

COMPARISON GUIDE

ABB drives for HVAC

ACH550 to ACH580 comparison guide



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Using the comparison guide

Important notice

This guide is intended for limited distribution to ABB's channel partners and customers who are replacing the ACH550 drive with the ACH580 HVAC drive. ABB has prepared this document to aid sales associates, authorized channel partners and customers in the drive replacement. Every attempt has been made to ensure the accuracy of the information.

All installation and electrical work should be carried out by a trained professional. ABB takes no responsibility for any damages or other liability whatsoever (including any consequential damages, even if ABB or an ABB representative had advised of the possibility of such damages) resulting from the use or selection of this document for any information, apparatus, method, process, or similar item disclosed in this guide. Specification is subject to change without notice.

Before beginning, some basic checklist items

All information regarding the control of your application should be gathered from the ACH550 prior to selecting and performing the actual replacement, control and parameter settings should be noted to ensure consistency in the replacement ACH580.

This checklist covers the main information you may require to guide you through the replacement process. If the ACH550 cannot be powered, the technician should gather all the information below that is not parameter related.

ACH550 upgrade basics

- Record nominal power, current, voltage, etc. ratings taken from your motor nameplate (to use in the ratings comparison tables)
- What type of signal is the speed/frequency command? e.g. 0-10VDC, 4-20 mA, via communications, or other?
- Where is the speed/frequency command landed on the drive?
- What type of signal is the start/stop command? e.g. a relay closure, via communications, or other?
- Where is the start/stop command terminated on the drive?
- Are there any other control or reference sources that require additional IO options?
- Are you using a door mounted control panel on an enclosure door? If so, consider appropriate kit/method for replacement keypad.
- Are you using a door mounted control panel? Consider this when choosing options
- Consider the dimensions and mounting requirements, cable sizes and heat losses
- Review the control terminal wiring and ensure the cable lengths are sufficient
- Is the Building Automation System communicating with the drive over a communication protocol? e.g. BACnet. If so, document the appropriate communication settings, such as MAC ID, Device Object Instance ID, Baud, etc.
- Are there any analog outputs from the drive that are wired to another device? If so, document the type of signal (e.g. 4-20 mA), where it was terminated on the drive, what it was used for, and any scaling of the signal.
- Are there any relay outputs from the drive that are wired to another device? If so, document where it was landed on the drive and what it was used for.
- Are there any other control or reference sources that require additional IO options?

This guide will help you to replace the ACH550 drive with the ACH580 HVAC drive. Follow the steps outlined in this guide to find the optimal replacement product and to expedite the replacement process.

Step 1: Sizing of the drive and selecting options

Compare power range, mounting methods and dimensions to select the appropriate ACH580 product compared to the ACH550 drive, see the checklist items for some useful guidance.

Step 2: Wiring and parameter setup

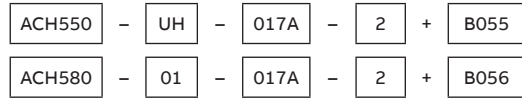
Compare electrical data and basic parameter range for optimal replacement. Use the replacement ACH580 manual to assist with the commissioning process.

Selecting and sizing the drive

Type designation 200V-240V

1. Start with identifying type designation of your ACH550 drive.
2. Compare the motor's power and current rating from the ratings table below.
3. Compare the options on the options page.

Example:



$U_1 = 208V$ to 240V 3-phase

Power ratings are valid at nominal output voltage 208V 50/60Hz

Power (HP)	Material Description	Current (A)	Base Drive Frame
1	ACH550-UH-04A6-2	4.6	R1
1.5	ACH550-UH-06A6-2	6.6	
2	ACH550-UH-07A5-2	7.5	
3	ACH550-UH-012A-2	11.8	
5	ACH550-UH-017A-2	16.7	
7.5	ACH550-UH-024A-2	24.2	R2
10	ACH550-UH-031A-2	30.8	
15	ACH550-UH-046A-2	46.2	R3
20	ACH550-UH-059A-2	59.4	
25	ACH550-UH-075A-2	74.8	R4
30	ACH550-UH-088A-2	88	
40	ACH550-UH-114A-2	114	
50	ACH550-UH-143A-2	143	R6
60	ACH550-UH-178A-2	178	
75	ACH550-UH-221A-2	221	
100	ACH550-UH-248A-2	248	

$U_1 = 208V$ 1-phase

Power ratings are valid at nominal output voltage 208V 50/60Hz

Power (HP)	Material Description	Current (A)	Base Drive Frame
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$U_1 = 200V$ to 240V 3-phase

Power ratings are valid at $U_N = 208V/230V$ 50/60Hz

Base Drive Frame	Power (HP)	Material Description	Current (A)
R1	1	ACH580-01-04A6-2	4.6
	1.5	ACH580-01-06A6-2	6.6
	2	ACH580-01-07A5-2	7.5
	3	ACH580-01-10A6-2	10.6
	5	ACH580-01-017A-2	16.7
R2	7.5	ACH580-01-024A-2	24.2
	10	ACH580-01-031A-2	30.8
R3	15	ACH580-01-046A-2	46.2
	20	ACH580-01-059A-2	59.4
R4	25	ACH580-01-075A-2	74.8
R5	30	ACH580-01-088A-2	88
	40	ACH580-01-114A-2	114
R6	50	ACH580-01-143A-2	143
R7	60	ACH580-01-169A-2	169
	75	ACH580-01-211A-2	211
R8	100	ACH580-01-273A-2	273

$U_1 = 240V$ 1-phase

Power ratings are valid at $U_N = 230V$ 50/60Hz

Base Drive Frame	Power (HP)	Material Description	Current (A)
R1	0.5	ACH580-01-04A6-2	2.2
	0.75	ACH580-01-06A6-2	3.2
	1	ACH580-01-07A5-2	4.2
	1.5	ACH580-01-10A6-2	6.0
	2	ACH580-01-017A-2	6.8
R2	3	ACH580-01-024A-2	9.6
	5	ACH580-01-031A-2	15.2
R3	7.5	ACH580-01-046A-2	22
	10	ACH580-01-059A-2	28
R4	10	ACH580-01-075A-2	28
R5	15	ACH580-01-088A-2	42
	20	ACH580-01-114A-2	54
R6	25	ACH580-01-143A-2	68
R7	30	ACH580-01-169A-2	80
	40	ACH580-01-211A-2	104
R8	50	ACH580-01-273A-2	130

The ACH550 -xx-xxxx-2 (208...240V series) can be used with a single phase supply, if output current is derated by 50%

*floor standing so not direct comparison to ACH580 wall mounted drives

Notes:

Ratings apply at an ambient temperature of 40°C (104°F) unless otherwise noted.

To achieve the rated motor power given in the table, the rated current of the drive must be higher than or equal to the rated motor current.

Definitions:

A Drive current, continuous RMS output current allowing 110% overload for 1 minute every 10 minutes.

HP Drive or package power, typical motor power

U_N Nominal output voltage of the drive

U_1 Input voltage range

Selecting and sizing the drive

Type designation 380V-480V

1. Start with identifying type designation of your ACH550 drive.
2. Compare the motor's power and current rating from the ratings table below.
3. Compare the options on the options page.

Example:

ACH550	-	UH	-	012A	-	4	+	B055
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ACH580	-	01	-	012A	-	4	+	B056
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U_i = 380V to 480V 3-phase			
Power ratings are valid at nominal output voltage 460V 50/60Hz			
Power (HP)	Material Description	Current (A)	Base Drive Frame
			R1
1-1.5	ACH550-UH-03A3-4	3.3	
2	ACH550-UH-04A1-4	4.1	
3	ACH550-UH-06A9-4	6.9	
5	ACH550-UH-08A8-4	8.8	
7.5	ACH550-UH-012A-4	11.9	
10	ACH550-UH-015A-4	15.4	R2
15	ACH550-UH-023A-4	23	
20	ACH550-UH-031A-4	31	R3
25	ACH550-UH-038A-4	38	
30	ACH550-UH-045A-4	44	
40	ACH550-UH-059A-4	59	R4
50	ACH550-UH-072A-4	72	
60	ACH550-UH-078A-4	77	
75	ACH550-UH-097A-4	96	
100	ACH550-UH-125A-4	124	R5
125	ACH550-UH-157A-4	157	R6
150	ACH550-UH-180A-4	180	
200	ACH550-UH-246A-4	245	
250	ACH550-UH-316A-4*	316	R8
300	ACH550-UH-368A-4*	368	
350	ACH550-UH-414A-4*	414	
400	ACH550-UH-486A-4*	486	
450	ACH550-UH-526A-4*	526	
500	ACH550-UH-602A-4*	602	
550	ACH550-UH-645A-4*	645	

See notes and definitions on page 4

U_i = 380V to 480V 3-phase			
Power ratings are valid at U _N = 460V 50/60Hz			
Base Drive Frame	Power (HP)	Material Description	Current (A)
R1	1	ACH580-01-02A1-4	2.1
	1.5	ACH580-01-03A0-4	3.0
	2	ACH580-01-03A5-4	3.5
	3	ACH580-01-04A8-4	4.8
	5	ACH580-01-07A6-4	7.6
	7.5	ACH580-01-012A-4	12
R2	10	ACH580-01-014A-4	14
	15	ACH580-01-023A-4	23
R3	20	ACH580-01-027A-4	27
	25	ACH580-01-034A-4	34
	30	ACH580-01-044A-4	44
R4	40	ACH580-01-052A-4	52
	50	ACH580-01-065A-4	65
	60	ACH580-01-077A-4	77
R5	75	ACH580-01-096A-4	96
R6	100	ACH580-01-124A-4	124
R7	125	ACH580-01-156A-4	156
	150	ACH580-01-180A-4	180
R8	200	ACH580-01-240A-4	240
R9	250	ACH580-01-302A-4	302
	300	ACH580-01-361A-4	361
	350	ACH580-01-414A-4	414
		Consult factory	

Selecting and sizing the drive

Type designation 500V-600V

1. Start with identifying type designation of your ACH550 drive.
2. Compare the motor's power and current rating from the ratings table below.
3. Compare the options on the options page.

