

Addendum to ACH550-PC/PD User Manual REV B

Maximum Wire Size Capacities and Tightening Torques for Input Disconnects

The change of the input disconnect switches and circuit breakers used in some ACH550-PCR and PDR units results in a change to the maximum wire size and tightening torque information shown in the rev. B User's Manual.

Power Connection Terminals

The following tables show maximum wire size and required tightening torque for incoming power, motor and grounding terminals.

208...240 Volt

208...240 Volt		Base Drive Frame Size	Power Wiring Data ²						
HP	Type Code ¹		Circuit Breaker 1&12	Circuit Breaker 3R	Disconnect Switch 1&12	Disconnect Switch 3R	Motor Terminals	Ground Lugs UL Type 1&12	Ground Lugs UL Type 3R
1	ACH550-PxR-04A6-2	R1	#10 35 in-lbs	#10 62 in-lbs	#10 7 in-lbs	#10 7 in-lbs	#10 12 in-lbs	#10 35 in-lbs	#10 40 in-lbs
1.5	ACH550-PxR-06A6-2	R1							
2	ACH550-PxR-07A5-2	R1							
3	ACH550-PxR-012A-2	R1							
5	ACH550-PxR-017A-2	R1							
7.5	ACH550-PxR-024A-2	R2	#6 45 in-lbs	#6 62 in-lbs	#8 7 in-lbs	#8 7 in-lbs	#6 12 in-lbs	#6 35 in-lbs	#6 40 in-lbs
10	ACH550-PxR-031A-2	R2				#6 7 in-lbs			
15	ACH550-PxR-046A-2	R3	#3 50 in-lbs	#3 62 in-lbs	#4 18 in-lbs	#4 18 in-lbs	#3 24 in-lbs	#3 50 in-lbs	#3 50 in-lbs
20	ACH550-PxR-059A-2	R3							
25	ACH550-PxR-075A-2	R4	#1 50 in-lbs	#1 62 in-lbs	#1 55 in-lbs	#1 55 in-lbs	#1 48 in-lbs	#2 50 in-lbs	#2 50 in-lbs
30	ACH550-PxR-088A-2	R4	350 MCM 274 in-lbs	300 MCM 200 in-lbs	#1/0 70 in-lbs	#1/0 70 in-lbs	#1/0 48 in-lbs		
40	ACH550-PxR-114A-2	R4			300 MCM 275 in-lbs	300 MCM 200 in-lbs			
50	ACH550-PxR-143A-2	R6					350 MCM 360 in-lbs	3 x #3/0 250 in-lbs	#2/0 275 in-lbs
60	ACH550-PxR-178A-2	R6							
75	ACH550-PxR-221A-2	R6			2 x 250 MCM 274 in-lbs	2 x 250 MCM 275 in-lbs	2 x 250 MCM 274 in-lbs	2 x 250 MCM 275 in-lbs	350 MCM 100 in-lbs
100	ACH550-PxR-248A-2	R6							

1. "PxR" represents both PCR and PDR.

2. Torque values shown relate to current production. Check component labels on previously installed units for required tightening torque.

