH550 Drive has eight frame sizes (R1 to R8). The ACH550 Drive is wall mounted from 1 to 200 HP (R1 to R6) and floor mounted from 250 to 550 HP (R8). The ACH550 Drive comes in a standard UL Type 1 (NEMA 1) or optional UL Type 12 (NEMA 12) enclosure and has a control panel for user interface, parameter adjustment and drive operation mounted on the front of the drive. <u>Wall mounted ACH550-UH</u> The front section of the wall mounted ACH550-UH contains the electronics, power and control wire terminals. The rear section forms a cooling channel. The two section construction allows the unit to be installed protruding through a wall, or through the rear wall of a customer supplied enclosure using additional hardware (R1 to R4), placing the rear section in a cooling air duct to minimize the heat inside the cabinet. In standard installations, the drive is mounted directly onto a wall and uses the provided conduit box. Conduit openings (knock-outs) are provided for bottom and side conduit entry. For mounting inside a customer-supplied cabinet, the conduit box may be removed. <u>Floor Mounted ACH550-UH</u> The floor mounted ACH550-UH contains all of the electronics, power and control wire terminals in a single enclosure with heatsink and cooling paths internal to the enclosure. In standard installations, the drive is mounted on the floor in a freestanding arrangement. A conduit entrance panel is provided at the top of the enclosure for conduit entry and exit.	 <i>Wall Mount (R1 - R6)</i> <i>Floor Mount (R8)</i>

ACH550-VCR & ACH550-VDR

ACH550 Drive w/ Vertical E-Clipse Bypass

The ACH550 with ABB E-Clipse Bypass is an ACH550 HVAC Drive with an advanced, communications capable, bypass motor starter.

The ACH550 with Vertical E-Clipse Bypass is the most economical form of the ABB E-Clipse Bypass package. The ACH550 with Vertical E-Clipse Bypass is wall mountable in a vertically integrated UL Type 1 (NEMA 1) enclosure and is available from 1 to 25 HP in 208/230V, 1 to 60 HP in 480V and 2 to 60 HP in 600V input voltages.

The ACH550 ABB E-Clipse Bypass

The ACH550 with ABB E-Clipse Bypass provides a non-fused input disconnect switch or circuit breaker with door mounted and interlocked operator (padlockable in the OFF position), a bypass starter, electronic motor overload protection, a local programming and operator keypad with LCD display and indicating lights, and provisions for external control connections, and serial communications capability. Certain configurations (+F267) also provide a drive service switch.

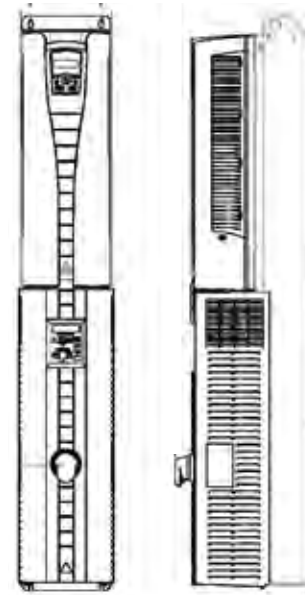
The ACH550 with E-Clipse Bypass includes two contactors. One contactor is the bypass contactor, used to connect the motor directly to the incoming power line in the event that the ACH550 is out of service. The other contactor is the ACH550 output contactor that disconnects the ACH550 from the input power and the motor when the motor is operating in the Bypass mode. The drive output contactor and the bypass contactor are interlocked to prevent "back feeding," which occurs if line voltage is applied to the ACH550 output terminals.

The ACH550 with ABB E-Clipse bypass is a microprocessor-controlled "intelligent" system which features programmable Class 20 or 30 overload curves, programmable underload (broken belt) and overload trip or indication. Also included as standard features are single-phase protection in bypass mode, programmable manual or automatic transfer to bypass, fireman's override, smoke control, damper control, no contactor chatter on brown-out power conditions and serial communications. Should a drive problem occur, fast acting fuses exclusive to the ACH550 drive path disconnect the drive from the line prior to clearing upstream branch circuit protection, maintaining bypass capability.

The damper control circuit closes a dry contact upon a start command to open a damper such as an outdoor air damper, fire damper, isolation damper, etc. before the motor is allowed to operate in drive mode or bypass mode regardless of the source of the run command. When the damper is fully open, a normally open dry contact from the damper end-switch closes and allows the motor to operate.

Up to four dedicated inputs are provided for safety interlocks such as firestats, smoke detectors, etc. The safety interlock inputs may also be linked to plain English keypad diagnostic indications to be displayed on the Control Panel LCD. The unit may be set-up to display any of the following diagnostics upon opening of a digital input: Vibration Switch; Firestat; Freezestat; Over Pressure; Vibration Trip; Smoke Alarm; Safety Open; Low Suction; Start Enable; Run Enable; Damper End Switch; Valve Open Proof; or Pre-Lube Cycle. When any of these contacts open, the motor stops (in drive or bypass mode) and the damper is commanded to close. Although it is not a recommended sequence of operation, this run permissive circuit may also be controlled via serial communications.

(continued on next page)



Vertical (R1-R4)



AC DRIVES ACH550

ACH550-BCR & ACH550-BDR

ACH550 Drive w/ E-Clipse Bypass

The ACH550 with ABB E-Clipse Bypass is an ACH550 HVAC Drive with an advanced, communications capable, bypass motor starter.

The ACH550 with E-Clipse Bypass is available from 1 to 100 HP in 208/230V, 1 to 400 HP in 480V, and 2 to 150 HP in 600V input voltages. The ACH550 with E-Clipse Bypass is wall mounted from 1 to 200 HP and floor mounted from 250 to 400 HP. The ACH550 with E-Clipse Bypass is housed in a standard UL Type 1 (NEMA 1) or optional UL Type 12 (NEMA 12) enclosure.

For outdoor applications, UL Type 3R (NEMA 3R) enclosed ACH550-BCR and -BDR Drive with Disconnect packages are available from 1 to 100 HP at 208/240V, 1 to 200 HP at 480V and 2 to 150 HP at 600V. Construction is sheet steel with a tough powder coat paint finish for corrosion resistance. A thermostatically controlled space heater and thermostatic control of the force ventilated cooling system are standard. The operator keypad is mounted on the enclosure and covered with a protective door.

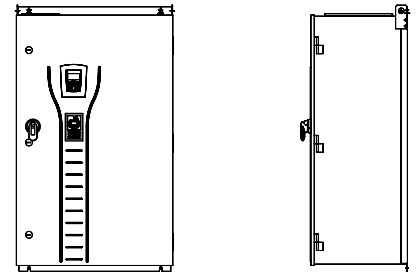
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The ACH550 with ABB E-Clipse bypass has two Override modes of operation for critical control situations. The Smoke Control Override accepts a normally open dry contact that forces the motor to run in bypass and ignores all keypad inputs. In Smoke Control Override mode, the system acknowledges high priority digital inputs such as overpressure safeties and damper end-switch run permissive proofs, and disregards other, low priority digital inputs. Smoke Control Override (Override 1) response is not field programmable. The unit will go into smoke Override mode whenever the Override 1 input is closed.

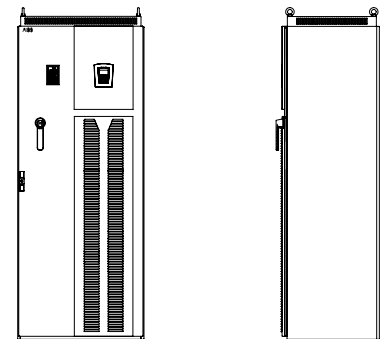
The second mode, Override 2, is fully programmable. Override 2 default programming is designed for "Run to Destruction" operation. However, the end user can program the unit to acknowledge some external inputs while ignoring others; ignore all external inputs; or acknowledge all external inputs. This mode is fully programmable to allow the user to program the response of the unit to match his local AHJ.

All ABB E-Clipse bypass units have the following Embedded Fieldbus (EFB) protocols included as standard: Modbus RTU; Johnson Controls N2; Siemens Building Technologies FLN (P1); and BACnet (MS/TP). The ABB E-Clipse bypass is BACnet Testing Labs (BTL) listed as an Applications Specific Controller (B-ASC).

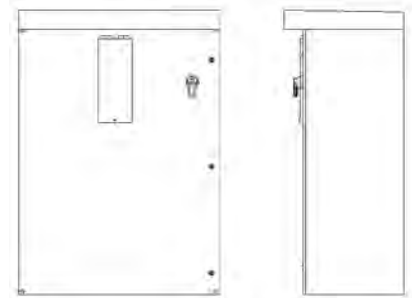
The ACH550 with ABB E-Clipse bypass allows control and monitoring of both Drive and Bypass over serial communications. Users can control and monitor over 45 points of bypass information via the communications protocols. Serial communication capabilities include; bypass run-stop control; the ability to force the unit to bypass; and the ability to control all relay outputs. The BAS system can monitor measured data such as current (in amps), kilowatt hours (resettable), operating hours (resettable), and bypass logic board temperature. The BAS is also capable of monitoring status data such as bypass relay output status, and digital input status. Bypass override, diagnostic, warning and fault information is also transmitted over serial communications with remote system (drive or bypass) fault reset possible as well. The BAS system is also capable of determining if the motor is running (or selected to run) from the drive or bypass; as well as the status of the Drive and Bypass H-O-A switches over serial communications.



Wall Mount (R1 - R6)



Floor Mount (R8)



Wall Mount BX3R (R5)



AC DRIVES ACH550

ACH550-CC & ACH550-CD

The ACH550-CC and CD are complete Drive with Bypass Packages that include an ACH550 Variable Frequency Drive, a bypass function that allows the motor to be run at full voltage in the event the drive is shut down for service and a main disconnect means. Complete, pre-engineered packages reduce time, effort and the cost of installing the popular drive bypass option.

The bypass function is configured entirely of standard industrial control components. It includes two electrically interlocked contactors, a motor overload relay, a control power transformer with primary and secondary fusing, and cover mounted Drive-Off-Bypass selector switch, BYPASS pilot light and EXTERNAL/MOL FAULT pilot light.

Bypass is accomplished by means of the two contactors. One is the bypass contactor used to connect the motor directly to the power line. The other is the output contactor that disconnects the motor from the drive output when operating in the bypass mode. This prevents the "back feeding" that would occur if line voltage were applied to the drive output terminals. The drive output contactor and the bypass contactor are electrically interlocked to prevent simultaneous operation.

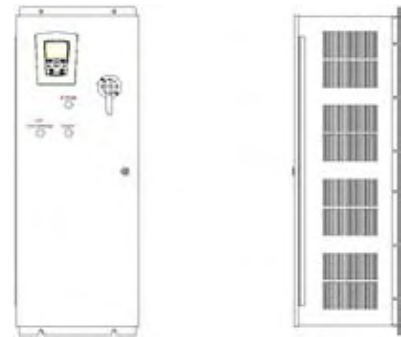
Motor overload protection in the bypass mode is provided by a Class 20 motor overload relay.

ACH550 Drive W/ Bypass Packages include either an input disconnect switch (ACH550-CD) or circuit breaker (ACH550-CC) with a door mounted external operating handle that is interlocked with the enclosure door and lockable in the OFF position with up to three padlocks. The multi-lingual, alphanumeric drive control panel is mounted on the enclosure door. An optional drive service switch (+F267) isolates the drive from the power source for service and provides superior functionality to a three-contactor arrangement.

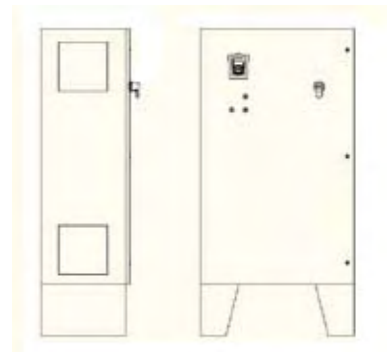
Fast acting, current limiting drive input fuses are provided as standard. Faster than circuit breakers and most other fuses, the drive fuses are included to limit damage and allow for possible drive repair if a short circuit or ground fault should develop in the drive input bridge. For drives at the higher ratings, it is generally more economical to repair rather than replace the drive. Drive fuses are also intended to provide for immediate operation of the bypass function after such a fault.

Drive W/ Bypass Packages are available in UL TYPE 1 and UL TYPE 12 enclosures through 100 HP at 208/240V, 200 HP at 480V and 150 HP at 600V. For outdoor applications, UL TYPE 3R enclosed packages are available through 100 HP at 208/240V, 200 HP at 480V, and 150 HP at 600V. UL TYPE 3R enclosures are sheet steel construction with a tough powder coat paint finish for corrosion resistance, and include a thermostatically controlled space heater and thermostatic control of the force ventilated cooling system as standard.

ACH550 Classic Bypass



Wall Mount (R1 - R6)



Floor Mount (R6)



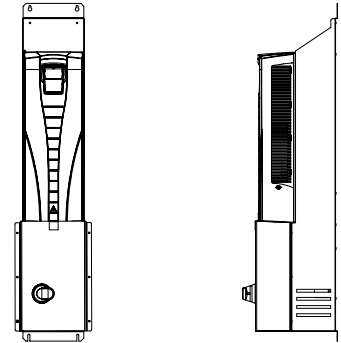
Floor Mount (R8)

ACH550-PCR & ACH550-PDR

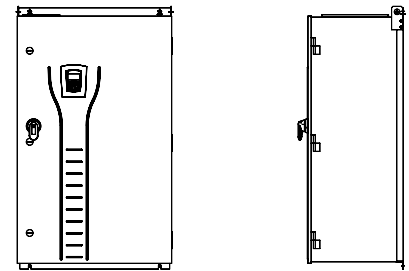
The ACH550 Drive Pack is an ACH550 Drive packaged with either an input disconnect switch and fast acting fuses (ACH550-PDR) or an input circuit breaker (ACH550-PCR). The ACH550 Drive Pack is available from 1 to 100 HP at 208/240V, 1 to 550 HP at 480V, and 2 to 150 HP at 600V. The ACH550 Drive Pack is wall mounted from 1 to 200 HP and floor mounted from 250 to 550 HP. The ACH550 Drive Pack comes in a standard UL Type 1 (NEMA 1) or optional UL Type 12 (NEMA 12) enclosure. The ACH550 Drive Pack provides a door-mounted operator (padlockable in the OFF position), electronic motor overload protection, local operator keypad with graphics display, and provisions for external control connections.

For outdoor applications, UL Type (NEMA) 3R enclosed ACH550-PCR and -PDR Drive with Disconnect packages are available from 1 to 100 HP at 208/240V, 1 to 200 HP at 480V and 2 to 150 HP at 600V. Construction is sheet steel with a tough powder coat paint finish for corrosion resistance. A thermostatically controlled space heater and thermostatic control of the force ventilated cooling system are standard. The operator keypad is mounted on the enclosure and covered with a protective door.

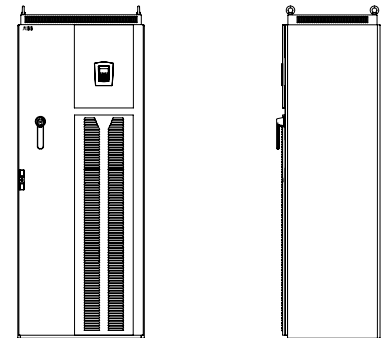
ACH550 Drive Pack



Wall Mount (R1 - R4)



Wall Mount (R5 - R6)



Floor Mount (R8)



Definition of NEMA and IEC environmental ratings

NEMA and IEC environmental ratings can be confusing at times. Below is a summary of the rating definitions and recommendations for application of each type supported by the ACS550 AC Drive product family.

NEMA 1, UL type 1

Indoor use primarily to provide a degree of protection against limited amounts of falling dirt.

IP 2 1

- └ (2) Protected against solid foreign objects of 12.5mm diameter and greater
- └ (1) Protected against vertically falling water drops

Recommendation

Installation in clean environment such as a clean room or in another enclosure with higher degree of protection

NEMA 12, UL type 12

Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids

IP 5 4

- └ (5) Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety
- └ (4) Water splashed against the enclosure from any direction shall have no harmful effects

Recommendation

Installation in environments with moderate to significant dust and contaminant particles. Acceptable for most applications on factory floors where dust is present but spraying liquids are not. Regular preventative maintenance for filter changing or cleaning. Inspect drive for dust or particle build up that may limit cooling in the future, clean as needed.