Example:

ACH550 - UH - 011A - 6 + B055

ACH580 - 01 - 011A - 6 + B056

$U_1 = 500V$ to 600V 3-phase

Power ratings are valid at nominal output voltage 575V 50/60Hz

Power (HP)	Material Description	Current (A)	Base Drive Frame
2	ACH550-UH-02A7-6	2.7	R2
3	ACH550-UH-03A9-6	3.9	
5	ACH550-UH-06A1-6	6.1	
7.5	ACH550-UH-09A0-6	9.0	
10	ACH550-UH-011A-6	11	
15	ACH550-UH-017A-6	17	
20	ACH550-UH-022A-6	22	R3
25	ACH550-UH-027A-6	27	
30	ACH550-UH-032A-6	32	R4
40	ACH550-UH-041A-6	41	
50	ACH550-UH-052A-6	52	
60	ACH550-UH-062A-6	62	
75	ACH550-UH-077A-6	77	R6
100	ACH550-UH-099A-6	99	
125	ACH550-UH-125A-6	125	
150	ACH550-UH-144A-6	144	

$U_1 = 500V$ to 600V 3-phase

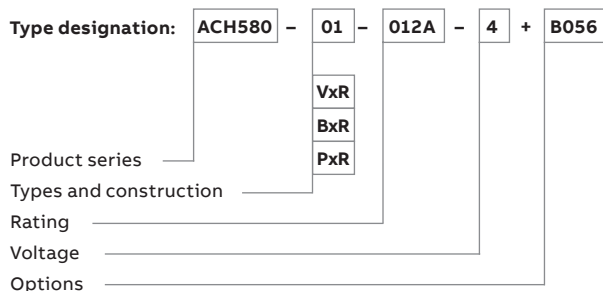
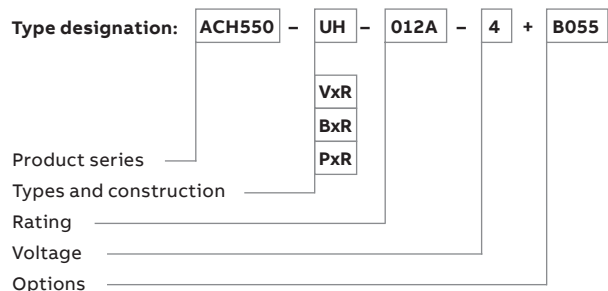
Power ratings are valid at $U_N = 575V$ 50/60Hz

Base Drive Frame	Power (HP)	Material Description	Current (A)
R2	2	ACH580-01-02A7-6	2.7
	3	ACH580-01-03A9-6	3.9
	5	ACH580-01-06A1-6	6.1
	7.5	ACH580-01-09A0-6	9.0
	10	ACH580-01-011A-6	11
	15	ACH580-01-017A-6	17
R3	20	ACH580-01-022A-6	22
	25	ACH580-01-027A-6	27
	30	ACH580-01-032A-6	32
R5	40	ACH580-01-041A-6	41
	50	ACH580-01-052A-6	52
	60	ACH580-01-062A-6	62
	75	ACH580-01-077A-6	77
R7	100	ACH580-01-099A-6	99
	125	ACH580-01-125A-6	125
R8	150	ACH580-01-144A-6	144
R9	200	ACH580-01-192A-6	192
	250	ACH580-01-242A-6	242
	250	ACH580-01-271A-6	271

See notes and definitions on page 4

Drive Options

Identify your drive and options:



ACH550-UH		
Option name	Description	Available options and code
Degree of protection		
	UL (NEMA) Type 12 (IP54)	B055
Control panel		
ACH-CP-B	HVAC Advanced Control Panel	o
ACS/H-CP-EXT	Panel Mounting Kit	x
ACS/H-CP-EXT-IP66	Panel Mounting Kit IP66	x
-	-	-
I/O options		
OREL-01	Relay Output Extension	+L511
OHDI-01	115/230V Digital Input 6xDI	+L512
Fieldbus		
RBIP-01	BACnet/IP Router	-
RCNA-01	ControlNet™	+K462
RDNA-01	DeviceNet™	+K451
RLON-01	LonWorks®	+K452
RETA-01	EtherNet/IP™	+K466
FENA-01 *	EtherNet/IP™	+K466
RPBA-01	PROFIBUS DP	+K454
Tools		
Drivewindow Light	DriveWindow Light and USB serial adapters	x

o = standard with drive
 x = ordering with separate material code

ACH580-01		
Replacement	Description	Option name
Degree of protection		
B056	UL (NEMA) Type 12 (IP55)	
Control panel		
o	Hand/Off/Auto Panel	ACH-AP-H
-	Door Mounting Kit contains both DPMP-06 and CDPI-01	DPMP-06-EXT-H
-	-	-
+J429	Bluetooth Control Panel	ACH-AP-W
I/O options		
+L501	External 24V AC/DC 2xRO and 1xDO	CMOD-01 ³
+L512	115/230V Digital Input 6xDI and 2xDO	CHDI-01 ³
Fieldbus		
+K465	BACnet/IP (2-port) adapter	FBIP-21-KIT ²
x	ControlNet™	FCNA-01-KIT**
+K451	DeviceNet™	FDNA-01-KIT
+K452	LonWorks®	FLON-01-KIT ^{1,2}
+K475	EtherNet/IP™ / Two Port	FENA-21-KIT
-	-	-
+K454	PROFIBUS DP	FBPA-01 ²
Tools		
x	Cold Configurator Adapter	CCA-01
	Drive Composer Entry	Download from www.abb.com/drives
x	Drive Composer Pro	DCPT-01-KIT

USB programming through Hand/Off/Auto control panel

* for use with -VxR and -BxR configurations

** Not compatible with VxR & BxR

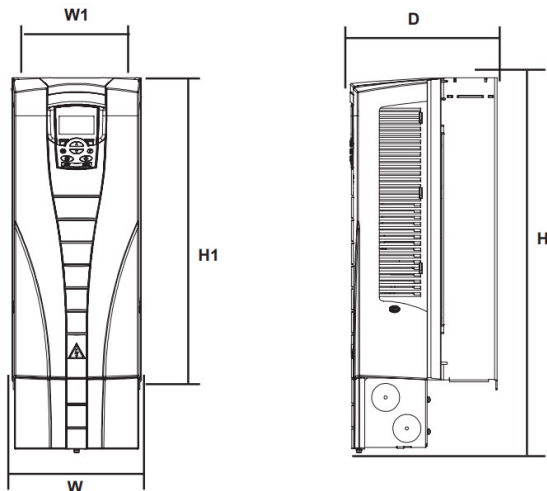
¹ Coming 2019

² Coming 2019 for VxR & BxR

³ +L Options not valid configurations on VxR/BxR

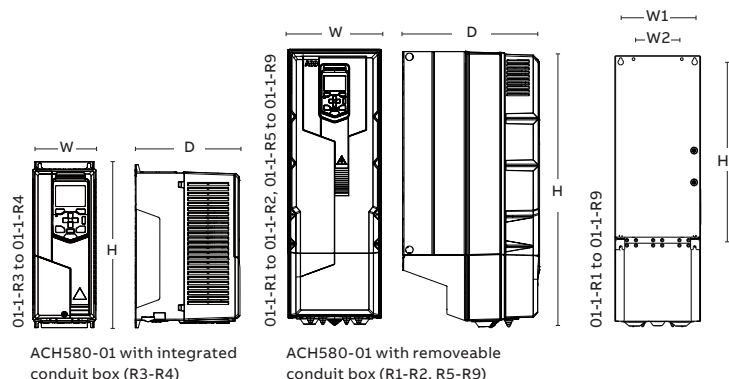
Dimensions and comparison tables

ACH550-UH UL (NEMA) Type 1 Wall-mounted drives up to 200 hp



H = Height including conduit box
H1 = Height to mounting centers
W = Width
W1 = Width to mounting centers

ACH580-01 UL (NEMA) Type 1 Wall-mounted drives up to 350 hp



ACH580-01 with integrated
conduit box (R3-R4)

ACH580-01 with removable
conduit box (R1-R2, R5-R9)

ACH550-UH wall-mounted UL (NEMA) Type 1 (All Voltages)

Dim Ref	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	lb
UH1-1	14.5	4.9	8.3	14.3
UH1-2	18.5	4.9	8.7	19.8
UH1-3	23.0	8.0	9.1	35.0
UH1-4	27.1	8.0	10.3	53.0
UH1-5	29.0	10.4	11.3	75.0
UH1-6	34.6	11.8	15.8	152.0

ACH580-01, wall-mounted UL (NEMA) Type 1 (All Voltages)

Dim Ref	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	lb
01-1-R1	14.69	4.92	8.78	10.1
01-1-R2	18.62	4.92	9.00	14.6
01-1-R3	19.29	7.99	9.02	26.0
01-1-R4	25.04	7.99	10.12	41.9
01-1-R5	28.82	7.99	11.61	62.4
01-1-R6	28.62	9.92	14.53	93.5
01-1-R7	34.65	11.18	14.57	119.1
01-1-R8	37.99	11.81	15.47	152.2
01-1-R9	37.60	14.96	16.46	213.9

ACH550-UH mounting dimensions UL (NEMA) Type 1 (All Voltages)