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380...480 Volt

380...480 Volt		Base Drive Frame Size	Power Wiring Data ²						Ground Lugs UL Type 1&12	Ground Lugs UL Type 3R
HP	Type Code ¹		Circuit Breaker 1&12	Circuit Breaker 3R	Disconnect Switch 1&12	Disconnect Switch 3R	Motor Terminals			
1/1.5	ACH550-PxR-03A3-4	R1	#10 35 in-lbs	#10 62 in-lbs	#10 7 in-lbs	#10 7 in-lbs	#10 12 in-lbs	#10 35 in-lbs	#10 40 in-lbs	
2	ACH550-PxR-04A1-4	R1								
3	ACH550-PxR-06A9-4	R1								
5	ACH550-PxR-08A8-4	R1								
7.5	ACH550-PxR-012A-4	R1								
10	ACH550-PxR-015A-4	R2	#6 45 in-lbs	#6 62 in-lbs	#8 7 in-lbs	#8 7 in-lbs	#6 12 in-lbs	#6 35 in-lbs	#6 40 in-lbs	
15	ACH550-PxR-023A-4	R2								
20	ACH550-PxR-031A-4	R3	#3 50 in-lbs	#3 62 in-lbs	#4 18 in-lbs	#4 18 in-lbs	#3 24 in-lbs	#3 50 in-lbs	#3 50 in-lbs	
25	ACH550-PxR-038A-4	R3								
30	ACH550-PxR-045A-4	R3								
40	ACH550-PxR-059A-4	R4	#1 50 in-lbs	#1 62 in-lbs	#1 55 in-lbs	#1 55 in-lbs	#1 48 in-lbs	#1 50 in-lbs	#2 50 in-lbs	
50	ACH550-PxR-072A-4	R4								
60	ACH550-PxR-078A-4	R4								
75	ACH550-PxR-097A-4	R4	350 MCM 274 in-lbs	300 MCM 200 in-lbs	#1/0 70 in-lbs	#1/0 70 in-lbs	#1/0 48 in-lbs	3 x #3/0 250 in-lbs	#2/0 375 in-lbs	
100	ACH550-PxR-125A-4	R5								
125	ACH550-PxR-157A-4	R6								
150	ACH550-PxR-180A-4	R6								
200	ACH550-PxR-246A-4	R6								
250	ACH550-PxR-316A-4	R8	2 x 500 MCM 274 in-lbs	2 x 500 MCM 275 in-lbs	2 x 500 MCM 274 in-lbs	2 x 500 MCM 275 in-lbs	2 x 500 MCM 500 in-lbs	5 Bus Bar Holes (13/32" Bolts)		
300	ACH550-PxR-368A-4	R8								
350	ACH550-PxR-414A-4	R8								
400	ACH550-PxR-486A-4	R8								
450	ACH550-PxR-526A-4	R8								
500	ACH550-PxR-602A-4	R8	3 x 400 MCM 375 in-lbs	3 x 400 MCM 375 in-lbs	3 x 400 MCM 375 in-lbs	3 x 400 MCM 375 in-lbs	2 x 600 MCM 500 in-lbs			
550	ACH550-PxR-645A-4	R8								

1. "PxR" represents both PCR and PDR.

2. Torque values shown relate to current production. Check component labels on previously installed units for required tightening torque.

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500..600 Volt

500...600 Volt		Frame Size	Power Wiring Data ²						
HP	Type Code ¹		Circuit Breaker 1&12	Circuit Breaker 3R	Disconnect Switch 1&12	Disconnect Switch 3R	Motor Terminals	Ground Lugs UL Type 1&12	Ground Lugs UL Type 3R
2	ACH550-PxR-02A7-6	R2	#6 62 in-lbs	#6 62 in-lbs	#8 7 in-lbs	#8 7 in-lbs	#6 12 in-lbs	#6 35 in-lbs	#6 40 in-lbs
3	ACH550-PxR-03A9-6	R2							
5	ACH550-PxR-06A1-6	R2							
7.5	ACH550-PxR-09A0-6	R2							
10	ACH550-PxR-011A-6	R2							
15	ACH550-PxR-017A-6	R2							
20	ACH550-PxR-022A-6	R3	#3 62 in-lbs	#3 62 in-lbs	#4 18 in-lbs	#4 18 in-lbs	#3 24 in-lbs	#3 50 in-lbs	#3 50 in-lbs
25	ACH550-PxR-027A-6	R3							
30	ACH550-PxR-032A-6	R4	#1 62 in-lbs	#1 62 in-lbs	#4 18 in-lbs	#1 55 in-lbs	#1 48 in-lbs	#2 50 in-lbs	#2 50 in-lbs
40	ACH550-PxR-041A-6	R4							
50	ACH550-PxR-052A-6	R4							
60	ACH550-PxR-062A-6	R4							
75	ACH550-PxR-077A-6	R6	350 MCM 274 in-lbs	300 MCM 275 in-lbs	#1/0 70 in-lbs	#1/0 70 in-lbs	350 MCM 360 in-lbs	3 x #3/0 250 in-lbs	#2/0 375 in-lbs
100	ACH550-PxR-099A-6	R6							
125	ACH550-PxR-125A-6	R6							
150	ACH550-PxR-144A-6	R6							

1. "PxR" represents both PCR and PDR.

2. Torque values shown relate to current production. Check component labels on previously installed units for required tightening torque.