NEMA 3R, UL type 3R

Either indoor or outdoor use to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure.

IP 2 4

- └ (2) Protected against solid foreign objects of 12.5mm diameter and greater
- └ (4) Water splashed against the enclosure from any direction shall have no harmful effects

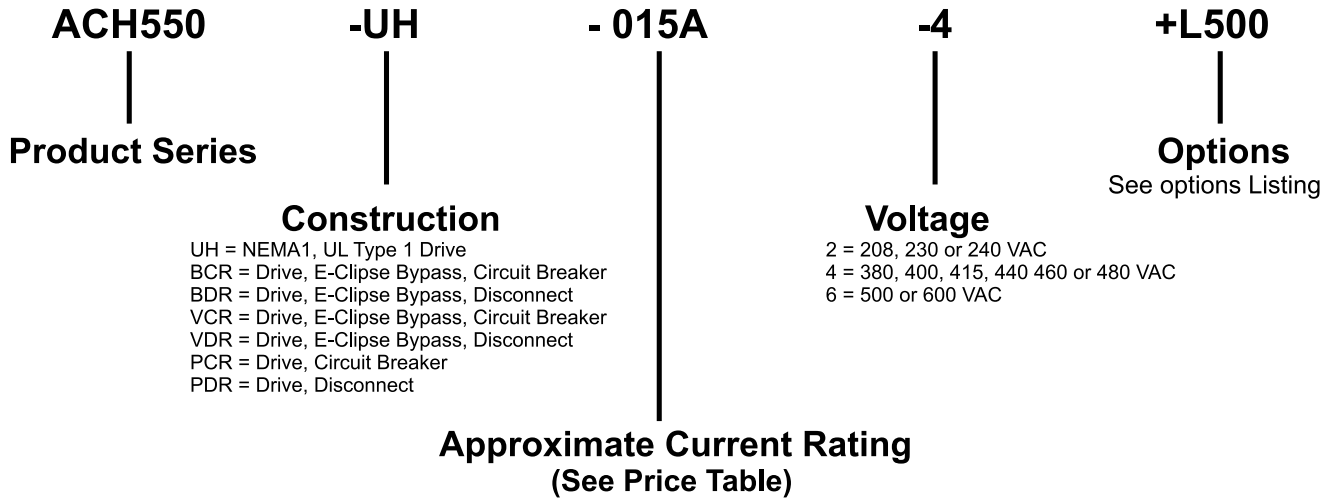
Recommendation

Installation in outdoor environments where rain and other precipitates are commonly present. Also suitable for indoor installation where dripping or splashing water is present. Not recommended where significant dust and contaminant particles are present.



AC DRIVES ACH550

Basic Type Code Information



Ordering Information

To order an ACH550 drive, select the appropriate type code shown in the selection guide for your input voltage. This type code represents the basic drive product. For the ACH550-UH wall-mounted units, this includes the drive and the US conduit box. For the ACH550-UH floor-mounted units, this includes the free-standing drive with top entry / top exit for motor and power cables and a common mode filter for drives larger than 200 HP. To add options to these products, simply add a + at the end of the type code followed by the catalog code shown for that option.

Example: ACH550-UH-046A-2 plus a UL Type 12 (NEMA 12) enclosure and LonWorks adapter. The type code that should be indicated on the order would be:

NEMA 12 LonWorks Adapter
ACH550-UH-046A-2+B055+K452

For additional details and available options refer to the order format pages later in these price pages.

For items not listed in this price book contact the factory for engineered product quotes.



208/230V Ratings for Base Drive

3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 208V ¹

	HP ²	Material Description	Amps ^{3,4}	Base Drive Frame	Dim. Ref. Page 40	Dim. Ref. Page 41
Base Drive ⁵	1	ACH550-UH-04A6-2	4.6	R1	UH1-1	UH12-1
	1.5	ACH550-UH-06A6-2	6.6	R1	UH1-1	UH12-1
	2	ACH550-UH-07A5-2	7.5	R1	UH1-1	UH12-1
	3	ACH550-UH-012A-2	12	R1	UH1-1	UH12-1
	5	ACH550-UH-017A-2	17	R1	UH1-1	UH12-1
	7.5	ACH550-UH-024A-2	24	R2	UH1-2	UH12-2
	10	ACH550-UH-031A-2	31	R2	UH1-2	UH12-2
	15	ACH550-UH-046A-2	45	R3	UH1-3	UH12-3
	20	ACH550-UH-059A-2	59	R3	UH1-3	UH12-3
	25	ACH550-UH-075A-2	75	R4	UH1-4	UH12-4
	30	ACH550-UH-088A-2	88	R4	UH1-4	UH12-4
	40	ACH550-UH-114A-2	114	R4	UH1-4	UH12-4
	50	ACH550-UH-143A-2	143	R6	UH1-6	UH12-6
	60	ACH550-UH-178A-2	178	R6	UH1-6	UH12-6
	75	ACH550-UH-221A-2	221	R6	UH1-6	UH12-6
230V Ratings for Base Drive 3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 230V						
	100	ACH550-UH-248A-2	248	R6	UH1-6	UH12-6

NOTES

- 1 The rated current of the ACH550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- 2 Horsepower is based on NEMA motor ratings for 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.
- 3 Continuous base current with 110% overload for 1 minute / 10 minutes.
130% continuous base current available for 2 seconds / minute.
Current ratings do not change with different supply voltages.
- 4 For operation on single phase power, de-rate the output current by 50%.
- 5 All -UH models -04A6-2 through -248A-2 come with a conduit box as standard.



208/230V Ratings for Vertical E-Clipse Bypass

3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 208V ¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 42
Vertical Bypass with Non-Fused Disconnect Switch	1	ACH550-VDR-04A6-2	4.6	R1	VX1-1
	1.5	ACH550-VDR-06A6-2	6.6	R1	VX1-1
	2	ACH550-VDR-07A5-2	7.5	R1	VX1-1
	3	ACH550-VDR-012A-2	11.8	R1	VX1-1
	5	ACH550-VDR-017A-2	16.7	R1	VX1-1
	7.5	ACH550-VDR-024A-2	24.2	R2	VX1-2
	10	ACH550-VDR-031A-2	30.8	R2	VX1-3
	15	ACH550-VDR-046A-2	46.2	R3	VX1-3
	20	ACH550-VDR-059A-2	59.4	R3	VX1-3
	25	ACH550-VDR-075A-2	74.8	R4	VX1-4

Vertical Bypass with Circuit Breaker	1	ACH550-VCR-04A6-2	4.6	R1	VX1-1
	1.5	ACH550-VCR-06A6-2	6.6	R1	VX1-1
	2	ACH550-VCR-07A5-2	7.5	R1	VX1-1
	3	ACH550-VCR-012A-2	11.8	R1	VX1-1
	5	ACH550-VCR-017A-2	16.7	R1	VX1-1
	7.5	ACH550-VCR-024A-2	24.2	R2	VX1-2
	10	ACH550-VCR-031A-2	30.8	R2	VX1-3
	15	ACH550-VCR-046A-2	46.2	R3	VX1-3
	20	ACH550-VCR-059A-2	59.4	R3	VX1-3
	25	ACH550-VCR-075A-2	74.8	R4	VX1-4



AC DRIVES ACH550

208/230V Ratings for E-Clipse Bypass

3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 208V ¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 43	Dim. Ref. page 44	Dim. Ref. Page 45
E-Clipse Bypass with Non-Fused Disconnect Switch	1	ACH550-BDR-04A6-2	4.6	R1	BX1-1	BX12-1	BX3R-1
	1.5	ACH550-BDR-06A6-2	6.6	R1	BX1-1	BX12-1	BX3R-1
	2	ACH550-BDR-07A5-2	7.5	R1	BX1-1	BX12-1	BX3R-1
	3	ACH550-BDR-012A-2	11.8	R1	BX1-1	BX12-1	BX3R-1
	5	ACH550-BDR-017A-2	16.7	R1	BX1-1	BX12-1	BX3R-1
	7.5	ACH550-BDR-024A-2	24.2	R2	BX1-2	BX12-2	BX3R-2
	10	ACH550-BDR-031A-2	30.8	R2	BX1-3	BX12-3	BX3R-3
	15	ACH550-BDR-046A-2	46.2	R3	BX1-3	BX12-3	BX3R-3
	20	ACH550-BDR-059A-2	59.4	R3	BX1-3	BX12-3	BX3R-3
	25	ACH550-BDR-075A-2	74.8	R4	BX1-4	BX12-4	BX3R-4
	30	ACH550-BDR-088A-2	88	R4	BX1-5	BX12-5	BX3R-5*
	40	ACH550-BDR-114A-2	114	R4	BX1-5	BX12-5	BX3R-6
	50	ACH550-BDR-143A-2	143	R6	BX1-6	BX12-6	BX3R-6
	60	ACH550-BDR-178A-2	178	R6	BX1-6	BX12-6	BX3R-6
	75	ACH550-BDR-221A-2	221	R6	BX1-6	BX12-6	BX3R-7
230V Ratings for E-Clipse Bypass with Disconnect							
3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 230V							
	100	ACH550-BDR-248A-2	248	R6	BX1-6	BX12-6	BX3R-7

E-Clipse Bypass with Circuit Breaker	1	ACH550-BCR-04A6-2	4.6	R1	BX1-1	BX12-1	BX3R-1
	1.5	ACH550-BCR-06A6-2	6.6	R1	BX1-1	BX12-1	BX3R-1
	2	ACH550-BCR-07A5-2	7.5	R1	BX1-1	BX12-1	BX3R-1
	3	ACH550-BCR-012A-2	11.8	R1	BX1-1	BX12-1	BX3R-1
	5	ACH550-BCR-017A-2	16.7	R1	BX1-1	BX12-1	BX3R-1
	7.5	ACH550-BCR-024A-2	24.2	R2	BX1-2	BX12-2	BX3R-2
	10	ACH550-BCR-031A-2	30.8	R2	BX1-3	BX12-3	BX3R-3
	15	ACH550-BCR-046A-2	46.2	R3	BX1-3	BX12-3	BX3R-3
	20	ACH550-BCR-059A-2	59.4	R3	BX1-3	BX12-3	BX3R-3
	25	ACH550-BCR-075A-2	74.8	R4	BX1-4	BX12-4	BX3R-4
	30	ACH550-BCR-088A-2	88	R4	BX1-5	BX12-5	BX3R-5*
	40	ACH550-BCR-114A-2	114	R4	BX1-5	BX12-5	BX3R-6
	50	ACH550-BCR-143A-2	143	R6	BX1-6	BX12-6	BX3R-6
	60	ACH550-BCR-178A-2	178	R6	BX1-6	BX12-6	BX3R-6
	75	ACH550-BCR-221A-2	221	R6	BX1-6	BX12-6	BX3R-7
230V Ratings for E-Clipse Bypass with Circuit Breaker							
3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 230V							
	100	ACH550-BCR-248A-2	248	R6	BX1-6	BX12-6	BX3R-7

* Dimension references change from BX3R-5 to BX3R-6 with the addition of the AC Line Reactor (+E213) option.



AC DRIVES ACH550

208/230V Ratings for Classic Bypass

3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 208V ¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 46	Dim. Ref. Page 47	Dim. Ref. Page 48
Classic Bypass with Non-Fused Disconnect Switch	1	ACH550-CD-04A6-2	4.6	R1	CX1-1	CX12-1	CX3R-1
	1.5	ACH550-CD-06A6-2	6.6	R1	CX1-1	CX12-1	CX3R-1
	2	ACH550-CD-07A5-2	7.5	R1	CX1-1	CX12-1	CX3R-1
	3	ACH550-CD-012A-2	12	R1	CX1-1	CX12-1	CX3R-1
	5	ACH550-CD-017A-2	17	R1	CX1-1	CX12-1	CX3R-1
	7.5	ACH550-CD-024A-2	24	R2	CX1-3	CX12-3	CX3R-2
	10	ACH550-CD-031A-2	31	R2	CX1-3	CX12-3	CX3R-2
	15	ACH550-CD-046A-2	46	R3	CX1-4	CX12-5	CX3R-3
	20	ACH550-CD-059A-2	59	R3	CX1-4	CX12-5	CX3R-3
	25	ACH550-CD-075A-2	75	R4	CX1-6	CX12-6	CX3R-4
	30	ACH550-CD-088A-2	88	R4	CX1-9	CX12-7	CX3R-5
	40	ACH550-CD-114A-2	114	R4	CX1-9	CX12-7	CX3R-5
	50	ACH550-CD-143A-2	143	R6	CX1-10	CX12-10	CX3R-7
	60	ACH550-CD-178A-2	178	R6	CX1-10	CX12-10	CX3R-7
	75	ACH550-CD-221A-2	221	R6	CX1-11	CX12-10	CX3R-8
230V Ratings for Classic Bypass							
3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 230V							
	100	ACH550-CD-248A-2	248	R6	CX1-11	CX12-10	CX3R-8
Classic Bypass with Circuit Breaker	1	ACH550-CC-04A6-2	4.6	R1	CX1-1	CX12-1	CX3R-1
	1.5	ACH550-CC-06A6-2	6.6	R1	CX1-1	CX12-1	CX3R-1
	2	ACH550-CC-07A5-2	7.5	R1	CX1-1	CX12-1	CX3R-1
	3	ACH550-CC-012A-2	12	R1	CX1-1	CX12-1	CX3R-1
	5	ACH550-CC-017A-2	17	R1	CX1-1	CX12-1	CX3R-1
	7.5	ACH550-CC-024A-2	24	R2	CX1-3	CX12-3	CX3R-2
	10	ACH550-CC-031A-2	31	R2	CX1-3	CX12-3	CX3R-2
	15	ACH550-CC-046A-2	46	R3	CX1-4	CX12-5	CX3R-3
	20	ACH550-CC-059A-2	59	R3	CX1-4	CX12-5	CX3R-3
	25	ACH550-CC-075A-2	75	R4	CX1-6	CX12-6	CX3R-4
	30	ACH550-CC-088A-2	88	R4	CX1-9	CX12-7	CX3R-5
	40	ACH550-CC-114A-2	114	R4	CX1-9	CX12-7	CX3R-5
	50	ACH550-CC-143A-2	143	R6	CX1-10	CX12-10	CX3R-7
	60	ACH550-CC-178A-2	178	R6	CX1-10	CX12-10	CX3R-7
	75	ACH550-CC-221A-2	221	R6	CX1-11	CX12-10	CX3R-8
230V Ratings for Classic Bypass							
3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 230V							
	100	ACH550-CC-248A-2	248	R6	CX1-11	CX12-10	CX3R-8



AC DRIVES ACH550

208/230V Ratings for Drive with Input Disconnect

3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 208V ¹

	HP ²	Material Description	Amps ^{3,4}	Base Drive Frame	Dim. Ref. Page 49	Dim. Ref. Page 50	Dim. Ref. Page 51
Drive with Disconnect Switch and Fuses	1	ACH550-PDR-04A6-2	4.6	R1	PX1-1	PX12-1	PX3R-1
	1.5	ACH550-PDR-06A6-2	6.6	R1	PX1-1	PX12-1	PX3R-1
	2	ACH550-PDR-07A5-2	7.5	R1	PX1-1	PX12-1	PX3R-1
	3	ACH550-PDR-012A-2	12	R1	PX1-1	PX12-1	PX3R-1
	5	ACH550-PDR-017A-2	17	R1	PX1-1	PX12-1	PX3R-1
	7.5	ACH550-PDR-024A-2	24	R2	PX1-2	PX12-2	PX3R-2
	10	ACH550-PDR-031A-2	31	R2	PX1-2	PX12-2	PX3R-3
	15	ACH550-PDR-046A-2	46	R3	PX1-3	PX12-3	PX3R-3
	20	ACH550-PDR-059A-2	59	R3	PX1-3	PX12-3	PX3R-3
	25	ACH550-PDR-075A-2	75	R4	PX1-4	PX12-4	PX3R-4
	30	ACH550-PDR-088A-2	88	R4	PX1-5	PX12-5	PX3R-5
	40	ACH550-PDR-114A-2	114	R4	PX1-5	PX12-5	PX3R-5
	50	ACH550-PDR-143A-2	143	R6	PX1-6	PX12-6	PX3R-6
	60	ACH550-PDR-178A-2	178	R6	PX1-6	PX12-6	PX3R-6
	75	ACH550-PDR-221A-2	221	R6	PX1-6	PX12-6	PX3R-6
230V Ratings for Drive with Disconnect Switch and Fuses 3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 230V							
	100	ACH550-PDR-248A-2	248	R6	PX1-6	PX12-6	PX3R-6