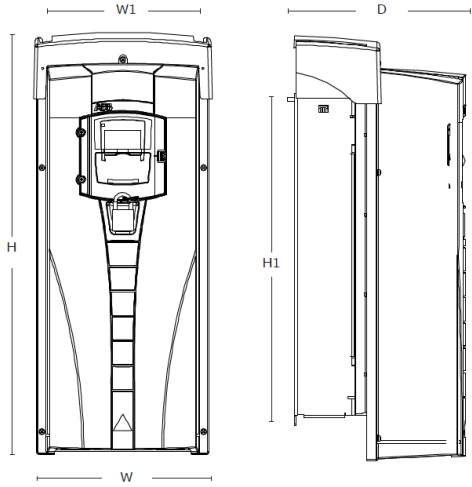
Dim Ref	Height (H1)	Width (W1)
	in	in
UH1-1	12.5	3.9
UH1-2	16.4	3.9
UH1-3	18.6	6.3
UH1-4	22.8	6.3
UH1-5	23.2	9.4
UH1-6	26.6	10.4

ACH580-01 mounting dimensions UL (NEMA) Type 1 (All Voltages)

Dim Ref	Height (H1)	Width (W1)	Width (W2)
	in	in	in
01-1-R1/01-12-R1	12.48	3.86	3.86
01-1-R2/01-12-R2	16.42	3.86	3.86
01-1-R3/01-12-R3	18.62	6.30	6.30
01-1-R4/01-12-R4	24.37	6.30	3.86
01-1-R5/01-12-R5	22.87	6.30	3.86
01-1-R6/01-12-R6	20.91	8.37	6.30
01-1-R7/01-12-R7	22.95	9.65	6.30
01-1-R8/01-12-R8	25.91	10.33	8.43
01-1-R9/01-12-R9	25.91	13.58	7.87

Dimensions and comparison tables

ACH550-UH UL (NEMA) Type 12 (option +B055) Wall-mounted drives up to 200 hp

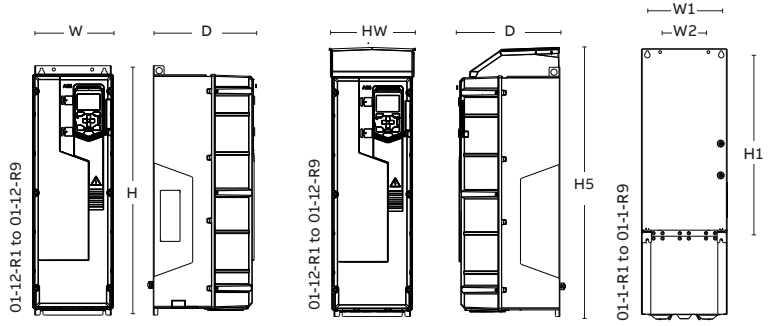


H = Height including conduit box
 H1 = Height to mounting centers
 W = Width
 W1 = Width to mounting centers

ACH550-UH wall-mounted UL (NEMA) Type 12 (All Voltages)				
Dim Ref	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	lb
UH12-1	18.1	8.7	9.2	18.0
UH12-2	22.1	8.7	9.6	25.0
UH12-3	24.8	10.5	10.0	41.0
UH12-4	29.9	10.5	11.2	58.0
UH12-5	32.1	14.5	12.1	85.0
UH12-6	38.7	16.1	16.6	190.0

ACH550-UH mounting dimensions UL (NEMA) Type 1 (All Voltages)		
Dim Ref	Height (H1)	Width (W1)
	in	in
UH1-1	12.5	3.9
UH1-2	16.4	3.9
UH1-3	18.6	6.3
UH1-4	22.8	6.3
UH1-5	23.1	9.4
UH1-6	26.6	10.4

ACH580-01 UL (NEMA) Type 12 (option +B056) Wall-mounted drives up to 350 hp



ACH580-01 without hood with integrated conduit box (R1-R9)

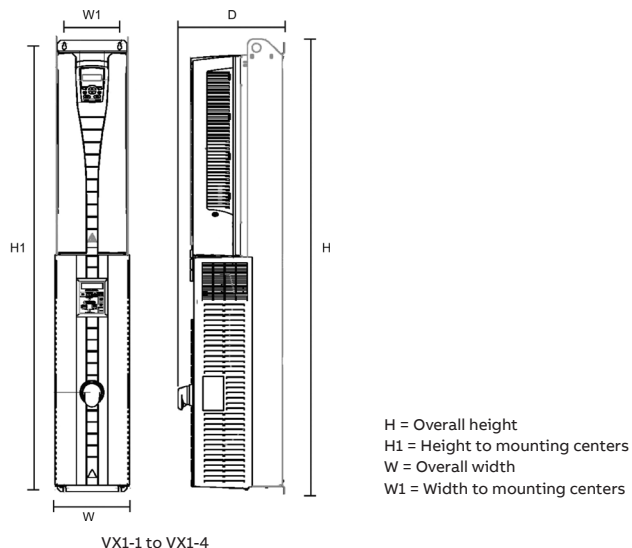
ACH580-01 with hood with integrated conduit box (R1-R9)

ACH580-01, wall-mounted UL (NEMA) Type 12 (All Voltages)					
Dim Ref	Height	Height (H5)	Width	Depth	Weight
	(in)	(in)	(in)	(in)	(lb)
01-12-R1	15.87	17.78	5.04	9.17	10.6
01-12-R2	19.80	21.49	5.04	9.41	15.0
01-12-R3	19.29	20.93	8.11	9.33	28.7
01-12-R4	25.04	27.03	7.99	10.43	44.1
01-12-R5	28.82	32.01	7.99	12.60	64.0
01-12-R6	28.62	34.81	9.92	14.96	94.8
01-12-R7	34.65	40.86	11.18	15.00	123.5
01-12-R8	37.99	44.23	11.81	17.80	169.8
01-12-R9	37.60	46.75	14.96	18.78	227.1

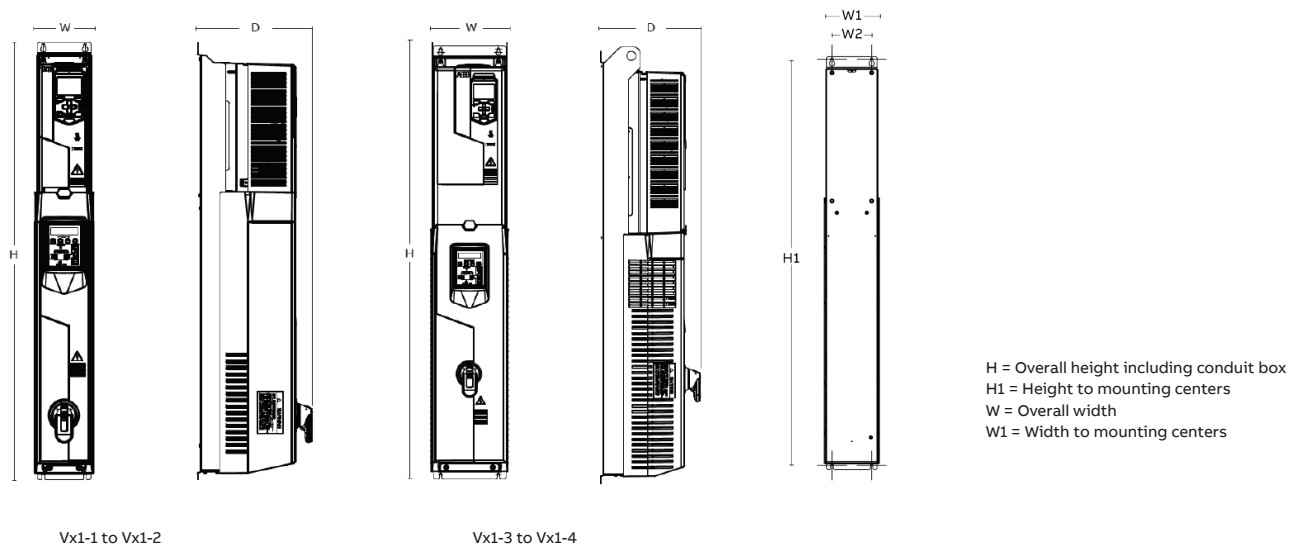
ACH580 mounting dimensions UL (NEMA) Type 12 (All Voltages)			
Dim Ref	Height (H1)	Width (W1)	Width (W2)
	in	in	in
01-1-R1/01-12-R1	12.48	3.86	3.86
01-1-R2/01-12-R2	16.42	3.86	3.86
01-1-R3/01-12-R3	18.62	6.30	6.30
01-1-R4/01-12-R4	24.37	6.30	3.86
01-1-R5/01-12-R5	22.87	6.30	3.86
01-1-R6/01-12-R6	20.91	8.37	6.30
01-1-R7/01-12-R7	22.95	9.65	6.30
01-1-R8/01-12-R8	25.91	10.33	8.43
01-1-R9/01-12-R9	25.91	13.58	7.87

Dimensions and comparison tables

ACH550-VCR and ACH550-VDR, vertical E-Clipse bypass drives UL (NEMA) Type 1 (All Voltages)