Drive with Circuit Breaker	1	ACH550-PCR-04A6-2	4.6	R1	PX1-1	PX12-1	PX3R-1
	1.5	ACH550-PCR-06A6-2	6.6	R1	PX1-1	PX12-1	PX3R-1
	2	ACH550-PCR-07A5-2	7.5	R1	PX1-1	PX12-1	PX3R-1
	3	ACH550-PCR-012A-2	12	R1	PX1-1	PX12-1	PX3R-1
	5	ACH550-PCR-017A-2	17	R1	PX1-1	PX12-1	PX3R-1
	7.5	ACH550-PCR-024A-2	24	R2	PX1-2	PX12-2	PX3R-2
	10	ACH550-PCR-031A-2	31	R2	PX1-2	PX12-2	PX3R-3
	15	ACH550-PCR-046A-2	46	R3	PX1-3	PX12-3	PX3R-3
	20	ACH550-PCR-059A-2	59	R3	PX1-3	PX12-3	PX3R-3
	25	ACH550-PCR-075A-2	75	R4	PX1-4	PX12-4	PX3R-4
	30	ACH550-PCR-088A-2	88	R4	PX1-5	PX12-5	PX3R-5
	40	ACH550-PCR-114A-2	114	R4	PX1-5	PX12-5	PX3R-5
	50	ACH550-PCR-143A-2	143	R6	PX1-6	PX12-6	PX3R-6
	60	ACH550-PCR-178A-2	178	R6	PX1-6	PX12-6	PX3R-6
	75	ACH550-PCR-221A-2	221	R6	PX1-6	PX12-6	PX3R-6
230V Ratings for Drive with Circuit Breaker 3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 230V							
	100	ACH550-PCR-248A-2	248	R6	PX1-6	PX12-6	PX3R-6



AC DRIVES ACH550

480V Ratings for Base Drive

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 460V ¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 40	Dim. Ref. Page 41
Base Drive ⁶	1	ACH550-UH-03A3-4	3.3	R1	UH1-1	UH12-1
	1.5	ACH550-UH-03A3-4	3.3	R1	UH1-1	UH12-1
	2	ACH550-UH-04A1-4	4.1	R1	UH1-1	UH12-1
	3	ACH550-UH-06A9-4	6.9	R1	UH1-1	UH12-1
	5	ACH550-UH-08A8-4	8.8	R1	UH1-1	UH12-1
	7.5	ACH550-UH-012A-4	12	R1	UH1-1	UH12-1
	10	ACH550-UH-015A-4	15	R2	UH1-2	UH12-2
	15	ACH550-UH-023A-4	23	R2	UH1-2	UH12-2
	20	ACH550-UH-031A-4	31	R3	UH1-3	UH12-3
	25	ACH550-UH-038A-4	38	R3	UH1-3	UH12-3
	30	ACH550-UH-045A-4	44	R3	UH1-3	UH12-3
	40	ACH550-UH-059A-4	59	R4	UH1-4	UH12-4
	50	ACH550-UH-072A-4	72	R4	UH1-4	UH12-4
	60	ACH550-UH-078A-4	77	R4	UH1-4	UH12-4
	75	ACH550-UH-097A-4	96	R4	UH1-4	UH12-4
	100	ACH550-UH-125A-4	124	R5	UH1-5	UH12-5
	125	ACH550-UH-157A-4	157	R6	UH1-6	UH12-6
	150	ACH550-UH-180A-4	180	R6	UH1-6	UH12-6
	200	ACH550-UH-246A-4	245	R6	UH1-6	UH12-6
	250	ACH550-UH-316A-4	316	R8	UH1-8	UH12-8
	300	ACH550-UH-368A-4	368	R8	UH1-8	UH12-8
	350	ACH550-UH-414A-4	414	R8	UH1-8	UH12-8
	400	ACH550-UH-486A-4	486	R8	UH1-8	UH12-8
	450	ACH550-UH-526A-4	826	R8	UH1-8	UH12-8
	500	ACH550-UH-602A-4	602	R8	UH1-8	UH12-8
	550	ACH550-UH-645A-4	645	R8	UH1-8	UH12-8

NOTES

- 1 The rated current of the ACH550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- 2 Horsepower is based on NEMA motor ratings for most 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.
- 3 Continuous base current with 110% overload for 1 minute / 10 minutes.
130% continuous base current available for 2 seconds / 1 minute.
Current ratings do not change with different supply voltages.
- 6 All -UH models -03A3-4 through -246A-4 come with a conduit box as standard.
All -UH models -316A-4 through -645A-4 come standard with US conduit openings, top entry / top exit, common mode filter for drives larger than 200 HP, and floor-standing enclosure.



480V Ratings for Vertical E-Clipse Bypass

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 460V ¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 42
Vertical Bypass with Non-Fused Disconnect Switch	1	ACH550-VDR-03A3-4	3.3	R1	VX1-1
	1.5	ACH550-VDR-03A3-4	3.3	R1	VX1-1
	2	ACH550-VDR-04A1-4	4.1	R1	VX1-1
	3	ACH550-VDR-06A9-4	6.9	R1	VX1-1
	5	ACH550-VDR-08A8-4	8.8	R1	VX1-1
	7.5	ACH550-VDR-012A-4	11.9	R1	VX1-1
	10	ACH550-VDR-015A-4	15.4	R2	VX1-2
	15	ACH550-VDR-023A-4	23	R2	VX1-2
	20	ACH550-VDR-031A-4	31	R3	VX1-3
	25	ACH550-VDR-038A-4	38	R3	VX1-3
	30	ACH550-VDR-045A-4	44	R3	VX1-3
	40	ACH550-VDR-059A-4	59	R4	VX1-4
	50	ACH550-VDR-072A-4	72	R4	VX1-4
	60	ACH550-VDR-078A-4	77	R4	VX1-4

Vertical Bypass with Circuit Breaker	1	ACH550-VCR-03A3-4	3.3	R1	VX1-1
	1.5	ACH550-VCR-03A3-4	3.3	R1	VX1-1
	2	ACH550-VCR-04A1-4	4.1	R1	VX1-1
	3	ACH550-VCR-06A9-4	6.9	R1	VX1-1
	5	ACH550-VCR-08A8-4	8.8	R1	VX1-1
	7.5	ACH550-VCR-012A-4	11.9	R1	VX1-1
	10	ACH550-VCR-015A-4	15.4	R2	VX1-2
	15	ACH550-VCR-023A-4	23	R2	VX1-2
	20	ACH550-VCR-031A-4	31	R3	VX1-3
	25	ACH550-VCR-038A-4	38	R3	VX1-3
	30	ACH550-VCR-045A-4	44	R3	VX1-3
	40	ACH550-VCR-059A-4	59	R4	VX1-4
	50	ACH550-VCR-072A-4	72	R4	VX1-4
	60	ACH550-VCR-078A-4	77	R4	VX1-4



AC DRIVES ACH550

480V Ratings for E-Clipse Bypass

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 460V¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 43	Dim. Ref. Page 44	Dim. Ref. Page 45
E-Clipse Bypass with Non-Fused Disconnect Switch	1	ACH550-BDR-03A3-4	3.3	R1	BX1-1	BX12-1	BX3R-1
	1.5	ACH550-BDR-03A3-4	3.3	R1	BX1-1	BX12-1	BX3R-1
	2	ACH550-BDR-04A1-4	4.1	R1	BX1-1	BX12-1	BX3R-1
	3	ACH550-BDR-06A9-4	6.9	R1	BX1-1	BX12-1	BX3R-1
	5	ACH550-BDR-08A8-4	8.8	R1	BX1-1	BX12-1	BX3R-1
	7.5	ACH550-BDR-012A-4	11.9	R1	BX1-1	BX12-1	BX3R-1
	10	ACH550-BDR-015A-4	15.4	R2	BX1-2	BX12-2	BX3R-2
	15	ACH550-BDR-023A-4	23	R2	BX1-2	BX12-2	BX3R-2
	20	ACH550-BDR-031A-4	31	R3	BX1-3	BX12-3	BX3R-3
	25	ACH550-BDR-038A-4	38	R3	BX1-3	BX12-3	BX3R-3
	30	ACH550-BDR-045A-4	44	R3	BX1-3	BX12-3	BX3R-3
	40	ACH550-BDR-059A-4	59	R4	BX1-4	BX12-4	BX3R-4
	50	ACH550-BDR-072A-4	72	R4	BX1-4	BX12-4	BX3R-4
	60	ACH550-BDR-078A-4	77	R4	BX1-4	BX12-4	BX3R-4
	75	ACH550-BDR-097A-4	96	R4	BX1-5	BX12-5	BX3R-5*
	100	ACH550-BDR-125A-4	124	R5	BX1-5	BX12-5	BX3R-6
	125	ACH550-BDR-157A-4	157	R6	BX1-6	BX12-6	BX3R-6
	150	ACH550-BDR-180A-4	180	R6	BX1-6	BX12-6	BX3R-6
	200	ACH550-BDR-246A-4	245	R6	BX1-6	BX12-6	BX3R-7
	250	ACH550-BDR-316A-4	316	R8	BX1-8	BX12-8	Consult Factory
	300	ACH550-BDR-368A-4	368	R8	BX1-8	BX12-8	
	350	ACH550-BDR-414A-4	414	R8	BX1-8	BX12-8	
	400	ACH550-BDR-486A-4	486	R8	BX1-8	BX12-8	

E-Clipse Bypass with Circuit Breaker	1	ACH550-BCR-03A3-4	3.3	R1	BX1-1	BX12-1	BX3R-1
	1.5	ACH550-BCR-03A3-4	3.3	R1	BX1-1	BX12-1	BX3R-1
	2	ACH550-BCR-04A1-4	4.1	R1	BX1-1	BX12-1	BX3R-1
	3	ACH550-BCR-06A9-4	6.9	R1	BX1-1	BX12-1	BX3R-1
	5	ACH550-BCR-08A8-4	8.8	R1	BX1-1	BX12-1	BX3R-1
	7.5	ACH550-BCR-012A-4	11.9	R1	BX1-1	BX12-1	BX3R-1
	10	ACH550-BCR-015A-4	15.4	R2	BX1-2	BX12-2	BX3R-2
	15	ACH550-BCR-023A-4	23	R2	BX1-2	BX12-2	BX3R-2
	20	ACH550-BCR-031A-4	31	R3	BX1-3	BX12-3	BX3R-3
	25	ACH550-BCR-038A-4	38	R3	BX1-3	BX12-3	BX3R-3
	30	ACH550-BCR-045A-4	44	R3	BX1-3	BX12-3	BX3R-3
	40	ACH550-BCR-059A-4	59	R4	BX1-4	BX12-4	BX3R-4
	50	ACH550-BCR-072A-4	72	R4	BX1-4	BX12-4	BX3R-4
	60	ACH550-BCR-078A-4	77	R4	BX1-4	BX12-4	BX3R-4
	75	ACH550-BCR-097A-4	96	R4	BX1-5	BX12-5	BX3R-5*
	100	ACH550-BCR-125A-4	124	R5	BX1-5	BX12-5	BX3R-6
	125	ACH550-BCR-157A-4	157	R6	BX1-6	BX12-6	BX3R-6
	150	ACH550-BCR-180A-4	180	R6	BX1-6	BX12-6	BX3R-6
	200	ACH550-BCR-246A-4	245	R6	BX1-6	BX12-6	BX3R-7
	250	ACH550-BCR-316A-4	316	R8	BX1-8	BX12-8	Consult Factory
	300	ACH550-BCR-368A-4	368	R8	BX1-8	BX12-8	
	350	ACH550-BCR-414A-4	414	R8	BX1-8	BX12-8	
	400	ACH550-BCR-486A-4	486	R8	BX1-8	BX12-8	

* Dimension references change from BX3R-5 to BX3R-6 with the addition of the AC Line Reactor (+E213) option.

480V Ratings for Classic Bypass

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 460V¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 46	Dim. Ref. Page 47	Dim. Ref. Page 48
Classic Bypass with Non-Fused Disconnect Switch	1	ACH550-CD-03A3-4	3.3	R1	CX1-1	CX12-1	CX3R-1
	1.5	ACH550-CD-03A3-4	3.3	R1	CX1-1	CX12-1	CX3R-1
	2	ACH550-CD-04A1-4	4.1	R1	CX1-1	CX12-1	CX3R-1
	3	ACH550-CD-06A9-4	6.9	R1	CX1-1	CX12-1	CX3R-1
	5	ACH550-CD-08A8-4	8.8	R1	CX1-1	CX12-1	CX3R-1
	7.5	ACH550-CD-012A-4	12	R1	CX1-1	CX12-1	CX3R-1
	10	ACH550-CD-015A-4	15	R2	CX1-2	CX12-2 *	CX3R-2
	15	ACH550-CD-023A-4	23	R2	CX1-2	CX12-2 *	CX3R-2
	20	ACH550-CD-031A-4	31	R3	CX1-4	CX12-4	CX3R-3
	25	ACH550-CD-038A-4	38	R3	CX1-4	CX12-4	CX3R-3
	30	ACH550-CD-045A-4	44	R3	CX1-4	CX12-5	CX3R-3
	40	ACH550-CD-059A-4	59	R4	CX1-5	CX12-6	CX3R-4
	50	ACH550-CD-072A-4	72	R4	CX1-5	CX12-6	CX3R-4
	60	ACH550-CD-078A-4	77	R4	CX1-5	CX12-6	CX3R-4
	75	ACH550-CD-097A-4	96	R4	CX1-6	CX12-7	CX3R-5
	100	ACH550-CD-125A-4	124	R5	CX1-7	CX12-8	CX3R-6
	125	ACH550-CD-157A-4	157	R6	CX1-10	CX12-9	CX3R-7
	150	ACH550-CD-180A-4	180	R6	CX1-10	CX12-9	CX3R-7
	200	ACH550-CD-246A-4	245	R6	CX1-11	CX12-10	CX3R-8
	250	ACH550-CD-316A-4	316	R8	CX1-12	CX12-11	Contact Factory
	300	ACH550-CD-368A-4	368	R8	CX1-13	CX12-12	
	350	ACH550-CD-414A-4	414	R8	CX1-13	CX12-12	
	400	ACH550-CD-486A-4	486	R8	CX1-13	CX12-12	

Classic Bypass with Circuit Breaker	1	ACH550-CC-03A3-4	3.3	R1	CX1-1	CX12-1	CX3R-1
	1.5	ACH550-CC-03A3-4	3.3	R1	CX1-1	CX12-1	CX3R-1
	2	ACH550-CC-04A1-4	4.1	R1	CX1-1	CX12-1	CX3R-1
	3	ACH550-CC-06A9-4	6.9	R1	CX1-1	CX12-1	CX3R-1
	5	ACH550-CC-08A8-4	8.8	R1	CX1-1	CX12-1	CX3R-1
	7.5	ACH550-CC-012A-4	12	R1	CX1-1	CX12-1	CX3R-1
	10	ACH550-CC-015A-4	15	R2	CX1-2	CX12-2*	CX3R-2
	15	ACH550-CC-023A-4	23	R2	CX1-2	CX12-2*	CX3R-2
	20	ACH550-CC-031A-4	31	R3	CX1-4	CX12-4	CX3R-3
	25	ACH550-CC-038A-4	38	R3	CX1-4	CX12-4	CX3R-3
	30	ACH550-CC-045A-4	44	R3	CX1-4	CX12-5	CX3R-3
	40	ACH550-CC-059A-4	59	R4	CX1-5	CX12-6	CX3R-4
	50	ACH550-CC-072A-4	72	R4	CX1-5	CX12-6	CX3R-4
	60	ACH550-CC-078A-4	77	R4	CX1-5	CX12-6	CX3R-4
	75	ACH550-CC-097A-4	96	R4	CX1-6	CX12-7	CX3R-5
	100	ACH550-CC-125A-4	124	R5	CX1-7	CX12-8	CX3R-6
	125	ACH550-CC-157A-4	157	R6	CX1-10	CX12-9	CX3R-7
	150	ACH550-CC-180A-4	180	R6	CX1-10	CX12-9	CX3R-7
	200	ACH550-CC-246A-4	245	R6	CX1-11	CX12-10	CX3R-8
	250	ACH550-CC-316A-4	316	R8	CX1-12	CX12-11	Contact Factory
	300	ACH550-CC-368A-4	368	R8	CX1-13	CX12-12	
	350	ACH550-CC-414A-4	414	R8	CX1-13	CX12-12	
	400	ACH550-CC-486A-4	486	R8	CX1-13	CX12-12	

* Dimension references change from CX12-2 to CX12-3 with the addition of the AC Line Reactor (+E213) option.



AC DRIVES ACH550

480V Ratings for Drive with Input Disconnect

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 460V¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 49	Dim. Ref. Page 50	Dim. Ref. Page 51
Drive with Disconnect Switch and Fuses	1	ACH550-PDR-03A3-4	3.3	R1	PX1-1	PX12-1	PX3R-1
	1.5	ACH550-PDR-03A3-4	3.3	R1	PX1-1	PX12-1	PX3R-1
	2	ACH550-PDR-04A1-4	4.1	R1	PX1-1	PX12-1	PX3R-1
	3	ACH550-PDR-06A9-4	6.9	R1	PX1-1	PX12-1	PX3R-1
	5	ACH550-PDR-08A8-4	8.8	R1	PX1-1	PX12-1	PX3R-1
	7.5	ACH550-PDR-012A-4	11.9	R1	PX1-1	PX12-1	PX3R-1
	10	ACH550-PDR-015A-4	15.4	R2	PX1-2	PX12-2	PX3R-2
	15	ACH550-PDR-023A-4	23	R2	PX1-2	PX12-2	PX3R-2
	20	ACH550-PDR-031A-4	31	R3	PX1-3	PX12-3	PX3R-3
	25	ACH550-PDR-038A-4	38	R3	PX1-3	PX12-3	PX3R-3
	30	ACH550-PDR-045A-4	44	R3	PX1-3	PX12-3	PX3R-3
	40	ACH550-PDR-059A-4	59	R4	PX1-4	PX12-4	PX3R-4
	50	ACH550-PDR-072A-4	72	R4	PX1-4	PX12-4	PX3R-4
	60	ACH550-PDR-078A-4	77	R4	PX1-4	PX12-4	PX3R-4
	75	ACH550-PDR-097A-4	96	R4	PX1-5	PX12-5	PX3R-5
	100	ACH550-PDR-125A-4	124	R5	PX1-5	PX12-5	PX3R-6
	125	ACH550-PDR-157A-4	157	R6	PX1-6	PX12-6	PX3R-6
	150	ACH550-PDR-180A-4	180	R6	PX1-6	PX12-6	PX3R-6
	200	ACH550-PDR-246A-4	245	R6	PX1-6	PX12-6	PX3R-6
	250	ACH550-PDR-316A-4	316	R8	PX1-8	PX12-8	Contact Factory
	300	ACH550-PDR-368A-4	368	R8	PX1-8	PX12-8	
	350	ACH550-PDR-414A-4	414	R8	PX1-8	PX12-8	
	400	ACH550-PDR-486A-4	486	R8	PX1-8	PX12-8	
	450	ACH550-PDR-526A-4	526	R8	PX1-8	PX12-8	
	500	ACH550-PDR-602A-4	602	R8	PX1-8	PX12-8	
	550	ACH550-PDR-645A-4	645	R8	PX1-8	PX12-8	

Drive with Circuit Breaker	1	ACH550-PCR-03A3-4	3.3	R1	PX1-1	PX12-1	PX3R-1
	1.5	ACH550-PCR-03A3-4	3.3	R1	PX1-1	PX12-1	PX3R-1
	2	ACH550-PCR-04A1-4	4.1	R1	PX1-1	PX12-1	PX3R-1
	3	ACH550-PCR-06A9-4	6.9	R1	PX1-1	PX12-1	PX3R-1
	5	ACH550-PCR-08A8-4	8.8	R1	PX1-1	PX12-1	PX3R-1
	7.5	ACH550-PCR-012A-4	11.9	R1	PX1-1	PX12-1	PX3R-1
	10	ACH550-PCR-015A-4	15.4	R2	PX1-2	PX12-2	PX3R-2
	15	ACH550-PCR-023A-4	23	R2	PX1-2	PX12-2	PX3R-2
	20	ACH550-PCR-031A-4	31	R3	PX1-3	PX12-3	PX3R-3
	25	ACH550-PCR-038A-4	38	R3	PX1-3	PX12-3	PX3R-3
	30	ACH550-PCR-045A-4	44	R3	PX1-3	PX12-3	PX3R-3
	40	ACH550-PCR-059A-4	59	R4	PX1-4	PX12-4	PX3R-4
	50	ACH550-PCR-072A-4	72	R4	PX1-4	PX12-4	PX3R-4
	60	ACH550-PCR-078A-4	77	R4	PX1-4	PX12-4	PX3R-4
	75	ACH550-PCR-097A-4	96	R4	PX1-5	PX12-5	PX3R-5
	100	ACH550-PCR-125A-4	124	R5	PX1-5	PX12-5	PX3R-6
	125	ACH550-PCR-157A-4	157	R6	PX1-6	PX12-6	PX3R-6
	150	ACH550-PCR-180A-4	180	R6	PX1-6	PX12-6	PX3R-6
	200	ACH550-PCR-246A-4	245	R6	PX1-6	PX12-6	PX3R-6
	250	ACH550-PCR-316A-4	316	R8	PX1-8	PX12-8	Contact Factory
	300	ACH550-PCR-368A-4	368	R8	PX1-8	PX12-8	
	350	ACH550-PCR-414A-4	414	R8	PX1-8	PX12-8	
	400	ACH550-PCR-486A-4	486	R8	PX1-8	PX12-8	
	450	ACH550-PCR-526A-4	526	R8	PX1-8	PX12-8	
	500	ACH550-PCR-602A-4	602	R8	PX1-8	PX12-8	
	550	ACH550-PCR-645A-4	645	R8	PX1-8	PX12-8	



600V Ratings for Base Drive

3-phase supply voltage 500, 575 or 600V - Power ratings are valid at nominal voltage, 600V¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 40	Dim. Ref. Page 41
Base Drive ⁷	2	ACH550-UH-02A7-6	2.7	R2	UH1-2	UH12-2
	3	ACH550-UH-03A9-6	3.9	R2	UH1-2	UH12-2
	5	ACH550-UH-06A1-6	6.1	R2	UH1-2	UH12-2
	7.5	ACH550-UH-09A0-6	9	R2	UH1-2	UH12-2
	10	ACH550-UH-011A-6	11	R2	UH1-2	UH12-2
	15	ACH550-UH-017A-6	17	R2	UH1-2	UH12-2
	20	ACH550-UH-022A-6	22	R3	UH1-3	UH12-3
	25	ACH550-UH-027A-6	27	R3	UH1-3	UH12-3
	30	ACH550-UH-032A-6	32	R4	UH1-4	UH12-4
	40	ACH550-UH-041A-6	41	R4	UH1-4	UH12-4
	50	ACH550-UH-052A-6	52	R4	UH1-4	UH12-4
	60	ACH550-UH-062A-6	62	R4	UH1-4	UH12-4
	75	ACH550-UH-077A-6	77	R6	UH1-6	UH12-6
	100	ACH550-UH-099A-6	99	R6	UH1-6	UH12-6
	125	ACH550-UH-125A-6	125	R6	UH1-6	UH12-6
	150	ACH550-UH-144A-6	144	R6	UH1-6	UH12-6

NOTES

- 1 The rated current of the ACH550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- 2 Horsepower is based on NEMA motor ratings for most 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.
- 3 Continuous base current with 110% overload for 1 minute / 10 minutes.
130% continuous base current available for 2 seconds / 1 minute.
Current ratings do not change with different supply voltages.
- 7 All -UH models -02A7-6 through -144A-6 come with a conduit box as standard.



600V Ratings for Vertical E-Clipse Bypass

3-phase supply voltage 500, 575 or 600V - Power ratings are valid at nominal voltage, 600V¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 42
Vertical Bypass with Non-Fused Disconnect Switch	2	ACH550-VDR-02A7-6	2.7	R2	VX1-2
	3	ACH550-VDR-03A9-6	3.9	R2	VX1-2
	5	ACH550-VDR-06A1-6	6.4	R2	VX1-2
	7.5	ACH550-VDR-09A0-6	9	R2	VX1-2
	10	ACH550-VDR-011A-6	11	R2	VX1-2
	15	ACH550-VDR-017A-6	17	R2	VX1-2
	20	ACH550-VDR-022A-6	22	R3	VX1-3
	25	ACH550-VDR-027A-6	27	R3	VX1-3
	30	ACH550-VDR-032A-6	32	R4	VX1-4
	40	ACH550-VDR-041A-6	41	R4	VX1-4
	50	ACH550-VDR-052A-6	52	R4	VX1-4
	60	ACH550-VDR-062A-6	62	R4	VX1-4
Vertical Bypass with Circuit Breaker	2	ACH550-VCR-02A7-6	2.7	R2	VX1-2
	3	ACH550-VCR-03A9-6	3.9	R2	VX1-2
	5	ACH550-VCR-06A1-6	6.1	R2	VX1-2
	7.5	ACH550-VCR-09A0-6	9	R2	VX1-2
	10	ACH550-VCR-011A-6	11	R2	VX1-2
	15	ACH550-VCR-017A-6	17	R2	VX1-2
	20	ACH550-VCR-022A-6	22	R3	VX1-3
	25	ACH550-VCR-027A-6	27	R3	VX1-3
	30	ACH550-VCR-032A-6	32	R4	VX1-4
	40	ACH550-VCR-041A-6	41	R4	VX1-4
	50	ACH550-VCR-052A-6	52	R4	VX1-4
	60	ACH550-VCR-062A-6	62	R4	VX1-4



600V Ratings for E-Clipse Bypass

3-phase supply voltage 500, 575 or 600V - Power ratings are valid at nominal voltage, 600V¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 43	Dim. Ref. Page 44	Dim. Ref. Page 45
E-Clipse Bypass with Non-Fused Disconnect Switch	2	ACH550-BDR-02A7-6	2.7	R2	BX1-2	BX12-2	BX3R-2
	3	ACH550-BDR-03A9-6	3.9	R2	BX1-2	BX12-2	BX3R-2
	5	ACH550-BDR-06A1-6	6.1	R2	BX1-2	BX12-2	BX3R-2
	7.5	ACH550-BDR-09A0-6	9	R2	BX1-2	BX12-2	BX3R-2
	10	ACH550-BDR-011A-6	11	R2	BX1-2	BX12-2	BX3R-2
	15	ACH550-BDR-017A-6	17	R2	BX1-2	BX12-2	BX3R-2
	20	ACH550-BDR-022A-6	22	R3	BX1-3	BX12-3	BX3R-3
	25	ACH550-BDR-027A-6	27	R3	BX1-3	BX12-3	BX3R-3
	30	ACH550-BDR-032A-6	32	R4	BX1-4	BX12-4	BX3R-4
	40	ACH550-BDR-041A-6	41	R4	BX1-4	BX12-4	BX3R-4
	50	ACH550-BDR-052A-6	51	R4	BX1-4	BX12-4	BX3R-4
	60	ACH550-BDR-062A-6	61	R4	BX1-4	BX12-4	BX3R-4
	75	ACH550-BDR-077A-6	77	R6	BX1-6	BX12-6	BX3R-6
	100	ACH550-BDR-099A-6	99	R6	BX1-6	BX12-6	BX3R-6
	125	ACH550-BDR-125A-6	125	R6	BX1-6	BX12-6	BX3R-6
	150	ACH550-BDR-144A-6	144	R6	BX1-6	BX12-6	BX3R-6

E-Clipse Bypass with Circuit Breaker	2	ACH550-BCR-02A7-6	2.7	R2	BX1-2	BX12-2	BX3R-2
	3	ACH550-BCR-03A9-6	3.9	R2	BX1-2	BX12-2	BX3R-2
	5	ACH550-BCR-06A1-6	6.1	R2	BX1-2	BX12-2	BX3R-2
	7.5	ACH550-BCR-09A0-6	9	R2	BX1-2	BX12-2	BX3R-2
	10	ACH550-BCR-011A-6	11	R2	BX1-2	BX12-2	BX3R-2
	15	ACH550-BCR-017A-6	17	R2	BX1-2	BX12-2	BX3R-2
	20	ACH550-BCR-022A-6	22	R3	BX1-3	BX12-3	BX3R-3
	25	ACH550-BCR-027A-6	27	R3	BX1-3	BX12-3	BX3R-3
	30	ACH550-BCR-032A-6	32	R4	BX1-4	BX12-4	BX3R-4
	40	ACH550-BCR-041A-6	41	R4	BX1-4	BX12-4	BX3R-4
	50	ACH550-BCR-052A-6	51	R4	BX1-4	BX12-4	BX3R-4
	60	ACH550-BCR-062A-6	61	R4	BX1-4	BX12-4	BX3R-4
	75	ACH550-BCR-077A-6	77	R6	BX1-6	BX12-6	BX3R-6
	100	ACH550-BCR-099A-6	99	R6	BX1-6	BX12-6	BX3R-6
	125	ACH550-BCR-125A-6	125	R6	BX1-6	BX12-6	BX3R-6
	150	ACH550-BCR-144A-6	144	R6	BX1-6	BX12-6	BX3R-6



600V Ratings for Classic Bypass

3-phase supply voltage 500, 575 or 600V - Power ratings are valid at nominal voltage, 600V¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 46	Dim. Ref. Page 47	Dim. Ref. Page 48
Classic Bypass with Non-Fused Disconnect Switch	2	ACH550-CD-02A7-6	2.7	R2	CX1-2	CX12-2*	CX3R-2
	3	ACH550-CD-03A9-6	3.9	R2	CX1-2	CX12-2*	CX3R-2
	5	ACH550-CD-06A1-6	6.1	R2	CX1-2	CX12-2*	CX3R-2
	7.5	ACH550-CD-09A0-6	9	R2	CX1-2	CX12-2*	CX3R-2
	10	ACH550-CD-011A-6	11	R2	CX1-2	CX12-2*	CX3R-2
	15	ACH550-CD-017A-6	17	R2	CX1-2	CX12-2*	CX3R-2
	20	ACH550-CD-022A-6	22	R3	CX1-4	CX12-4	CX3R-3
	25	ACH550-CD-027A-6	27	R3	CX1-4	CX12-4	CX3R-3
	30	ACH550-CD-032A-6	32	R4	CX1-5	CX12-6	CX3R-4
	40	ACH550-CD-041A-6	41	R4	CX1-5	CX12-6	CX3R-4
	50	ACH550-CD-052A-6	52	R4	CX1-5	CX12-6	CX3R-4
	60	ACH550-CD-062A-6	62	R4	CX1-5	CX12-6	CX3R-4
	75	ACH550-CD-077A-6	77	R6	CX1-8	CX12-9	CX3R-7
	100	ACH550-CD-099A-6	99	R6	CX1-8	CX12-9	CX3R-7
	125	ACH550-CD-125A-6	125	R6	CX1-10	CX12-9	CX3R-7
	150	ACH550-CD-144A-6	144	R6	CX1-10	CX12-9	CX3R-7
Classic Bypass with Circuit Breaker	2	ACH550-CC-02A7-6	2.7	R2	CX1-2	CX12-2*	CX3R-2
	3	ACH550-CC-03A9-6	3.9	R2	CX1-2	CX12-2*	CX3R-2
	5	ACH550-CC-06A1-6	6.1	R2	CX1-2	CX12-2*	CX3R-2
	7.5	ACH550-CC-09A0-6	9	R2	CX1-2	CX12-2*	CX3R-2
	10	ACH550-CC-011A-6	11	R2	CX1-2	CX12-2*	CX3R-2
	15	ACH550-CC-017A-6	17	R2	CX1-2	CX12-2*	CX3R-2
	20	ACH550-CC-022A-6	22	R3	CX1-4	CX12-4	CX3R-3
	25	ACH550-CC-027A-6	27	R3	CX1-4	CX12-4	CX3R-3
	30	ACH550-CC-032A-6	32	R4	CX1-5	CX12-6	CX3R-4
	40	ACH550-CC-041A-6	41	R4	CX1-5	CX12-6	CX3R-4
	50	ACH550-CC-052A-6	52	R4	CX1-5	CX12-6	CX3R-4
	60	ACH550-CC-062A-6	62	R4	CX1-5	CX12-6	CX3R-4
	75	ACH550-CC-077A-6	77	R6	CX1-8	CX12-9	CX3R-7
	100	ACH550-CC-099A-6	99	R6	CX1-8	CX12-9	CX3R-7
	125	ACH550-CC-125A-6	125	R6	CX1-10	CX12-9	CX3R-7
	150	ACH550-CC-144A-6	144	R6	CX1-10	CX12-9	CX3R-7