ACH580-VCR and ACH580-VDR, vertical E-Clipse bypass drives UL (NEMA) Type 1



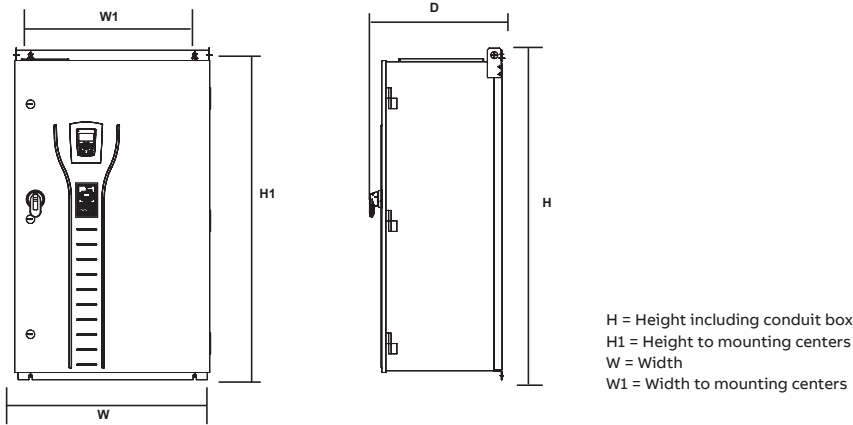
ACH550-VCR and ACH550-VDR, vertical E-Clipse bypass drives UL (NEMA) Type 1 (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Weight (W)	Depth (D)	Weight
	in	in	in	in	in	lb
VX1-1	39.5	3.9	40.2	5.4	10.1	33.0
VX1-2	43.4	3.9	44.1	5.4	10.3	40.0
VX1-3	46.5	6.3	47.7	8.4	10.9	71.0
VX1-4	50.6	6.3	51.8	8.4	12.1	93.0

ACH580-VCR and ACH580-VDR, vertical E-Clipse bypass drives UL (NEMA) Type 1 (All Voltages)							
Dim Ref	Height (H1)	Width (W1)	Width (W2)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	in	lb
Vx1-1	39.51	4.93	3.86	40.18	5.39	10.55	30.0
Vx1-2	43.43	4.93	3.86	44.10	5.39	10.77	50.7
Vx1-3	46.47	8.19	6.30	47.70	8.44	10.90	59.5
Vx1-4*	55.70	8.19	6.30	56.82	8.44	12.00	86.0

* Not available in 600V

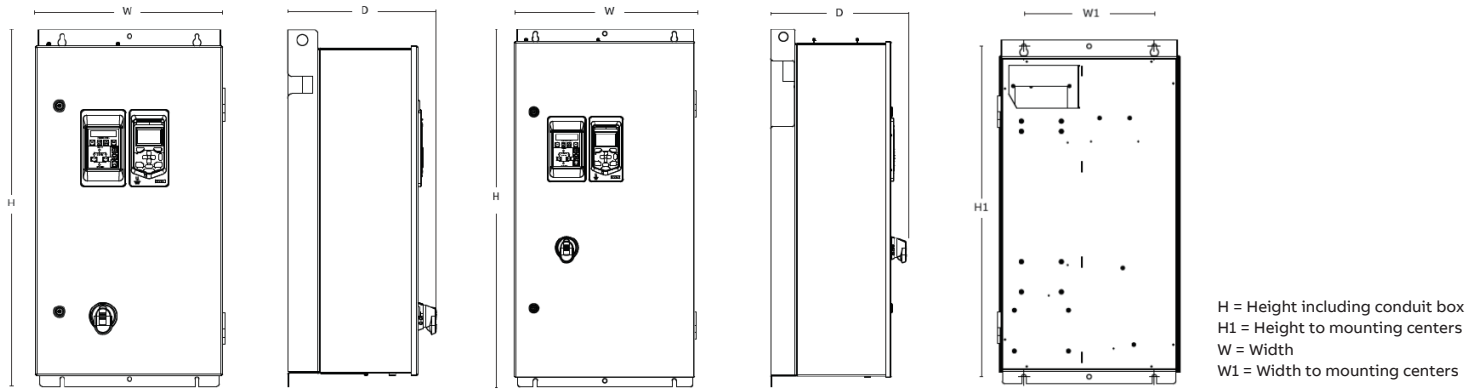
Dimensions and comparison tables

ACH550-BCR and ACH550-BDR, E-Clipse bypass drives UL (NEMA) Type 1



BX1-1 to BX1-6

ACH580-BCR and ACH580-BDR, E-Clipse bypass drives UL (NEMA) Type 1



Bx1-1

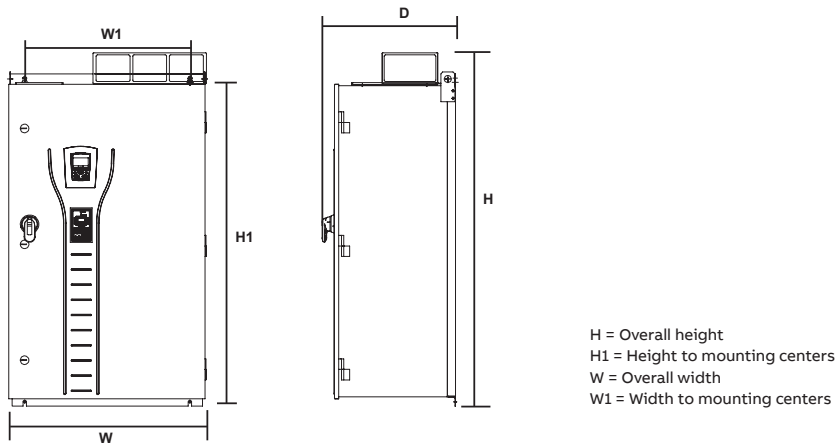
Bx1-2 to Bx1-3

ACH550-BCR and ACH550-BDR, E-Clipse bypass drives UL (NEMA) Type 1 (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
BX1-1	31.9	12.6	33.2	17.4	13.5	78.0
BX1-2	31.9	12.6	33.2	17.4	13.5	84.0
BX1-3	36.1	15.7	37.4	20.5	15.3	120.0
BX1-4	36.1	15.7	37.4	20.5	15.3	138.0
BX1-5	46.3	23.6	47.7	28.1	19.0	267.0
BX1-6	46.3	23.6	47.7	28.1	19.0	359.0

ACH580-BCR and ACH580-BDR, E-Clipse bypass drives UL (NEMA) Type 1 (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
Bx1-1	31.89	12.60	33.16	17.63	13.90	84.0
Bx1-2	39.30	15.70	40.60	20.70	15.30	139.0
Bx1-3	46.26	23.62	47.72	28.24	19.04	448.0

Dimensions and comparison tables

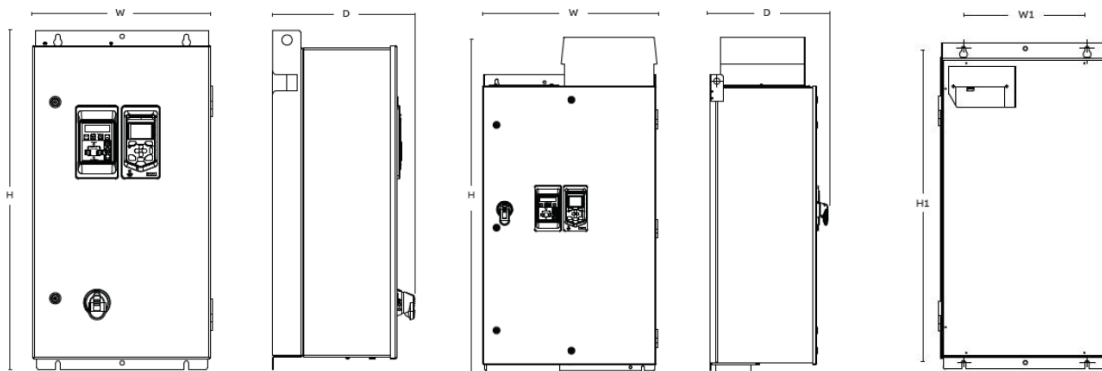
ACH550-BCR and ACH550-BDR, E-Clipse bypass drives UL (NEMA) Type 12



H = Overall height
 H1 = Height to mounting centers
 W = Overall width
 W1 = Width to mounting centers

BX12-1 to BX12-3

ACH580-BCR and ACH580-BDR, E-Clipse bypass drives UL (NEMA) Type 12



H = Overall height
 H1 = Height to mounting centers
 W = Overall width
 W1 = Width to mounting centers

Bx12-1 to Bx12-2

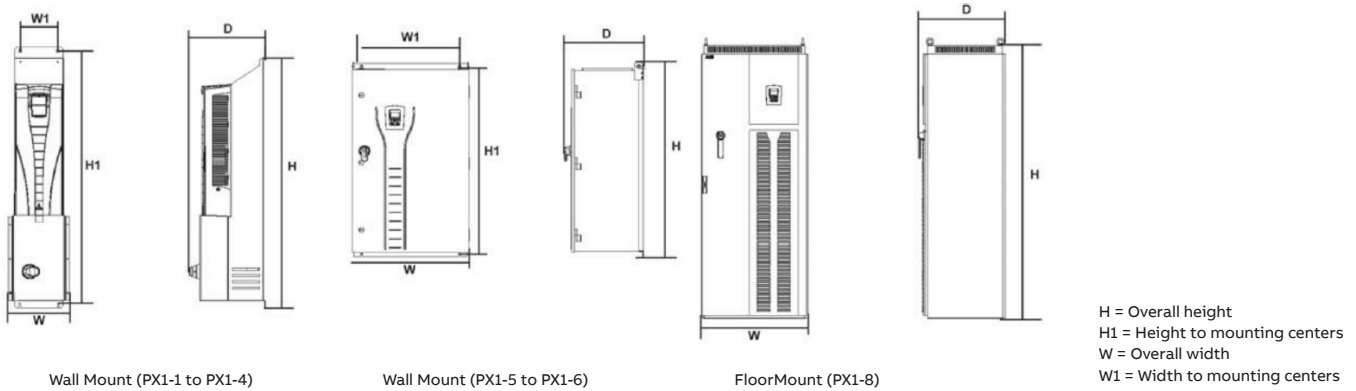
Bx12-3

ACH550-BCR and ACH550-BDR, E-Clipse bypass drives UL (NEMA) Type 12						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
BX12-1	31.9	12.6	33.2	17.4	13.5	78.0
BX12-2	31.9	12.6	33.2	17.4	13.5	84.0
BX12-3	36.1	15.7	37.4	20.5	15.3	120.0
BX12-4	36.1	15.7	37.4	20.5	15.3	138.0
BX12-5	46.3	23.6	54.3	28.1	19.0	267.0
BX12-6	46.3	23.6	54.3	28.1	19.0	359.0

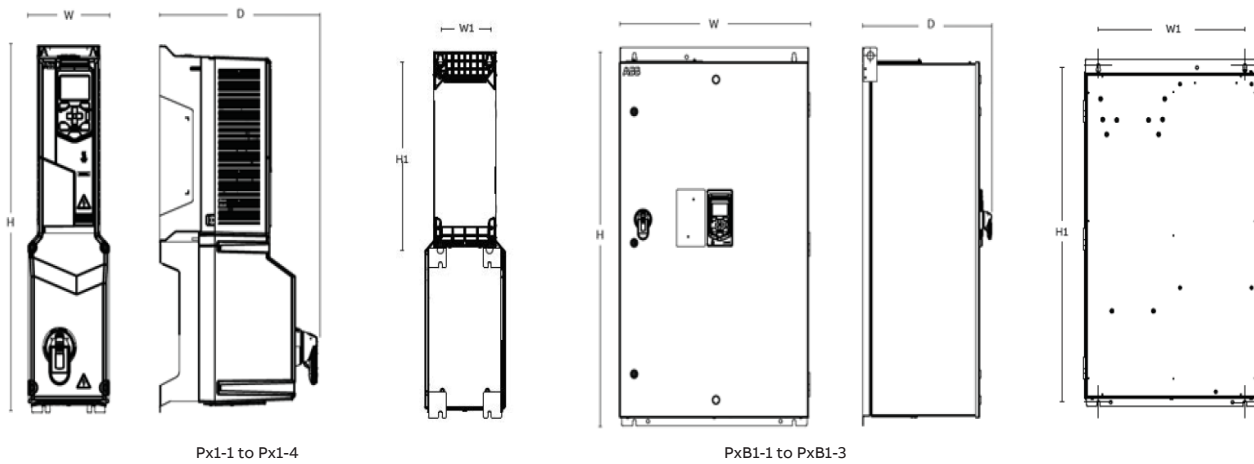
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives UL (NEMA) Type 12 (All voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
Bx12-1	31.89	12.60	33.16	17.63	13.90	84.0
Bx12-2	39.30	15.70	40.60	20.70	15.30	139.0
Bx12-3	46.26	23.62	54.18	28.24	19.04	448.0

Dimensions and comparison tables

ACH550-PCR and ACH550-PDR, packaged drive with disconnect means, UL (NEMA) Type 1



ACH580-PCR and ACH580-PDR, packaged drive with disconnect means, UL (NEMA) Type 1

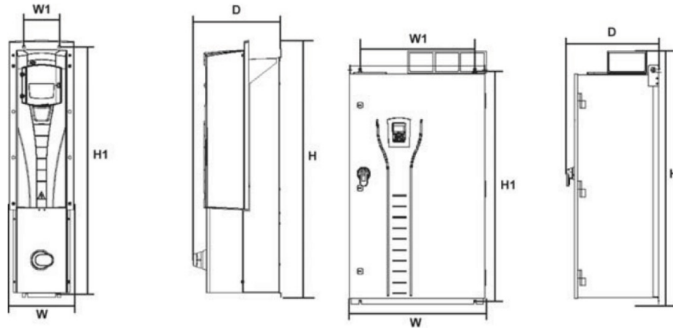


ACH550-PCR and ACH550-PDR, packaged drive with disconnect means, UL (NEMA) Type 1 (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
PX1-1	28.0	3.9	28.7	7.8	11.2	33
PX1-2	32.0	3.9	32.6	7.8	11.2	42
PX1-3	38.7	6.3	39.9	10.2	11.9	75
PX1-4	44.0	6.3	45.2	10.2	13.1	95
PX1-5	46.3	23.6	47.7	28.1	19.0	267
PX1-6	46.3	23.6	47.7	28.1	19.0	359
PX1-8	Free standing		83.7	31.7	25.9	794

ACH580-PCR and ACH580-PDR, packaged drive with disconnect means, UL (NEMA) Type 1 (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
Px1-1	12.48	3.86	24.60	6.34	12.42	18.1
Px1-2	16.42	3.86	28.49	6.34	12.63	22.0
Px1-3	18.75	6.30	34.86	8.39	13.22	39.0
Px1-4	24.49	6.30	40.61	8.39	14.26	60.0
PxB1-1	31.89	12.60	33.16	17.63	13.90	77.0
PxB1-2	39.30	15.70	40.60	20.71	15.30	122.0
PxB1-3	46.26	23.62	47.72	28.24	19.04	359.0

Dimensions and comparison tables

ACH550-PCR and ACH550-PDR, packaged drive with disconnect means, UL (NEMA) Type 12

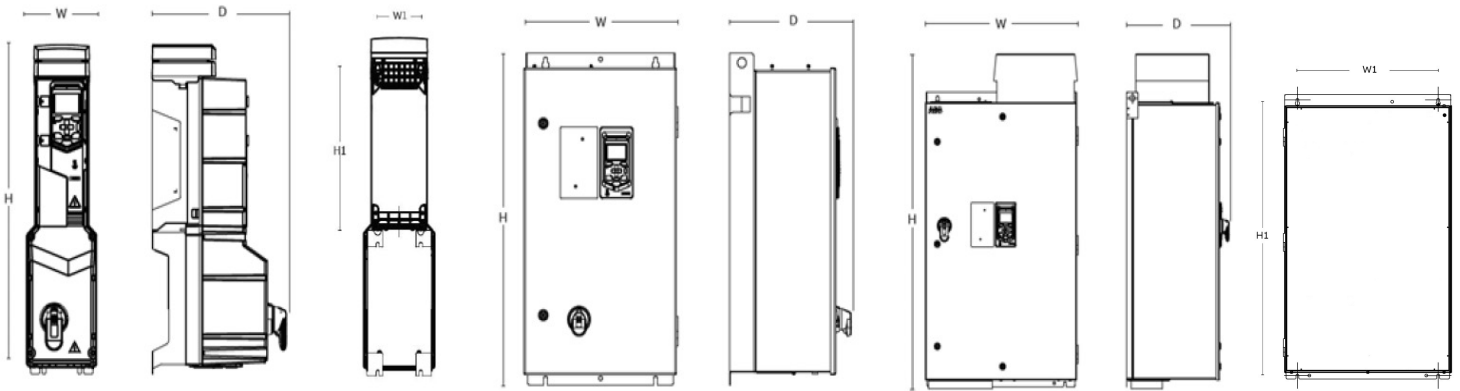


Wall Mount (PX12-1 to PX12-4)

Wall Mount (PX12-5 to PX12-6)

H = Overall height
 H1 = Height to mounting centers
 W = Overall width
 W1 = Width to mounting centers

ACH580-PCR and ACH580-PDR, packaged drive with disconnect means, UL (NEMA) Type 12



Px12-1 to Px12-4

PxB12-1 to PxB12-3

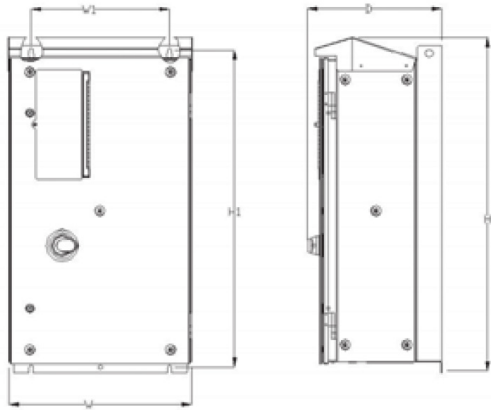
PxB12-4

ACH550-PCR and ACH550-PDR, packaged drive with disconnect means, UL (NEMA) Type 12 (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
PX12-1	28.0	3.9	29.3	8.7	11.2	37.0
PX12-2	32.0	3.9	33.2	8.7	11.6	46.0
PX12-3	38.7	6.3	40.6	10.5	11.9	79.0
PX12-4	44.0	6.3	45.8	10.5	13.1	99.0
PX12-5	46.3	23.6	54.3	28.1	19.0	267.0
PX12-6	46.3	23.6	54.3	28.1	19.0	359.0
PX12-8	Free standing		93.6	31.7	25.9	838.0

ACH580-PCR and ACH580-PDR, packaged drive with disconnect means, UL (NEMA) Type 12 (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
Px12-1	12.48	3.86	26.50	6.50	12.40	18.1
Px12-2	16.42	3.86	30.22	6.50	12.64	22.0
Px12-3	18.75	6.30	36.51	8.39	13.22	39.0
Px12-4	24.49	6.30	42.54	8.39	14.26	60.0
PxB12-1	31.89	12.60	33.16	17.63	13.90	77.0
PxB12-2	39.30	15.70	40.60	20.70	15.30	122.0
PxB12-3	46.26	23.62	48.07	28.24	19.04	359.0