* Dimension references change from CX12-2 to CX12-3 with the addition of the AC Line Reactor (+E213) option



600V Ratings for Drive with Input Disconnect

3-phase supply voltage 500, 575 or 600V - Power ratings are valid at nominal voltage, 600V¹

	HP ²	Material Description	Amps ³	Base Drive Frame	Dim. Ref. Page 49	Dim. Ref. Page 50	Dim. Ref. Page 51
Drive with Disconnect Switch and Fuses	2	ACH550-PDR-02A7-6	2.7	R2	PX1-2	PX12-2	PX3R-2
	3	ACH550-PDR-03A9-6	3.9	R2	PX1-2	PX12-2	PX3R-2
	5	ACH550-PDR-06A1-6	6.1	R2	PX1-2	PX12-2	PX3R-2
	7.5	ACH550-PDR-09A0-6	9	R2	PX1-2	PX12-2	PX3R-2
	10	ACH550-PDR-011A-6	11	R2	PX1-2	PX12-2	PX3R-2
	15	ACH550-PDR-017A-6	17	R2	PX1-2	PX12-2	PX3R-2
	20	ACH550-PDR-022A-6	22	R3	PX1-3	PX12-3	PX3R-3
	25	ACH550-PDR-027A-6	27	R3	PX1-3	PX12-3	PX3R-3
	30	ACH550-PDR-032A-6	32	R4	PX1-4	PX12-4	PX3R-4
	40	ACH550-PDR-041A-6	41	R4	PX1-4	PX12-4	PX3R-4
	50	ACH550-PDR-052A-6	52	R4	PX1-4	PX12-4	PX3R-4
	60	ACH550-PDR-062A-6	62	R4	PX1-4	PX12-4	PX3R-4
	75	ACH550-PDR-077A-6	77	R6	PX1-6	PX12-6	PX3R-6
	100	ACH550-PDR-099A-6	99	R6	PX1-6	PX12-6	PX3R-6
	125	ACH550-PDR-125A-6	125	R6	PX1-6	PX12-6	PX3R-6
	150	ACH550-PDR-144A-6	144	R6	PX1-6	PX12-6	PX3R-6

Drive with Circuit Breaker	2	ACH550-PCR-02A7-6	2.7	R2	PX1-2	PX12-2	PX3R-2
	3	ACH550-PCR-03A9-6	3.9	R2	PX1-2	PX12-2	PX3R-2
	5	ACH550-PCR-06A1-6	6.1	R2	PX1-2	PX12-2	PX3R-2
	7.5	ACH550-PCR-09A0-6	9	R2	PX1-2	PX12-2	PX3R-2
	10	ACH550-PCR-011A-6	11	R2	PX1-2	PX12-2	PX3R-2
	15	ACH550-PCR-017A-6	17	R2	PX1-2	PX12-2	PX3R-2
	20	ACH550-PCR-022A-6	22	R3	PX1-3	PX12-3	PX3R-3
	25	ACH550-PCR-027A-6	27	R3	PX1-3	PX12-3	PX3R-3
	30	ACH550-PCR-032A-6	32	R4	PX1-4	PX12-4	PX3R-4
	40	ACH550-PCR-041A-6	41	R4	PX1-4	PX12-4	PX3R-4
	50	ACH550-PCR-052A-6	52	R4	PX1-4	PX12-4	PX3R-4
	60	ACH550-PCR-062A-6	62	R4	PX1-4	PX12-4	PX3R-4
	75	ACH550-PCR-077A-6	77	R6	PX1-6	PX12-6	PX3R-6
	100	ACH550-PCR-099A-6	99	R6	PX1-6	PX12-6	PX3R-6
	125	ACH550-PCR-125A-6	125	R6	PX1-6	PX12-6	PX3R-6
	150	ACH550-PCR-144A-6	144	R6	PX1-6	PX12-6	PX3R-6



AC DRIVES ACH550

Options Quick Reference

Description		Field Kit Part No.	Installed Option Code
Input / Output Option Modules			
OREL-01	Relay Output Extension	OREL-01-KIT	+L511
OHDI-01	115/230 V Digital Input Interface	OHDI-01-KIT	+L512
Field Bus Adapters			
"R" type Field Bus Adapters for use with -UH and -PxR configurations			
RDNA-01	DeviceNet Adapter	RDNA-01-KIT	+K451
RCNA-01	ControlNet Adapter	RCNA-01-KIT	+K462
RETA-01	EtherNet Adapter	RETA-01-KIT	+K466
RLON-01	LonWorks Adapter	RLON-01-KIT	+K452
RPBA-01	Profibus DP Adapter	RPBA-01-KIT	+K454
"F" type Field Bus Adapters for use with -VxR and -BxR configurations			
FDNA-01	DeviceNet Adapter	FDNA-01-KIT	+K451
FENA-01	EtherNet Adapter	FENA-01-KIT	+K466
FLON-01	LonWorks Adapter	FLON-01-KIT	+K452
FPBA-01	Profibus DP Adapter	FPBA-01-KIT	+K454
SREA-01-KIT	Ethernet Adapter (Gateway)	SREA-01-KIT	N/A
RBIP-01-KIT	Bacnet Router	RBIP-01-KIT	N/A
Control Panel and Accessories			
ACH-CP-B	HVAC Advanced Control Panel	ACH-CP-B	N/A
OCAT-01	7 foot CAT 5 Panel Extension Cable	OCAT-01	N/A
ACS/H-CP-EXT	Control Panel Mounting Kit	ACS/H-CP-EXT	N/A
OPMP-01	Cabinet Panel Mounting Kit	OPMP-01	N/A
ACS/H-CP-EXT-IP66	INEMA 4X Cabinet Panel Mounting Kit	ACS/H-CP-EXT-IP66	N/A
Programming and Maintenance Tools			
DriveWindow Light 2.6 (Win98/2000/NT4/XP)		3AFE64532871	N/A
OPCA-01	RJ45 to DB9 Adapter	OPCA-01	N/A
ACH550 DEMO CASE	ACH550 Demo Case	ACH550 DEMO CASE	N/A
E-CLIPSE DEMO CASE	E-Clipse Bypass Demo Case	E-CLIPSE DEMO CASE	N/A
Flange Mounting Kit for NEMA 1 Drives			
FMK-A-R1	Flange Mounting Kit for NEMA 1 ACH550 (R1 Frame)	FMK-A-R1	N/A
FMK-A-R2	Flange Mounting Kit for NEMA 1 ACH550 (R2 Frame)	FMK-A-R2	N/A
FMK-A-R3	Flange Mounting Kit for NEMA 1 ACH550 (R3 Frame)	FMK-A-R3	N/A
FMK-A-R4	Flange Mounting Kit for NEMA 1 ACH550 (R4 Frame)	FMK-A-R4	N/A
AC8-FLNGMT-R5	Flange Mounting Kit for NEMA 1 ACH550 (R5 Frame)	AC8-FLNGMT-R5	N/A
AC8-FLNGMT-R6	Flange Mounting Kit for NEMA 1 ACH550 (R6 Frame)	AC8-FLNGMT-R6	N/A
Flange Mounting Gasket for NEMA 12 Drives			
FMK-B-R1	Flange Mounting Gasket for NEMA 12 ACH550 (R1 Frame)	FMK-B-R1	N/A
FMK-B-R2	Flange Mounting Gasket for NEMA 12 ACH550 (R2 Frame)	FMK-B-R2	N/A
FMK-B-R3	Flange Mounting Gasket for NEMA 12 ACH550 (R3 Frame)	FMK-B-R3	N/A
FMK-B-R4	Flange Mounting Gasket for NEMA 12 ACH550 (R4 Frame)	FMK-B-R4	N/A
Miscellaneous			
	Classic Bypass Damper Control	N/A	+G349



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Description		Field Kit Part No.	Catalog Code
Input/Output Options			
Relay Output Extension	The Relay Output Extension module offers three (3) Form C relay outputs numbered RO 4, 5 and 6, rated 2 A maximum current. Switching capacity is 6 A (24 VDRC resistive), 1500 VA (250 VAC), Each relay is galvanically isolated from each other (2.5 kVAC, 1 minute). Each relay is programmable,	OREL-01-KIT	+L511
115/230V Digital Input Interface	The 115/230V Digital Input Interface module offers six (6) 115/230V rated relays mounted on a common board used to drive DI1 through DI6 of the ACH550. The 115/230V must be provided by the user. The module cannot be used in conjunction with any fieldbus module and is not compatible with E-Cclipse Bypass Configurations.	OHDI-01-KIT	+L512
Fieldbus Adapters			
DeviceNet	The DeviceNet Adapter is used for connecting the ACH550 to DeviceNet networks. DeviceNet network uses a linear bus topology. Terminating resistors are required on each end of the trunk line. Drop lines as long as 6 meters (20 feet) each are permitted, allowing one or more nodes to be attached. DeviceNet allows branching structures only on drop lines. The drive is considered as a slave in the DeviceNet network. The RDNA-01 option card fits under the cover of the ACH550 in option slot #2. on -UH and -PxR configurations. The FDNA-01 option card fits under the cover of the E-Cclipse Bypass on -VxR and -BxR configurations.	RDNA-01-KIT (use with -UH and -PxR configurations)	+K451
		FDNA-01- KIT (use with -VxR & -BxR configurations)	+K451



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Description		Field Kit Part No.	Catalog Code
Fieldbus Adapters			
ControlNet Adapter	The ControlNet network uses a RG-6 quad shielded cable or fiber with support for media redundancy. The RCNA-01 Adapter module supports only RG-6 quad shielded cable (coax) for the bus connection. ControlNet is flexible in topology options (bus, tree, star) to meet various application needs. The fieldbus speed is 5 Mbits/s. The RCNA-01 ControlNet Adapter module can not originate connections on its own, but a scanner node can open a connection towards it. The ControlNet protocol is implemented according to the ControlNet international specification for a Communication adapter. The RCNA-01 option card fits under the cover of the ACH550 in option slot #2 on -UH and -PxR configurations. There is no available ControlNet option card for E-Cclipse Bypass configurations.	RCNA-01-KIT (ControlNet not available for E-Cclipse Bypass configurations)	+K462
Ethernet Adapter	The RETA-01 and FENA-01 Adapter modules support the Modbus/TCP and EtherNet/IP network protocols. Modbus/TCP is a variant of the Modbus family of simple, vendor-neutral communication protocols intended for supervision and control of automation equipment. The implementation of the Modbus/TCP server in the RETA-01 and FENA-01 modules is done according to the Modbus/TCP Specification 1.0. The Modbus/TCP protocol allows the RETA-01 and FENA-01 modules to be used as an Ethernet bridge to control the drive. The RETA-01 and FENA-01 modules support eight simultaneous IP connections. Ethernet/IP is based on the Common Industrial Protocol (CIP), which is also the framework for both the ControlNet and DeviceNet networks. Ethernet/IP uses standard Ethernet and TCP/IP technology to transport CIP communication packets. The modules fulfill all requirements for certification as an Ethernet/IP device. The RETA-01 option card fits under the cover of the ACH550 in option slot #2 on -UH and -PxR configurations. The FENA-01 option card fits under the cover of the E-Cclipse Bypass on -VxR and -BxR configurations.	RETA-01-KIT (use with -UH and -PxR configurations)	+K466
		FENA-01-KIT (use with -VxR & -BxR configurations)	+K466



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Description		Field Kit Part No.	Catalog Code
Fieldbus Adapters			
LonWorks	This adapter permits the ACH550 to communicate to a LonWorks network protocol. The LonWorks module uses the FT-X1 Free Topology Transceiver (compatible with FTT-10A transceiver) from Echelon Corporation. This is the most commonly used twisted-pair media in building automation and this architecture supports star, bus, and loop wiring. The FT-X1 transceiver connects to a twisted pair cable with a baud rate of 78 kbit/s and appears as a high impedance to the network when unpowered, hence it does not interfere with the network communications when powered down. The drive object realizes the LONMARK® Functional Profile: 'Variable Speed Motor Drive Version', 1.1. The RLON-01 option card fits under the cover of the ACH550 in option slot #2.	RLON-01-KIT (use with -UH and -PxR configurations)	+K452
		FLON-01- KIT (use with -VxR & -BxR configurations)	+K452
Profibus-DP	The Profibus Adapter is used for connecting the ACH550 to Profibus networks. The Profibus adapters are compatible with the Profibus-FMS and Profibus-DP protocols. ACH550 acts as a slave on the Profibus link. The connection is a screw connector, with a selectable Baud rate of 9.6, 19.2, 93.75, 187, 300 and 1500 Kbps. Contact Applications Engineering for approved PLC connectivity. Profibus is an open serial communication standard that enables data exchange between all kinds of automation components. The physical transmission medium of the bus is a twisted pair cable (according to the RS-485 standard). The maximum length of the bus cable is 100 to 1200 meters, depending on the selected transmission rate. Up to 31 stations can be connected to the same PROFIBUS system without the use of repeaters. The RPBA-01 option card fits under the cover of the ACH550 in option slot #2 on -UH and -PxR configurations. The FPBA-01 option card fits under the cover of the E-Clipse Bypass on -VxR and -BxR configurations.	RPBA-01-KIT (use with -UH and -PxR configurations)	+K454
		FPBA-01-KIT (use with -VxR & -BxR configurations)	+K454
Ethernet Adapter (Gateway)	SREA-01 is an optional device for web browser based remote interface to the ACH550 drives via ethernet. This din rail mounted adapter enables remote data acquisition through a standard web browser, utilizing an internal web server for drive configuration and access. Multiple drives (up to 10) can be connected to the Modbus-RTU network through the drive's Modbus-RTU port. The ACH550 can also be connected through the control panel port, although an additional RS-485 converter is needed for each drive if several drives are connected by their panel port.	SREA-01-KIT	N/A



AC DRIVES ACH550

Description		Field Kit Part No.	Catalog Code
Fieldbus Adapters			
BACnet Router	The RBIP-01 BACnet Router is a BACnet/IP to MS/TP router. One (1) RBIP-01 router can connect up to 31 drives to a BACnet MS/TP (EIA-485) network. RBIP-01 supports BBMD (BACnet Broadcast Management Device) functionality. The router mounts inside the drive enclosure. The X1 port provides an Ethernet connection to a BACnet/Ethernet or BACnet/IP network. It can be powered from the drive's internal power supply or from an external power supply (24 V AC or 24 V DC). The routers X3 terminal provides connection to an BACnet MS/TP (EIA-485) network. The router is also equipped with bus termination resistors, network bias resistors and LED's for status indication.	RBIP-01-KIT	N/A
Control Panel and Accessories			
Advanced Control Panel (spare/additional)	The Advanced Control Panel is supplied with the ACH550 drive as standard. To obtain additional control panels, specify this option.	ACH-CP-B	N/A
Panel Extension Cable	7 foot CAT 5 patch cable allows remote operation of the standard panel or connection of the drive to a PC using the RJ45/DB9 Adapter which must be purchased separately.	OCAT-01	N/A
Control Panel Mounting	Control Panel Mounting Kit for ACH550 drives allows remote mounting of the ACH550 keypad on the door of an enclosure. The kit includes a 10 ft (3 m) CAT 5 patch cable, gasket for NEMA 12, mounting hardware and drilling template. With this arrangement the panel is fixed to the mounting surface.	ACS/H-CP-EXT	N/A
Cabinet Panel Mounting Kit	The Control Panel Mounting allows remote mounting of an ACH-CP-B operator Panel on a larger enclosure or remotely. The kit maintains UL Type 12 integrity of the mounting location. Adapters, 3m (10ft) cable and mounting hardware are included in this kit. With this mounting arrangement, the operator panel is removable indential to a drive-mounted keypad.	OPMP-01	
NEMA 4X Cabinet Panel Mounting Kit	Allows remote mounting of the ACH-CP-B Operator Panels on a larger NEMA 4X (IP66) enclosure or remote panel. The kit maintains NEMA 4X integrity of the mounting location. All necessary hardware and a mounting template are provided in addition to a 3m panel cable. When mounted, the operator is not removable from the front of the enclosure. The operator must be purchased seperately.	ACS/H-CP-EXT-IP66	N/A



AC DRIVES ACH550

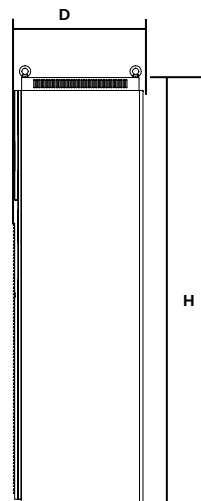
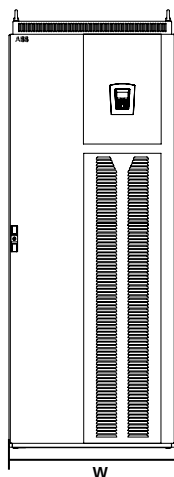
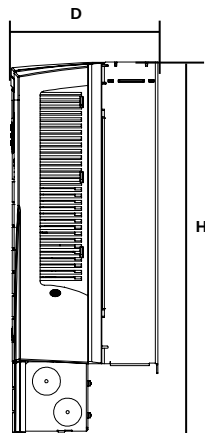
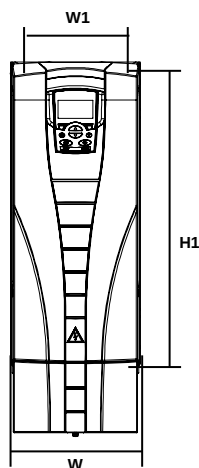
Description		Field Kit Part No.	Catalog Code
Programming and Maintenance Tools			
DriveWindow Light	DriveWindow Light is software designed for online drive commissioning and maintenance purposes. It is possible to adjust parameters, read the actual values and control the drive with DriveWindow Light instead of the drive control panel. It is also possible to follow trends and draw graphs. DriveWindow Light requires the use of a RJ45 to DB9 adapter and CAT 5 patch cable, which are provided.	3AFE645-32871	N/A
RJ45/DB9 Adapter	This adapter converts the drive's panel port RJ45 (CAT 5 cable connector) plug to a 9 pin RS-232 computer serial port connector for connecting the ACH550 to a PC when using DriveWindow Light 2.	OPCA-01	N/A
ACH550 Demo Case	Powered by 115VAC, the ACH550 DemoCase includes an ACH550 drive mounted on a panel. Included is a motor and I/O board with switches, pots, meters and LEDs permitting remote operation of the drive and motor.	ACH550 DEMO CASE	N/A
E-Clipse Bypass Demo Case	Powered by 115VAC, the E-Clipse Bypass Demo Case includes an E-Clipse bypass keypad and a control panel with I/O switches, LEDs and serial communication connections permitting operation of the bypass and connected ACH550 drive.	E-CLIPSE BYPASS DEMO CASE	N/A



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Description		Field Kit Part No.	Catalog Code	
Flange Mounting Kit for NEMA 1 Drives				
Flange Mounting Kits	Flange Mounting Kit for the ACH550 drives allows mounting the drive with the heatsink external to a 3rd party enclosure. Use of the flange kit requires removal of the drive cover, reducing protection to IP00. The flange kit can be used with 3rd party UL type 1 & 12 (NEMA 1 & 12) enclosures.	See Table	N/A	
	Frame Size			Field Kit Code
	R1 NEMA 1			FMK-A-R1
	R2 NEMA 1			FMK-A-R2
	R3 NEMA 1			FMK-A-R3
	R4 NEMA 1			FMK-A-R4
	R5 NEMA 1			AC8-FLNGMT-R5
	R6 NEMA 1			AC8-FLNGMT-R6
Flange Mounting Gasket for NEMA 12 Drives				
Flange Mounting Gasket	The flange gasket is for flange mounting NEMA 12 drives.	See Table	N/A	
	Frame Size			Field Kit Code
	R1 NEMA 12			FMK-B-R1
	R2 NEMA 12			FMK-B-R2
	R3 NEMA 12			FMK-B-R3
	R4 NEMA 12			FMK-B-R4
Miscellaneous				
Classic Bypass Damper Control	Additional components and control wiring to provide damper control function in the Classic Bypass. This function is standard in the E-Clipse Bypass.	N/A	+G349	

Dimensions: ACH550-UH UL Type 1 / NEMA 1 R1 through R8 Frame Size



Wall Mount (UH1-1 - UH1-6)

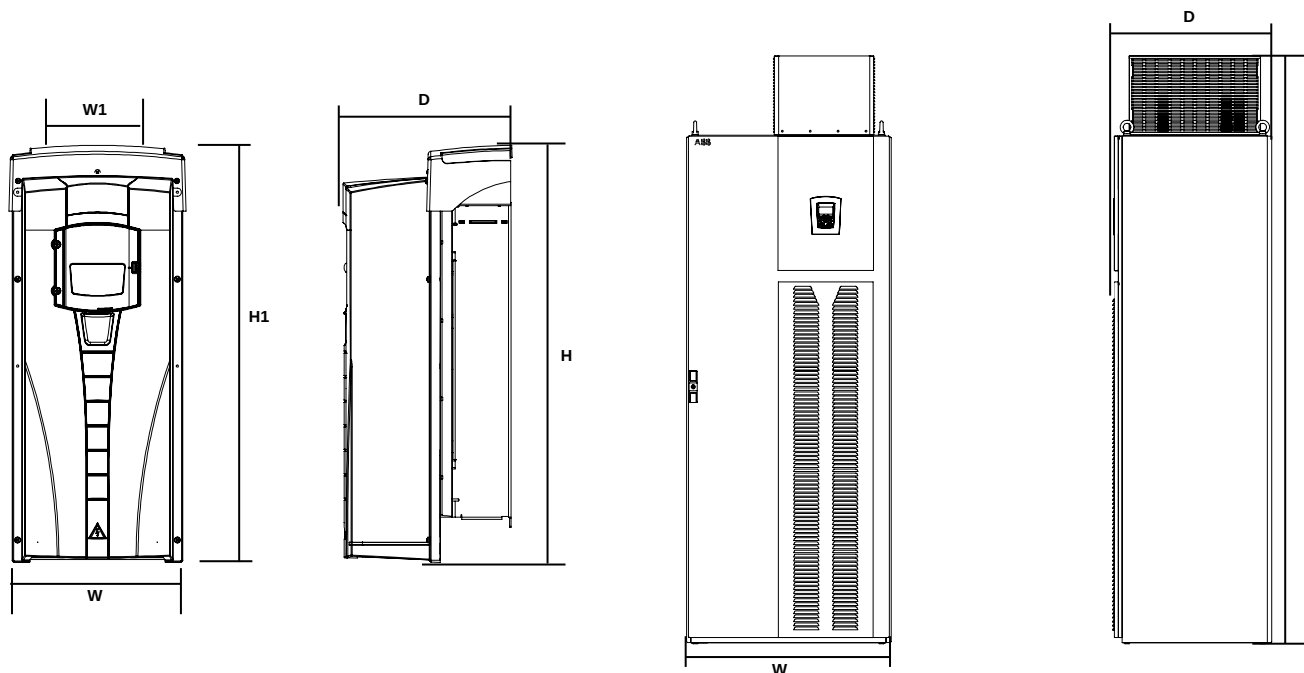
Floor Mount (UH1-8)

Dimension Reference	UL Type 1 / NEMA 1 Mounting Dimensions mm [inches]			UL Type 1 / NEMA 1 Dimensions and Weights mm kg [inches] [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
UH1-1	318 [12.5]	98 [3.9]	M5 [#10]	369 [14.5]	125 [4.9]	212 [8.3]	6.5 [14]	3AUA0000001559 Sheet 1
UH1-2	418 [16.4]	98 [3.9]	M5 [#10]	469 [18.5]	125 [4.9]	222 [8.7]	9 [20]	3AUA0000001560 Sheet 1
UH1-3	473 [18.6]	160 [6.3]	M5 [#10]	583 [23]	203 [8]	231 [9.1]	16 [35]	3AUA0000001571 Sheet 1
UH1-4	578 [22.8]	160 [6.3]	M5 [#10]	689 [27.1]	203 [8]	262 [10.3]	24 [53]	3AUA0000001572 Sheet 1
UH1-5	588 [23.1]	238 [9.4]	M6 [0.25]	736 [29]	267 [10.5]	286 [11.2]	34 [75]	3AUA0000004629 Sheet 1
UH1-6	675 [26.6]	263 [10.3]	M6 [0.25]	881 [34.7]	302 [11.9]	400 [15.7]	69 [152]	3AUA0000004633 Sheet 1
UH1-8	Free Standing		Ø16 [Ø0.63]	2125 [83.7]	806 [31.7]	639 [25.2]	354 [780]	3AUA0000021150 Sheet 1

Drawing is not for engineering purposes.

A larger conduit box provided on units with ratings above 200 amps extends the Height (H) dimension an additional 107 mm [4.2 inches].

Dimensions: ACH550-UH UL Type 12 / NEMA 12 R1 through R8 Frame Size



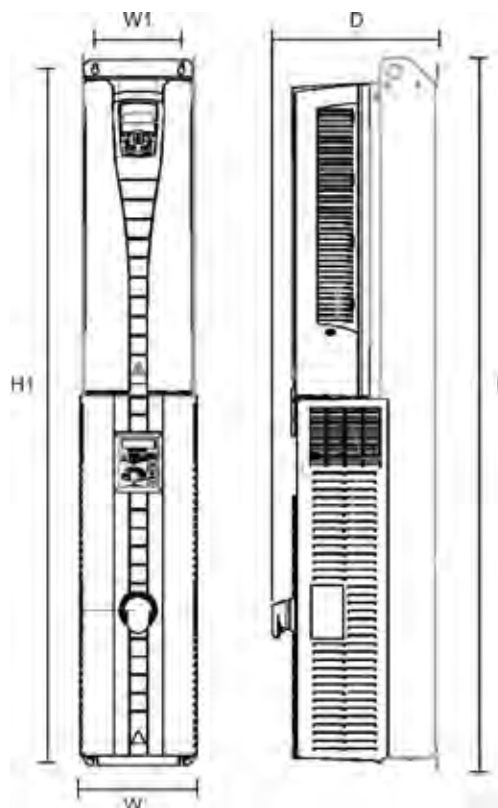
Wall Mount (UH12-1 - UH12-6)

Floor Mount (UH12-8)

Dimension Reference	UL Type 12 / NEMA 12 Mounting Dimensions mm [inches]			UL Type 12 / NEMA 12 Dimensions and Weights mm kg [inches] [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
UH12-1	318 [12.5]	98 [3.9]	M5 [#10]	461 [18.1]	222 [8.7]	234 [9.2]	8.2 [18]	3AUA0000004031 Sheet 1
UH12-2	418 [16.4]	98 [3.9]	M5 [#10]	561 [22.1]	222 [8.7]	245 [9.6]	11.2 [25]	3AUA0000004032 Sheet 1
UH12-3	473 [18.6]	160 [6.3]	M5 [#10]	629 [24.8]	267 [10.5]	253 [10]	18.5 [41]	3AUA0000004029 Sheet 1
UH12-4	578 [22.8]	160 [6.3]	M5 [#10]	760 [29.9]	267 [10.5]	284 [11.2]	26.5 [58]	3AUA0000004043 Sheet 1
UH12-5	588 [23.1]	238 [9.4]	M6 [0.25]	816 [32.1]	369 [14.5]	309 [12.1]	38.5 [85]	3AUA0000004634 Sheet 1
UH12-6	675 [26.6]	263 [10.3]	M6 [0.25]	984 [38.7]	410 [16.1]	423 [16.6]	86 [190]	3AUA0000004635 Sheet 1
UH12-8	Free Standing		Ø16 [Ø0.63]	2377 [93.6]	806 [31.7]	639 [25.2]	375 [827]	3AUA0000021151 Sheet 1

Drawing is not for engineering purposes.

Dimensions: ACH550-Vx UL Type 1 / NEMA 1 R1 through R4 Frame Size

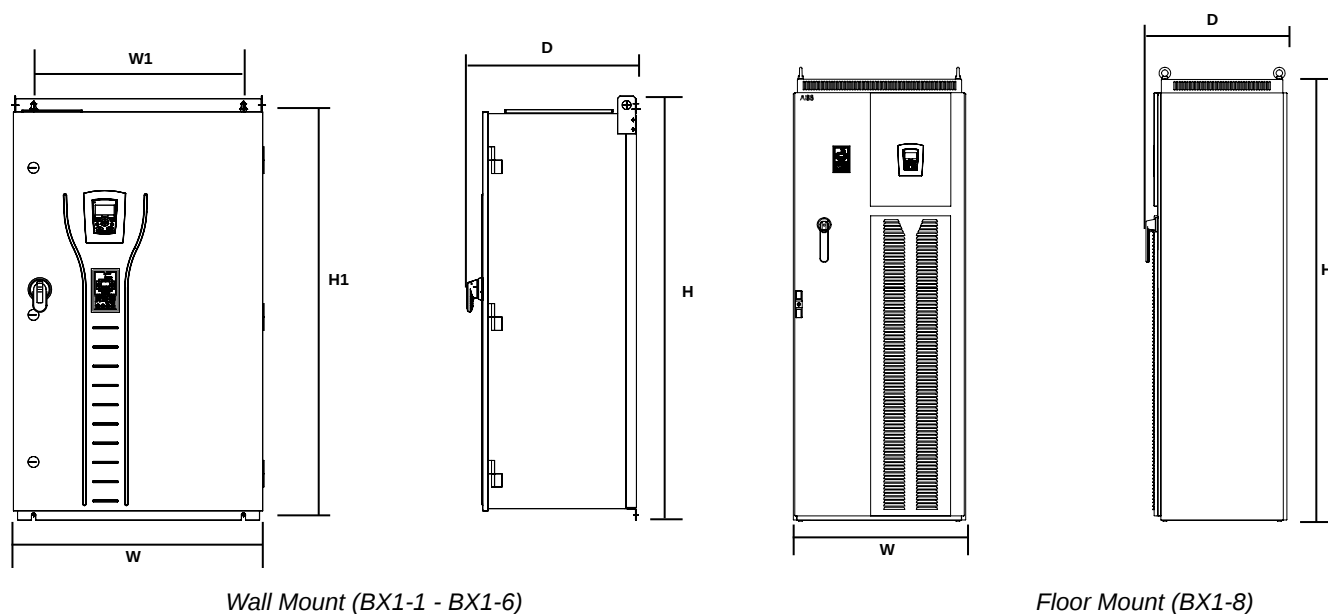


Wall Mount (VX1-1 - VX1-4)

Dimension Reference	UL Type 1 / NEMA 1 MountingDimensions mm [inches]			UL Type 1 / NEMA 1 Dimensions and Weights mm [inches] kg [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
VX1-1	1004 [39.5]	98 [3.9]	M6 [0.25]	1021 [40.2]	136 [5.4]	256 [10.1]	15 [33]	3AUA0000016371 Sheet 1
VX1-2	1103 [43.4]	98 [3.9]	M6 [0.25]	1120 [44.1]	136 [5.4]	262 [10.3]	18 [40]	3AUA0000016372 Sheet 1
VX1-3	1180 [46.5]	160 [6.3]	M6 [0.25]	1211 [47.7]	214 [8.4]	278 [10.9]	32 [71]	3AUA0000016373 Sheet 1
VX1-4	1285 [50.6]	160 [6.3]	M6 [0.25]	1316 [51.8]	214 [8.4]	307 [12.1]	42 [93]	3AUA0000016374 Sheet 1

Drawing is not for engineering purposes.