Dimensions and comparison tables

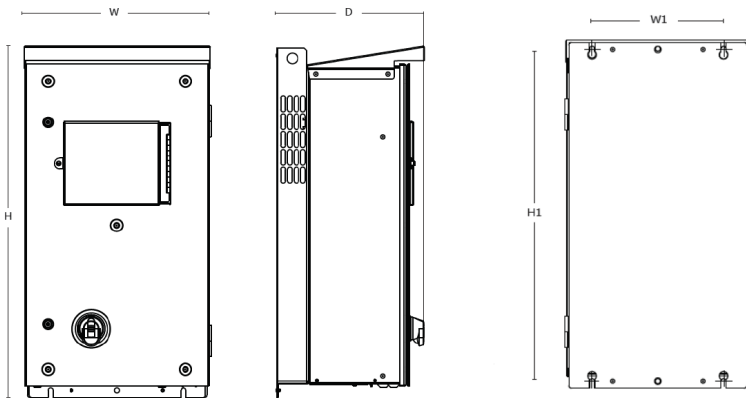
ACH550-PCR and ACH580-P5R, packaged drive with disconnect means, UL (NEMA) Type 3R



H = Overall height
 H1 = Height to mounting centers
 W = Overall width
 W1 = Width to mounting centers

Wall Mount (PX3R-1 to PX3R-6)

ACH580-PCR and ACH580-PDR, packaged drive with disconnect means, UL (NEMA) Type 3R



H = Overall height
 H1 = Height to mounting centers
 W = Overall width
 W1 = Width to mounting centers

PxB3R-1 to PxB3R-2

ACH550-PCR and ACH580-P5R, packaged drive with disconnect means, UL (NEMA) Type 3R (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
PX3R-1	31.9	12.6	34.0	17.8	13.5	128.0
PX3R-2	31.9	12.6	34.0	17.8	13.5	134.0
PX3R-3	36.1	15.7	38.1	20.9	15.3	176.0
PX3R-4	36.1	15.7	38.1	20.9	15.3	194.0
PX3R-5	34.5	28.5	39.0	30.0	15.5	203.0
PX3R-6	46.5	34.5	51.0	36.0	21.5	395.0

ACH580-PCR and ACH580-PDR, packaged drive with disconnect means, UL (NEMA) Type 3R (All Voltages)						
Dim Ref	Height (H1)	Width (W1)	Height (H)	Width (W)	Depth (D)	Weight
	in	in	in	in	in	lb
PxB3R-1	31.90	12.60	33.35	17.70	13.98	77.0
PxB3R-3	39.30	15.70	40.71	20.71	15.40	176.0

Flange Kit Dimensions and Comparison Tables

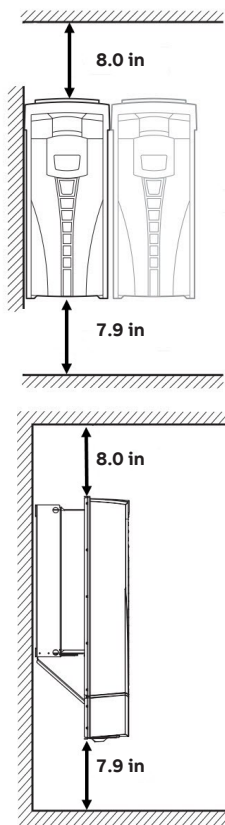


ACH550 (All Voltages)				
Flange Kit	Cutout Height (H1) in	Cutout Width (W1) in	Outer Dim Height (H) in	Outer Dim Width (W) in
FMK-A-R1	15.75	5.67	17.01	8.11
FMK-A-R2	18.58	5.67	20.95	8.11
FMK-A-R3	21.02	8.58	23.39	9.81
FMK-A-R4	26.30	8.58	28.54	9.81
FMK-B-R1	15.75	5.67	17.01	8.11
FMK-B-R2	18.58	5.67	20.95	8.11
FMK-B-R3	21.02	8.58	23.39	9.81
FMK-B-R4	26.30	8.58	28.54	9.81

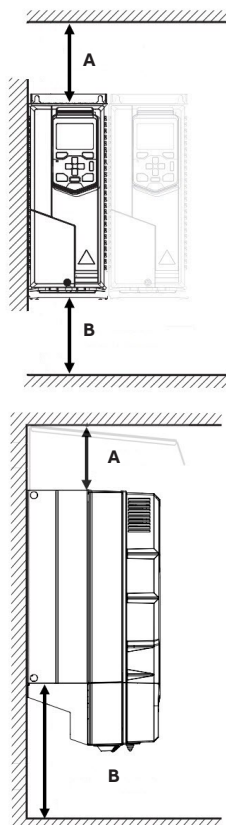
ACH580 (All Voltages)				
Flange Kit	Cutout Height (H1) in	Cutout Width (W1) in	Outer Dim Height (H) in	Outer Dim Width (W) in
FMK-A/B-R1	16.10	5.91	18.15	8.11
FMK-A/B-R2	19.65	5.91	21.69	8.11
FMK-A/B-R3	21.65	9.06	24.13	11.42
FMK-A/B-R4	27.40	9.06	30.55	11.42
FMK-A/B-R5	27.42	9.06	30.55	11.42
FMK-A/B-R6	23.43	11.73	26.46	14.72
FMK-A/B-R7	25.47	12.99	28.43	15.98
FMK-A/B-R8	28.62	13.62	32.05	17.06
FMK-A/B-R9	28.62	16.73	31.65	19.76

Free space requirements

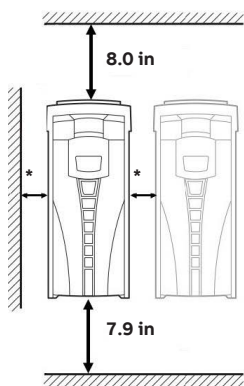
Vertically mounted side by side
ACH550-UH UL (NEMA) Type 1/12
R1..R6



Vertically mounted side by side
ACH580-01 UL (NEMA) Type 1/12

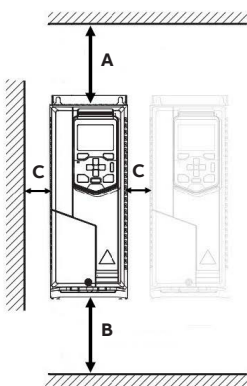


Vertically mounted alone
ACH550-UH UL (NEMA) Type 1/12
R1..R6



* Not Applicable for the ACH550

Vertically mounted alone
ACH580-01 UL (NEMA) Type 1/12



ACH580 Vertically Mounted Side by Side Free Space

Frame Size	Vertical Installation Free Space	
	Above A ¹ (in)	Below B ² (in)
R1	7.87	7.87
R2	7.87	7.87
R3	7.87	7.87
R4	7.87	7.87
R5	7.87	7.87
R6	7.87	11.81
R7	7.87	11.81
R8	7.87	11.81
R9	7.87	11.81

1) Free space above is measured from the frame, not from the hood used in UL (NEMA) Type 12 frames.

Note: The height of the hood for frames R4 and R9 exceeds the requirement for free space above in these frames.

	Frame R4	Frame R9
Hood Height (in)	2.83	9.06

2) Free space below is always measured from the drive frame, not from the conduit box

ACH580 Vertically Mounted Alone Free Space

Frame Size	Vertical Installation Free Space		
	Above A ¹ (in)	Below B ² (in)	Beside C ³ (in)
R1	5.91	3.39	5.91
R2	5.91	3.39	5.91
R3	7.87	2.09	5.91
R4	2.09	7.87	5.91
R5	3.94	7.87	5.91
R6	6.10	11.81	5.91
R7	6.10	11.81	5.91
R8	6.10	11.81	5.91
R9	7.87	11.81	5.91

1) Free space above is measured from the frame, not from the hood used in UL (NEMA) Type 12 frames.

Note: The height of the hood for frames R4 and R9 exceeds the requirement for free space above in these frames.

	Frame R4	Frame R9
Hood Height (in)	2.83	9.06

2) Free space below is always measured from the drive frame, not from the conduit box

3) Free space between the drive and other objects, e.g walls

Cable sizes and power loss data

Low installation sites and box installations

When replacing ACH550 with ACH580 you should consider the cabling lengths since the absence of conduit in ACH580 frames R3 and smaller may require you to lower the mounting points if the cable does not have sufficient stretch. Frames R6 and larger must have 11.8 inches free space below the drive – measured from the fan which is higher than the free space requirement on ACH550. This might require use of longer cables, or mounting clearances.

Horizontal cabling

Also notice that while ACH550 has multiple inlets on the bottom and on the sides of the conduit, the ACH580 has only five inlets which are located solely under the drive. This must be considered when replacing the ACH550 with the ACH580.