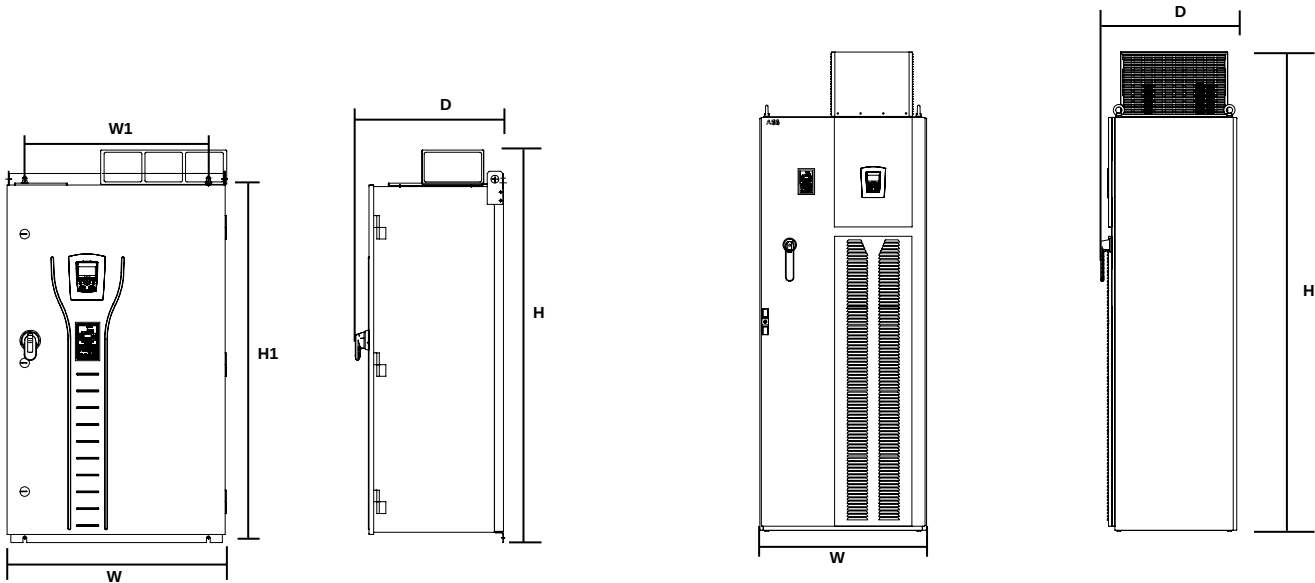
Dimensions: ACH550-BxR UL Type 1 / NEMA 1 R1 through R8 Frame Size



Dimension Reference	UL Type 1 / NEMA 1 Mounting Dimensions mm [inches]			UL Type 1 / NEMA 1 Dimensions and Weights mm [inches] kg [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
BX1-1	810 [31.9]	320 [12.6]	M10 [0.375]	842 [33.2]	443 [17.4]	343 [13.5]	35.4 [78]	3AUA0000016375 Sheet 1
BX1-2	810 [31.9]	320 [12.6]	M10 [0.375]	842 [33.2]	443 [17.4]	343 [13.5]	38.1 [84]	3AUA0000016375 Sheet 1
BX1-3	918 [36.1]	400 [15.7]	M10 [0.375]	950 [37.4]	521 [20.5]	389 [15.3]	54.4 [120]	3AUA0000016378 Sheet 1
BX1-4	918 [36.1]	400 [15.7]	M10 [0.375]	950 [37.4]	521 [20.5]	389 [15.3]	62.6 [138]	3AUA0000016378 Sheet 1
BX1-5	1175 [46.3]	600 [23.6]	M10 [0.375]	1212 [47.7]	713 [28.1]	483 [19]	121 [267]	3AUA0000016381 Sheet 1
BX1-6	1175 [46.3]	600 [23.6]	M10 [0.375]	1212 [47.7]	713 [28.1]	483 [19]	163 [359]	3AUA0000016381 Sheet 1
BX1-8	Free Standing		Ø16 [Ø0.63]	2125 [83.7]	806 [31.7]	659 [25.9]	474 [1045]	3AUA0000016384 Sheet 1

Drawing is not for engineering purposes.

Dimensions: ACH550-BxR UL Type 12 / NEMA 12 R1 through R8 Frame Size



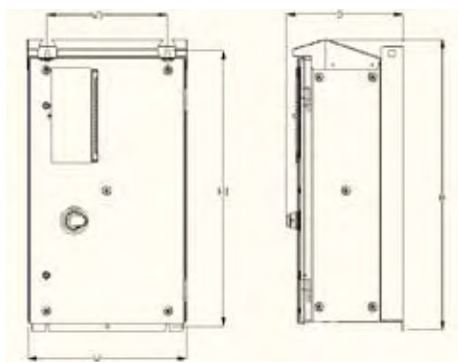
Wall Mount (BX12-1 - BX12-6)

Floor Mount (BX12-8)

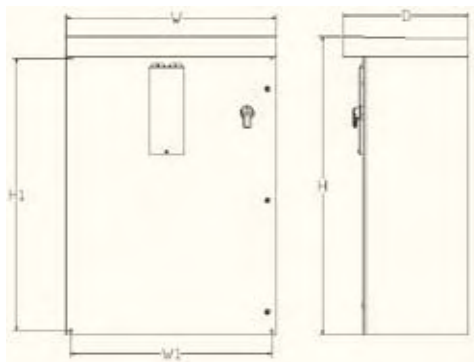
Dimension Reference	UL Type 12 / NEMA 12 Mounting Dimensions mm [inches]			UL Type 12 / NEMA 12 Dimensions and Weights mm [inches] kg [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
BX12-1	810 [31.9]	320 [12.6]	M10 [0.375]	842 [33.2]	443 [17.4]	343 [13.5]	35.4 [78]	3AUA0000016376 Sheet 1
BX12-2	810 [31.9]	320 [12.6]	M10 [0.375]	842 [33.2]	443 [17.4]	343 [13.5]	38.1 [84]	3AUA0000016376 Sheet 1
BX12-3	918 [36.1]	400 [15.7]	M10 [0.375]	950 [37.4]	521 [20.5]	389 [15.3]	54.4 [120]	3AUA0000016379 Sheet 1
BX12-4	918 [36.1]	400 [15.7]	M10 [0.375]	950 [37.4]	521 [20.5]	389 [15.3]	62.6 [138]	3AUA0000016379 Sheet 1
BX12-5	1175 [46.3]	600 [23.6]	M10 [0.375]	1380 [54.3]	713 [28.1]	483 [19]	121 [267]	3AUA0000016382 Sheet 1
BX12-6	1175 [46.3]	600 [23.6]	M10 [0.375]	1380 [54.3]	713 [28.1]	483 [19]	163 [359]	3AUA0000016382 Sheet 1
BX12-8	Free Standing		Ø16 [Ø0.63]	2377 [93.6]	806 [31.7]	659 [25.9]	474 [1045]	3AUA0000016385 Sheet 1

Drawing is not for engineering purposes.

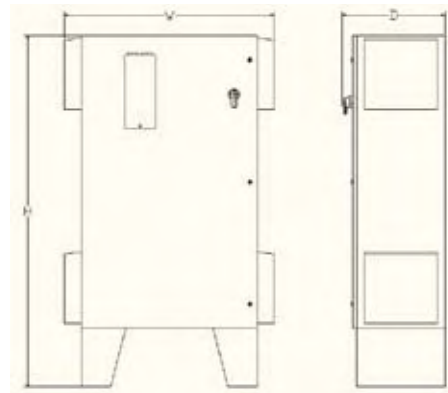
Dimensions: ACH550-BxR UL Type 3R/ NEMA 3R R1 through R8 Frame Size



Wall Mount (BX3R-1 - BX3R-4)



Wall Mount (BX3R-5 - BX3R-6)

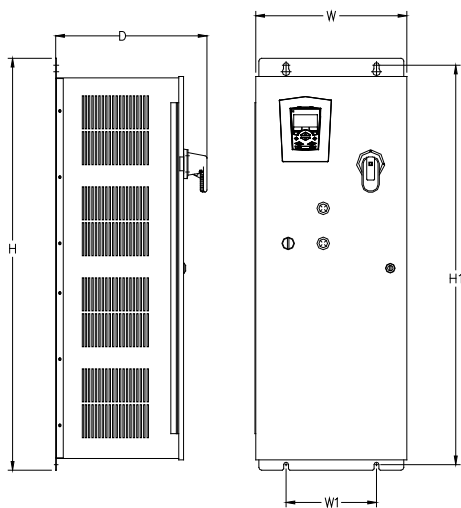


Floor Mount (BX3R-7)

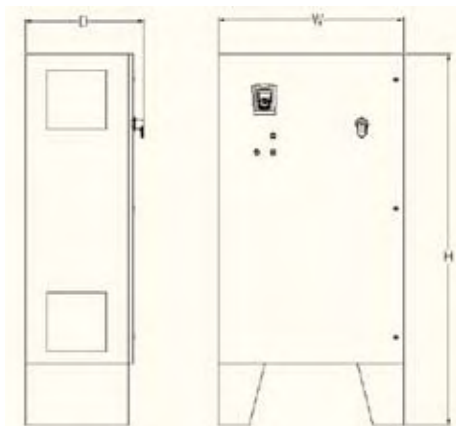
Dimension Reference	UL Type 3R / NEMA 3R Mounting Dimensions mm [inches]			UL Type 3R / NEMA 3R Dimensions and Weights mm kg [inches] [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
BX3R-1	810 [31.9]	320 [12.6]	M10 [0.375]	865 [34]	452 [17.8]	343 [13.5]	58 [128]	3AUA0000016377 Sheet 1
BX3R-2	810 [31.9]	320 [12.6]	M10 [0.375]	865 [34]	452 [17.8]	343 [13.5]	61 [134]	3AUA0000016377 Sheet 1
BX3R-3	918 [36.1]	400 [15.7]	M10 [0.375]	968 [38.1]	530 [20.9]	389 [15.3]	80 [176]	3AUA0000016380 Sheet 1
BX3R-4	918 [36.1]	400 [15.7]	M10 [0.375]	968 [38.1]	530 [20.9]	389 [15.3]	88 [194]	3AUA0000016380 Sheet 1
BX3R-5	876 [34.5]	724 [28.5]	M10 [0.375]	991 [39]	762 [30]	394 [15.5]	96.8 [213]	3AUA0000060123 Sheet 2
BX3R-6	1181 [46.5]	876 [34.5]	M10 [0.375]	1295 [51]	914 [36]	546 [21.5]	185.5 [409]	3AUA0000060124 Sheet 2
BX3R-7	Free Standing		Ø14.2 [Ø0.56]	1829 [72]	1092 [43]	533 [21]	251.4 [554]	3AUA00000603R5 Sheet 2

Drawing is not for engineering purposes.

Dimensions: ACH550-Cx UL Type 1 / NEMA 1 R1 through R8 Frame Size



Wall Mount (CX1-1 - CX1-8)



Wall Mount (CX1-9 - CX1-11)



Floor Mount (CX1-12- CX1-13)

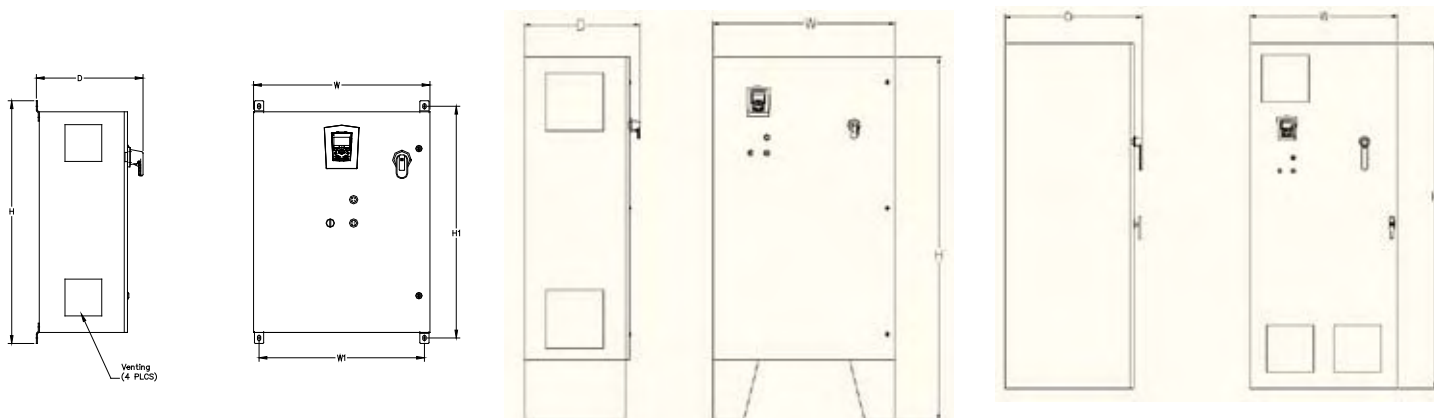
Dimension Reference	UL Type 1 / NEMA 1 Mounting Dimensions mm [inches]			UL Type 1 / NEMA 1 Dimensions and Weights mm [inches] kg [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
CX1-1	920 [36.2]	208 [8.2]	M10 [0.375]	948 [37.3]	348 [13.7]	349 [13.7]	35 [77]	3AUA0000012797 Sheet 3
CX1-2	920 [36.2]	208 [8.2]	M10 [0.375]	948 [37.3]	348 [13.7]	349 [13.7]	37 [82]	3AUA0000012797 Sheet 3
CX1-3	1352 [53.2]	254 [10]	M10 [0.375]	1380 [54.3]	414 [16.3]	371 [14.6]	49 [108]	3AUA0000012798 Sheet 3
CX1-4	1352 [53.2]	254 [10]	M10 [0.375]	1380 [54.3]	414 [16.3]	371 [14.6]	61 [134]	3AUA0000012798 Sheet 3
CX1-5	1352 [53.2]	254 [10]	M10 [0.375]	1380 [54.3]	414 [16.3]	371 [14.6]	76 [168]	3AUA0000012798 Sheet 3
CX1-6	1568 [61.7]	330 [13]	M10 [0.375]	1596 [62.8]	491 [19.3]	489 [19.2]	90 [198]	3AUA0000012799 Sheet 3
CX1-7	1568 [61.7]	330 [13]	M10 [0.375]	1596 [62.8]	491 [19.3]	489 [19.2]	119 [262]	3AUA0000012799 Sheet 3
CX1-8	1568 [61.7]	330 [13]	M10 [0.375]	1596 [62.8]	491 [19.3]	489 [19.2]	154 [340]	3AUA0000012799 Sheet 3
CX1-9	Free Standing		Ø14.2 [Ø0.56]	1883 [74.1]	889 [35]	527 [20.7]	126 [278]	3AUA0000012800 Sheet 3
CX1-10	Free Standing		Ø14.2 [Ø0.56]	1883 [74.1]	889 [35]	527 [20.7]	190 [419]	3AUA0000012800 Sheet 3
CX1-11	Free Standing		Ø14.2 [Ø0.56]	1829 [72]	914 [36]	584 [23]	247 [545]	3AUA0000024944 Sheet 3
CX1-12	Free Standing		N/A [N/A]	2134 [84]	914 [36]	848 [33.4]	579 [1276]	3AUA0000013236 Sheet 3
CX1-13	Free Standing		N/A [N/A]	2134 [84]	1524 [60]	848 [33.4]	662 [1459]	3AUA0000013223 Sheet 3

Drawing is not for engineering purposes.

CX1-9 and CX1-11 are wall mount configurations with 12 inch high mounting feet. Feet are removable.

CX1-13 enclosure is double door construction.

Dimensions: ACH550-Cx UL Type 12 / NEMA 12 R1 through R8 Frame



Wall Mount (CX12-1 - CX12-9)

Wall Mount (CX12-10)

Floor Mount (CX12-11 - CX12-12)

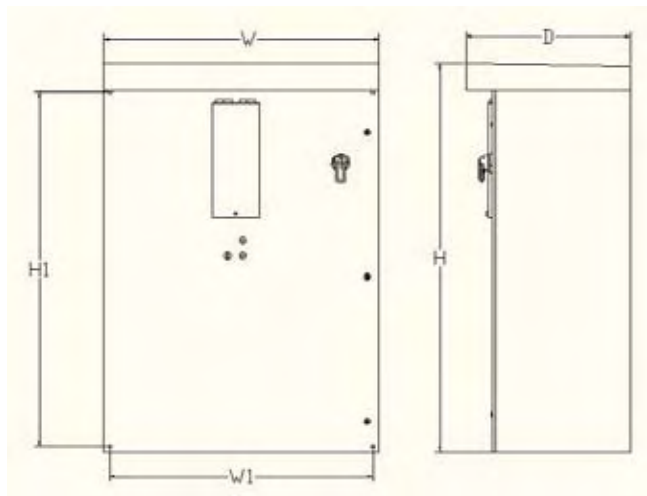
Dimension Reference	UL Type 12 / NEMA 12 Mounting Dimensions mm [inches]			UL Type 12 / NEMA 12 Dimensions and Weights mm [inches] kg [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
CX12-1	648 [25.5]	419 [16.5]	M10 [0.375]	686 [27]	457 [18]	369 [14.5]	36 [79]	3AUA0000012801 Sheet 3
CX12-2	648 [25.5]	419 [16.5]	M10 [0.375]	686 [27]	457 [18]	369 [14.5]	38 [84]	3AUA0000012801 Sheet 3
CX12-3	800 [31.5]	572 [22.5]	M10 [0.375]	838 [33]	610 [24]	369 [14.5]	51 [112]	3AUA0000012802 Sheet 3
CX12-4	800 [31.5]	572 [22.5]	M10 [0.375]	838 [33]	610 [24]	369 [14.5]	64 [141]	3AUA0000012802 Sheet 3
CX12-5	953 [37.5]	724 [28.5]	M10 [0.375]	991 [39]	762 [30]	369 [14.5]	78 [172]	3AUA0000012803 Sheet 3
CX12-6	953 [37.5]	724 [28.5]	M10 [0.375]	991 [39]	762 [30]	369 [14.5]	93 [205]	3AUA0000012803 Sheet 3
CX12-7	1257 [49.5]	876 [34.5]	M10 [0.375]	1304 [51.4]	914 [36]	572 [22.5]	118 [260]	3AUA0000012804 Sheet 3
CX12-8	1257 [49.5]	876 [34.5]	M10 [0.375]	1304 [51.4]	914 [36]	572 [22.5]	147 [324]	3AUA0000012804 Sheet 3
CX12-9	1257 [49.5]	876 [34.5]	M10 [0.375]	1304 [51.4]	914 [36]	572 [22.5]	182 [401]	3AUA0000012804 Sheet 3
CX12-10	Free Standing		Ø14.2 [Ø0.56]	1829 [72]	914 [36]	584 [23]	247 [545]	3AUA0000012805 Sheet 3
CX12-11	Free Standing		N/A [N/A]	2134 [84]	914 [36]	848 [33.4]	579 [1276]	3AUA0000013237 Sheet 3
CX12-12	Free Standing		N/A [N/A]	2134 [84]	1524 [60]	848 [33.4]	662 [1459]	3AUA0000013224 Sheet 3

Drawing is not for engineering purposes.

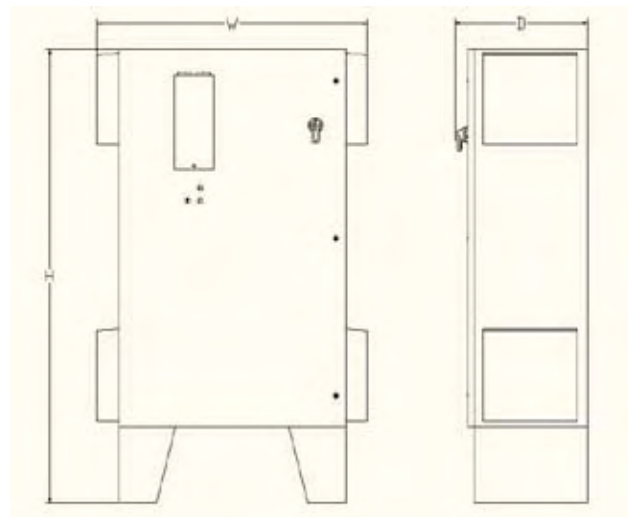
CX12-10 is a wall mount configurations with 12 inch high mounting feet. Feet are removable.

CX12-12 enclosure is double door construction.

Dimensions: ACH550-Cx UL Type 3R / NEMA 3R R1 through R6 Frame Size



Wall Mount (CX3R-1-CX3R-6)

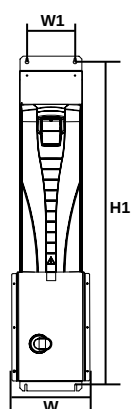


Floor Mount (CX3R-7)

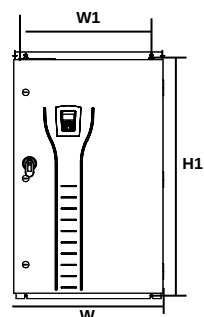
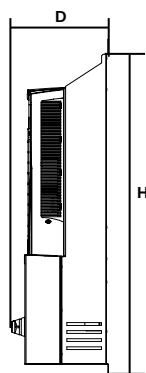
Dimension Reference	UL Type 3R / NEMA 3R Mounting Dimensions mm [inches]			UL Type 3R / NEMA 3R Dimensions and Weights mm [inches] kg [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
CX3R-1	571.5 22.5	419.1 16.5	M10 0.375	685.8 27	457.2 18	342.9 13.5	37.4 82	3AUA0000060121 Sheet 3
CX3R-2	571.5 22.5	419.1 16.5	M10 0.375	685.8 27	457.2 18	342.9 13.5	39.9 88	3AUA0000060121 Sheet 3
CX3R-3	723.9 28.5	571.5 22.5	M10 0.375	838.2 33	609.6 24	342.9 13.5	65.9 145	3AUA0000060122 Sheet 3
CX3R-4	876.3 34.5	723.9 28.5	M10 0.375	990.6 39	762 30	393.7 15.5	96.8 213	3AUA0000060123 Sheet 3
CX3R-5	1181.1 46.5	876.3 34.5	M10 0.375	1295.4 51	914.4 36	546.1 21.5	121.4 268	3AUA0000060124 Sheet 3
CX3R-6	1181.1 46.5	876.3 34.5	M10 0.375	1295.4 51	914.4 36	546.1 21.5	150.5 332	3AUA0000060124 Sheet 3
CX3R-7	1181.1 46.5	876.3 34.5	M10 0.375	1295.4 51	914.4 36	546.1 21.5	185.5 409	3AUA0000060124 Sheet 3
CX3R-8	Free Standing		M10 0.375	1828.8 72	1092.2 43	524.6 20.7	251.4 554	3AUA0000060125 Sheet 3

Drawing is not for engineering purposes.

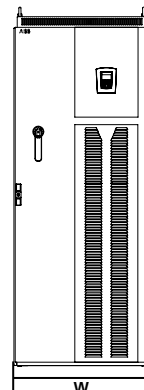
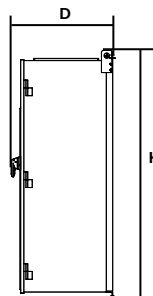
Dimensions: ACH550-PxR UL Type 1 / NEMA 1 R1 through R8 Frame Size



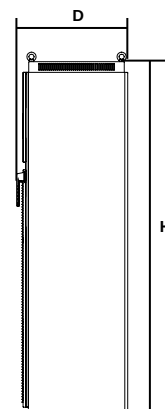
Wall Mount (PX1-1 - PX1-4)



Wall Mount (PX1-5 - PX1-6)



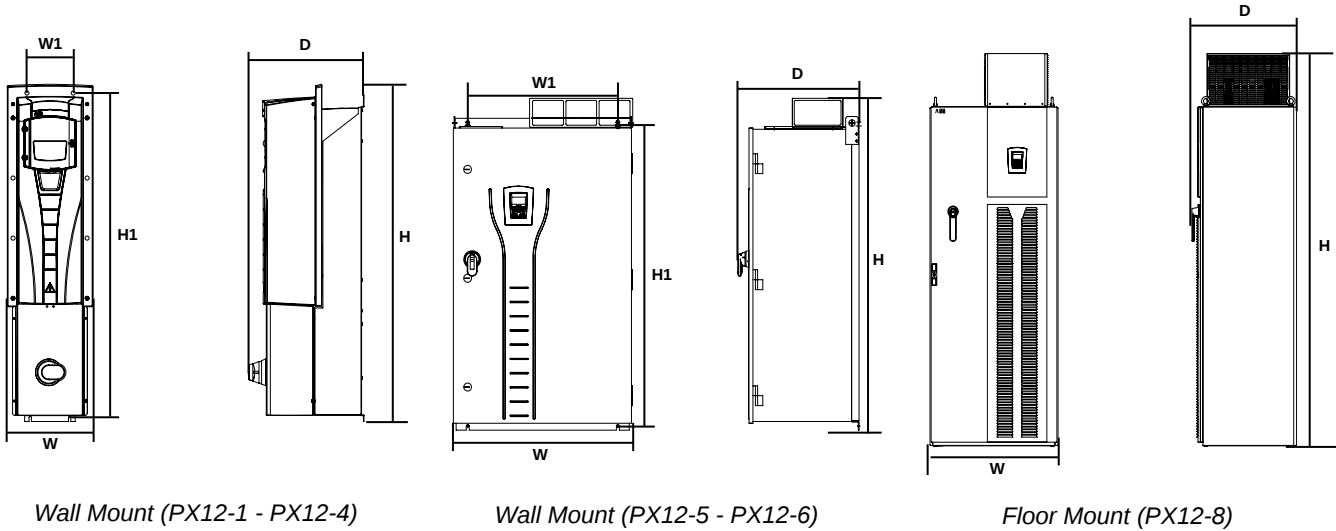
Floor Mount (PX1-8)



Dimension Reference	UL Type 1/ NEMA 1 Mounting Dimensions mm [inches]			UL Type 1 / NEMA 1 Dimensions and Weights mm [inches] kg [lbs]				Dimension Drawing
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	
PX1-1	712 [28]	98 [3.9]	M6 [0.25]	729 [28.7]	198 [7.8]	283 [11.2]	15 [33]	3AUA0000008216 Sheet 1
PX1-2	812 [32]	98 [3.9]	M6 [0.25]	829 [32.6]	198 [7.8]	295 [11.6]	19 [42]	3AUA0000008218 Sheet 1
PX1-3	983 [38.7]	160 [6.3]	M6 [0.25]	1013 [39.9]	260 [10.2]	304 [11.9]	34 [75]	3AUA0000008220 Sheet 1
PX1-4	1117 [44]	160 [6.3]	M6 [0.25]	1147 [45.2]	260 [10.2]	332 [13.1]	43 [95]	3AUA0000008221 Sheet 1
PX1-5	1175 [46.3]	600 [23.6]	M10 [0.375]	1212 [47.7]	713 [28.1]	483 [19]	121 [267]	3AUA0000021148 Sheet 1
PX1-6	1175 [46.3]	600 [23.6]	M10 [0.375]	1212 [47.7]	713 [28.1]	483 [19]	163 [359]	3AUA0000021148 Sheet 1
PX1-8	Free Standing		Ø16 [Ø0.63]	2125 [83.7]	806 [31.7]	659 [25.9]	360 [794]	3AUA0000021152 Sheet 1

Drawing is not for engineering purposes.

Dimensions: ACH550-PxR UL Type 12 / NEMA 12 R1 through R8 Frame Size



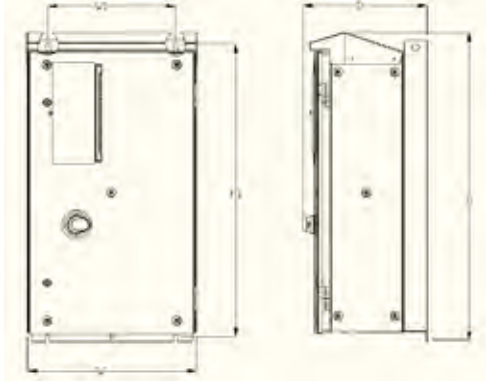
Dimension Reference	UL Type 12/ NEMA 12 Mounting Dimensions mm [inches]			UL Type 12 / NEMA 12 Dimensions and Weights mm [inches] kg [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
PX12-1	712 [28]	98 [3.9]	M6 [0.25]	744 [29.3]	221 [8.7]	283 [11.2]	17 [37]	3AUA0000008216 Sheet 2
PX12-2	812 [32]	98 [3.9]	M6 [0.25]	844 [33.2]	221 [8.7]	295 [11.6]	21 [46]	3AUA0000008218 Sheet 2
PX12-3	983 [38.7]	160 [6.3]	M6 [0.25]	1030 [40.6]	267 [10.5]	304 [11.9]	36 [79]	3AUA0000008220 Sheet 2
PX12-4	1117 [44]	160 [6.3]	M6 [0.25]	1163 [45.8]	267 [10.5]	332 [13.1]	45 [99]	3AUA0000008221 Sheet 2
PX12-5	1175 [46.3]	600 [23.6]	M10 [0.375]	1380 [54.3]	713 [28.1]	483 [19]	121 [267]	3AUA0000021149 Sheet 1
PX12-6	1175 [46.3]	600 [23.6]	M10 [0.375]	1380 [54.3]	713 [28.1]	483 [19]	163 [359]	3AUA0000021149 Sheet 1
PX12-8	Free Standing		Ø16 [Ø0.63]	2377 [93.6]	806 [31.7]	659 [25.9]	380 [838]	3AUA0000021153 Sheet 1

Drawing is not for engineering purposes.

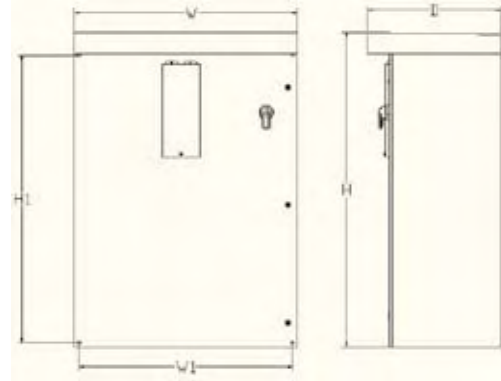


AC DRIVES ACH550

Dimensions: ACH550-PxR UL Type 3R / NEMA 3R R1 through R6 Frame Size



Wall Mount (PX3R-1 - PX3R-4)



Wall Mount (PX3R-5 - PX3R-6)

Dimension Reference	UL Type 3R / NEMA 3R Mounting Dimensions mm [inches]			UL Type 3R / NEMA 3R Dimensions and Weights mm [inches] kg [lbs]				
	H1	W1	Mounting Hardware	Height (H)	Width (W)	Depth (D)	Weight	Dimension Drawing
PX3R-1	810 [31.9]	320 [12.6]	M10 [0.375]	865 [34]	452 [17.8]	343 [13.5]	58 [128]	3AUA0000016377 Sheet 1
PX3R-2	810 [31.9]	320 [12.6]	M10 [0.375]	865 [34]	452 [17.8]	343 [13.5]	61 [134]	3AUA0000016377 Sheet 1
PX3R-3	918 [36.1]	400 [15.7]	M10 [0.375]	968 [38.1]	530 [20.9]	389 [15.3]	80 [176]	3AUA0000016380 Sheet 1
PX3R-4	918 [36.1]	400 [15.7]	M10 [0.375]	968 [38.1]	530 [20.9]	389 [15.3]	88 [194]	3AUA0000016380 Sheet 1
PX3R-5	876 [34.5]	724 [28.5]	M10 [0.375]	991 [39]	762 [30]	394 [15.5]	92.3 [203]	3AUA0000060123 Sheet 2
PX3R-6	1181 [46.5]	876 [34.5]	M10 [0.375]	1295 [51]	914 [36]	546 [21.5]	179.1 [395]	3AUA0000060124 Sheet 2

Drawing is not for engineering purposes.

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