Maximum size diameter (AWG)

ACH550		ACH580	
Frame size	Stranded	Stranded	Frame size
R1	8	10	R1
R2	8	6	R2
R3	3	2	R3
R4	1/0	1	R4
R5	2/0	2/0	R5
R6	350 MCM	300 MCM	R6
-		500 MCM	R7
-		2 x 300 MCM	R8
-		2 x 500 MCM	R9

The following type codes have smaller maximum cable sizes than their compared ACH550*:

	HP	Type	A	ACH550 Max AWG	ACH580 Max AWG
208/230V					
R1	1	ACH580-01-04A6-2	4.6	8	10
	1.5	ACH580-01-06A6-2	6.6	8	10
	2	ACH580-01-07A5-2	7.5	8	10
	3	ACH580-01-10A6-2	10.6	8	10
	5	ACH580-01-017A-2	16.7	8	10
R4	25	ACH580-01-075A-2	74.8	1/0	1
R6	50	ACH580-01-143A-2	143	350 MCM	300 MCM
460V					
R1	1	ACH580-01-02A1-4	2.1	8	10
	1.5	ACH580-01-03A0-4	3.0	8	10
	2	ACH580-01-03A5-4	3.5	8	10
	3	ACH580-01-04A8-4	4.8	8	10
	5	ACH580-01-07A6-4	7.6	8	10
	7.5	ACH580-01-012A-4	12	8	10
R4	40	ACH580-01-052A-4	52	1/0	1
	50	ACH580-01-065A-4	65	1/0	1
	60	ACH580-01-077A-4	77	1/0	1
600V					
R3	30	ACH580-01-032A-6	32	3	2
R5	75	ACH580-01-077A-6	77	350 MCM	2/0

* Data only applicable to ACH550-01 and ACH580-01

Heat/Power losses

U₁ = 208V to 240V 3-phase

Power ratings are valid at nominal output voltage 208V 50/60Hz

Base Drive Frame	Hp	Material Description	Max heat dissipation (W)	Air Flow m ³ /hr	Air Flow ft ³ /min
R1	1	ACH550-UH-04A6-2	55	44	26
	1.5	ACH550-UH-06A6-2	73	44	26
	2	ACH550-UH-07A5-2	81	44	26
	3	ACH550-UH-012A-2	116	44	26
	5	ACH550-UH-017A-2	161	44	26
R2	7.5	ACH550-UH-024A-2	227	88	52
	10	ACH550-UH-031A-2	285	88	52
R3	15	ACH550-UH-046A-2	420	134	79
	20	ACH550-UH-059A-2	536	134	79
R4	25	ACH550-UH-075A-2	671	280	165
	30	ACH550-UH-088A-2	786	280	165
	40	ACH550-UH-114A-2	1014	280	165
R6	50	ACH550-UH-143A-2	1268	405	238
	60	ACH550-UH-178A-2	1575	405	238
	75	ACH550-UH-221A-2	1952	405	238
	100	ACH550-UH-248A-2	2189	405	238

U₁ = 380V to 480V 3-phase

Power ratings are valid at nominal output voltage 460V 50/60Hz

Base Drive Frame	Hp	Material Description	Max heat dissipation (W)	Air Flow m ³ /hr	Air Flow ft ³ /min
R1	1	ACH550-UH-03A3-4	40	44	26
	1.5	ACH550-UH-03A3-4	40	44	26
	2	ACH550-UH-04A1-4	52	44	26
	3	ACH550-UH-06A9-4	97	44	26
	5	ACH550-UH-08A8-4	127	44	26
	7.5	ACH550-UH-012A-4	172	44	26
R2	10	ACH550-UH-015A-4	232	88	52
	15	ACH550-UH-023A-4	337	88	52
R3	20	ACH550-UH-031A-4	457	134	79
	25	ACH550-UH-038A-4	562	134	79
	30	ACH550-UH-045A-4	667	134	79
R4	40	ACH550-UH-059A-4	907	280	165
	50	ACH550-UH-072A-4	1120	280	165
	60	ACH550-UH-078A-4	1295	280	165
	75	ACH550-UH-097A-4	1440	280	165
R5	100	ACH550-UH-125A-4	1940	168	238
R6	125	ACH550-UH-157A-4	2310	405	238
	150	ACH550-UH-180A-4	2810	405	238
	200	ACH550-UH-246A-4	3260	405	238
R8	250	ACH550-UH-316A-4*			
	300	ACH550-UH-368A-4*			
	350	ACH550-UH-414A-4*			

* floor standing so not direct comparison to ACH580 wall mounted drives

U₁ = 200V to 240V 3-phase

Power ratings are valid at U_n = 208V/230V 50/60Hz

Base Drive Frame	Hp	Material Description	Max heat dissipation (W)	Air Flow m ³ /hr	Air Flow ft ³ /min
R1	1	ACH580-01-04A6-2	45	43	25
	1.5	ACH580-01-06A6-2	55	43	25
	2	ACH580-01-07A5-2	66	43	25
	3	ACH580-01-10A6-2	84	43	25
	5	ACH580-01-017A-2	133	43	25
R2	7.5	ACH580-01-024A-2	174	101	59
	10	ACH580-01-031A-2	228	101	59
R3	15	ACH580-01-046A-2	322	179	105
	20	ACH580-01-059A-2	430	179	105
R4	25	ACH580-01-075A-2	525	288	170
R5	30	ACH580-01-088A-2	619	139	82
	40	ACH580-01-114A-2	835	139	82
R6	50	ACH580-01-143A-2	1035	435	256
R7	60	ACH580-01-169A-2	1251	450	265
	75	ACH580-01-211A-2	1251	450	265
R8	100	ACH580-01-273A-2	2061	550	324

U₁ = 380V to 480V 3-phase

Power ratings are valid at U_n = 460V 50/60Hz

Base Drive Frame	Hp	Material Description	Max heat dissipation (W)	Air Flow m ³ /hr	Air Flow ft ³ /min
R1	1	ACH580-01-02A1-4	45	43	25
	1.5	ACH580-01-03A0-4	55	43	25
	2	ACH580-01-03A5-4	66	43	25
	3	ACH580-01-04A8-4	84	43	25
	5	ACH580-01-07A6-4	133	43	25
	7.5	ACH580-01-012A-4	174	43	25
R2	10	ACH580-01-014A-4	228	101	59
	15	ACH580-01-023A-4	322	101	59
R3	20	ACH580-01-027A-4	430	179	105
	25	ACH580-01-034A-4	525	179	105
	30	ACH580-01-044A-4	619	179	105
R4	40	ACH580-01-052A-4	835	134	79
	50	ACH580-01-065A-4	1024	134	79
	60	ACH580-01-077A-4	1240	288	79
R5	75	ACH580-01-096A-4	1510	139	82
R6	100	ACH580-01-124A-4	1476	435	256
R7	125	ACH580-01-156A-4	1976	450	265
	150	ACH580-01-180A-4	2346	450	265
R8	200	ACH580-01-240A-4	3336	550	324
R9	250	ACH580-01-302A-4	4836	1150	677
	300	ACH580-01-361A-4	4836	1150	677
	350	ACH580-01-414A-4	6036	1150	677

See notes and definitions on page 4

Heat/Power losses

$U_1 = 500V$ to 600V 3-phase

Power ratings are valid at nominal output voltage 575V 50/60Hz

Base Drive Frame	Hp	Material Description	Max heat dissipation (W)	Air Flow m ³ /hr	Air Flow ft ³ /min
R2	2	ACH550-UH-02A7-6	46	88	52
	3	ACH550-UH-03A9-6	68	88	52
	5	ACH550-UH-06A1-6	124	88	52
	7.5	ACH550-UH-09A0-6	170	88	52
	10	ACH550-UH-011A-6	232	88	52
	15	ACH550-UH-017A-6	337	88	52
R3	20	ACH550-UH-022A-6	457	134	79
	25	ACH550-UH-027A-6	562	134	79
R4	30	ACH550-UH-032A-6	667	280	165
	40	ACH550-UH-041A-6	907	280	165
	50	ACH550-UH-052A-6	1120	280	165
	60	ACH550-UH-062A-6	1295	280	165
R6	75	ACH550-UH-077A-6	1504	405	238
	100	ACH550-UH-099A-6	1821	405	238
	125	ACH550-UH-125A-6	2442	405	238
	150	ACH550-UH-144A-6	2813	405	238

677 $U_1 = 500V$ to 600V 3-phase

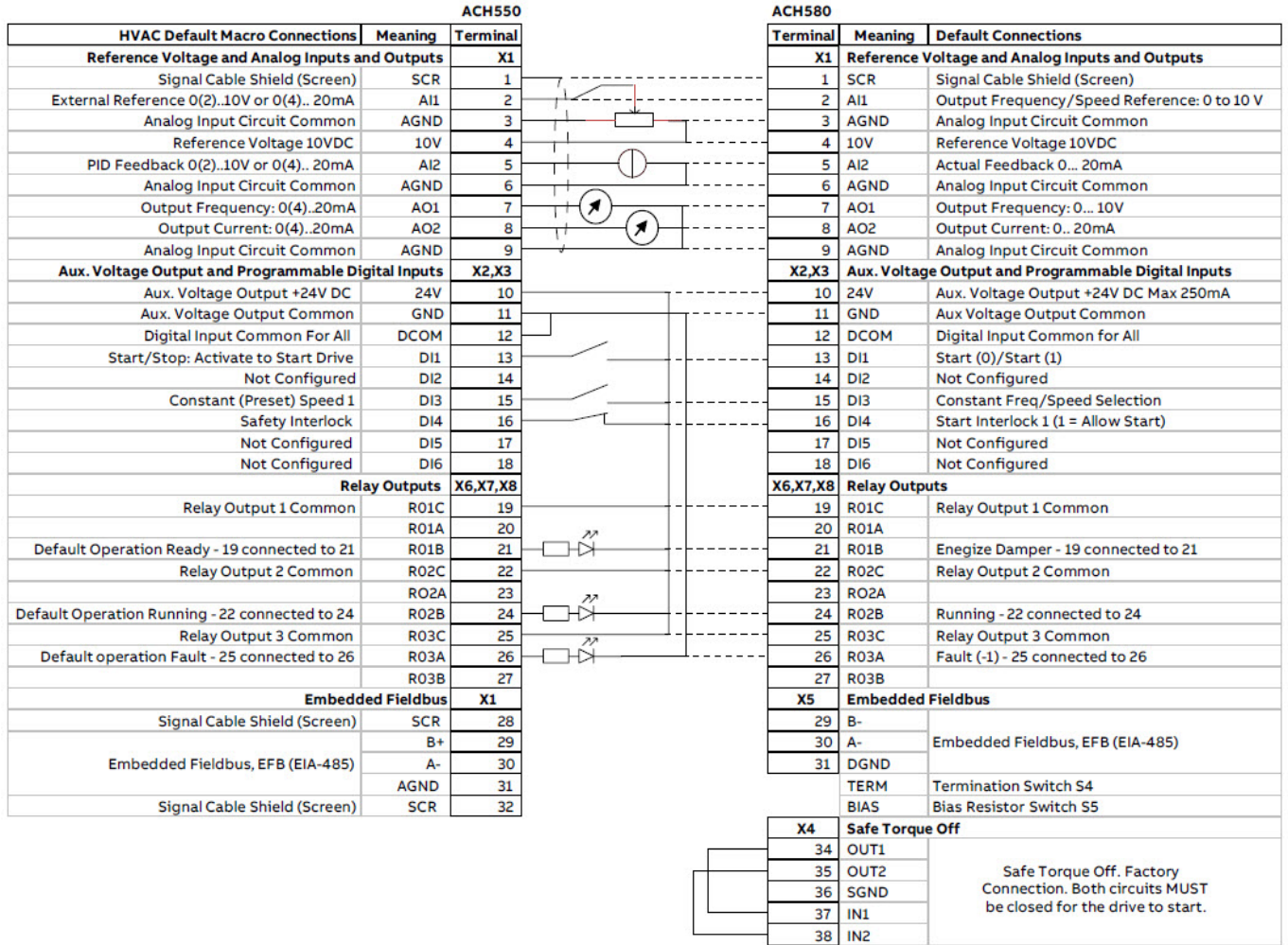
Power ratings are valid at $U_N = 575V$ 50/60Hz

Base Drive Frame	Hp	Material Description	Max heat dissipation (W)	Air Flow m ³ /hr	Air Flow ft ³ /min
R2	2	ACH580-01-02A7-6	66	101	59
	3	ACH580-01-03A9-6	84	101	59
	5	ACH580-01-06A1-6	133	101	59
	7.5	ACH580-01-09A0-6	174	101	59
	10	ACH580-01-011A-6	228	101	59
	15	ACH580-01-017A-6	322	101	59
R3	20	ACH580-01-022A-6	430	179	105
	25	ACH580-01-027A-6	525	179	105
	30	ACH580-01-032A-6	619	139	82
R5	40	ACH580-01-041A-6	835	139	82
	50	ACH580-01-052A-6	1024	139	82
	60	ACH580-01-062A-6	1240	139	82
	75	ACH580-01-077A-6	1510	139	82
R7	100	ACH580-01-099A-6	2061	450	265
	125	ACH580-01-125A-6	2466	450	265
R8	150	ACH580-01-144A-6	3006	550	265
R9	200	ACH580-01-192A-6	4086	1150	324
	200	ACH580-01-242A-6	4086	1150	677
	250	ACH580-01-271A-6	4896	1150	677

See notes and definitions on page 4

Control terminal wiring

ACH550 to ACH580 I/O terminals using HVAC Defaults



Parameter groups

Cross-reference

Parameters are listed in numerical order with first priority given to the ACH550 menu structure, and second priority given to the ACH580 menu structure

ACH550 Group	Description	ACH580 Group	Description
01	Operating Data	→ 01	Actual Values
03	FB Actual Signals	→ 06	Control/status Words
04	Fault History	→ 04	Warnings and Faults
--	--	→ 05	Diagnostics
--	---	→ 11	Standard DIO/FI/ FO
10	Start/Stop/Direction	→ 20	Start/Stop/Direction
11	Reference Select	→ 22	Speed ref. sel.
		→ 28	Frequency chain
12	Constant Speeds	→ 22	Speed ref. sel.
		→ 28	Frequency chain
13	Analog inputs	→ 12	Standard AI
14	Relay Outputs	→ 10	Standard DI/RO
15	Analog Outputs	→ 13	Standard AO
16	System Controls	→ 96	System
17	Override	→ 70	Override
20	Limits	→ 30	Limits
21	Start/Stop Mode	→ 21	Start/Stop Mode
22	Accel/Decel	→ 23	Speed ref. ramp
		→ 28	Frequency chain
23	Speed Control	→ 25	Speed Control
24	Torque Control	→ --	--
25	Critical Speeds	→ 22	Speed ref. sel.
		→ 28	Frequency chain
26	Motor Control	→ 97	Motor Control
29	Maintenance Trigger	→ --	--
30	Fault Functions	→ 31	Fault Functions

ACH550 Group	Description	ACH580 Group	Description
31	Automatic Reset	→ 31	Fault Functions
32	Supervision	→ 32	Supervision
33	Information	→ 7	System Info
34	Panel Display	→ --	--
35	Motor Temp Measurement	→ 35	Motor Thermal Protection
36	Timed Functions	→ 34	Timed Functions
37	User Load Curve	→ 37	User Load Curve
40	Process PID Set 1	→ 40	Process PID Set 1
41	Process PID Set 2	→ 41	Process PID Set 2
42	Ext/Trim PID	→ 71	External PID 1
45	Energy Saving	→ 45	Energy Efficiency
51	Ext. Comm Module	→ 50	Fieldbus Adapter (FBA)
52	Panel Comm	→ 51	FBA A Settings
		→ 52	FBA A Data In
		→ 53	FBA A Data Out
		→ 49	Panel Port Comms
53	EFB Protocol	→ 58	Embedded Fieldbus
64	Load Analyzer	→ 36	Load Analyzer
81	PFA Control	→ 76	PFC Configuration
		→ 77	PFC Maintenance
		→ 80	Flow Calculation
--	--	→ 95	HW Configurations
98	Options	→ 58	Embedded Fieldbus
99	Motor Data	→ 99	Motor Data
9904	Motor Control Mode	→ 99.04	Motor Control Mode

Commissioning the ACH580

All installation and electrical work should be carried out by a trained professional, along with commissioning and start-up. Although the all compatible ACH580 control panel has been designed for ease of use, we strongly advise reference to the ACH580 user manual to assist in the commissioning process.

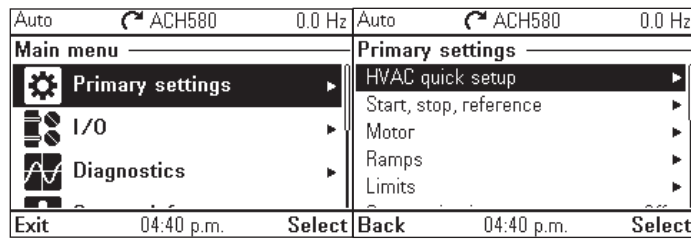
Menu Access

To access menus from the Home view, you can select one of the following by pressing Menu, then:

- Primary Settings
- I/O
- Diagnostic
- System Info

Primary settings menu

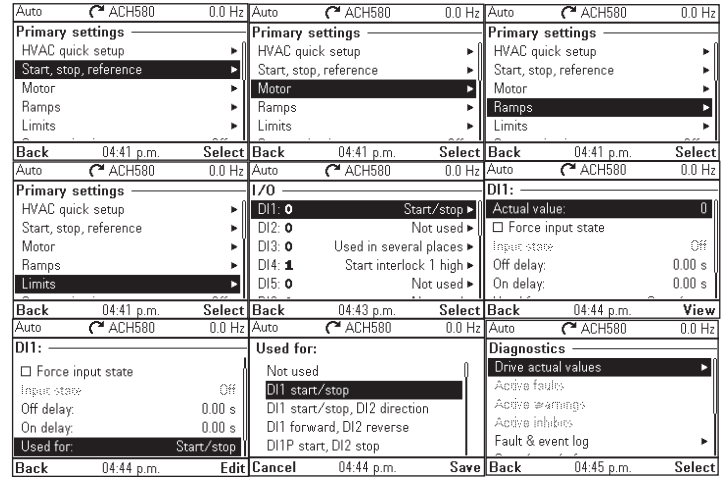
The Primary settings menu on the ACH580 simplifies the use of the drive and contains the most important settings so the user can avoid using the full parameter list when the user requires a quick drive start-up.



With the Primary settings menu, you can also adjust settings related to the motor, PID, fieldbus, advanced functions (i.e. Override) and personalized settings. In addition, you can reset the fault and event logs, panel home view, fieldbus settings, motor data and ID run results, all parameters, end user texts as well as resetting everything to factory defaults.

Note: The Primary settings menu only enables you to modify some of the drive settings: more advanced configuration is done via the parameters. For more information on the different parameters, see chapter Parameters in the ACH580 firmware manual. From the Home view select Menu > Parameters.

The following figure shows the basic navigation in the Primary settings:

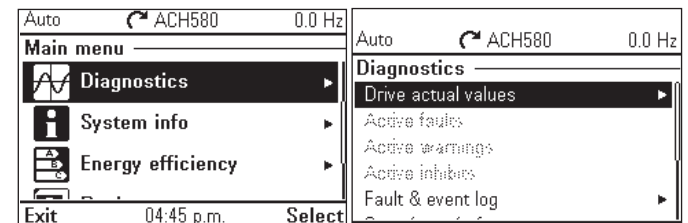


I/O Menu

The I/O menu allows the ability to set up the function(s) for each of the Input and Output terminals as well as monitor the status of any I/O terminal. In addition to checking the settings, each input or output can be toggled for testing purposes, which can be used to aid in diagnostics and testing the system when commissioning the drive where the Building Automation System is not ready to send signals to the drive.

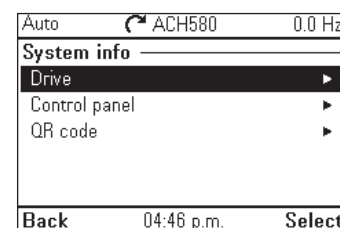
Diagnostics menu

The Diagnostics menu summarizes valuable information from the drive such as summary of start, stop, direction and reference location, as well as log of faults and events is shown as well. It can assist in determining if something is limiting the drive's operation.



System Info Menu

The System info menu shows information about the drive and the control panel. You can also request the drive to generate a QR code for ABB service, so they can better assist you.



Additional information

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