

Engineering Data and Ratings Tables

Fuses

Drive input fuses are recommended to disconnect the drive from power in the event that a component fails in the drive's power circuitry. Recommended drive input fuse specifications are listed in the *Submittal Schedule Details* and in the *Fuse Ratings Table*. Fuse rating information is provided for customer reference.

Item	Catalog Number	Drive Input Fuse Ratings	
		Amps (600V)	Busmann Type
1	ACQ550-CC-017A-2+B055	30	KTK-R-30
2	ACQ550-CC-08A8-4+B055	15	KTK-R-15
3	ACQ550-CC-024A-2+B055	30	KTK-R-30
4	ACQ550-CC-012A-4+B055	15	KTK-R-15
5	ACQ550-CC-031A-2+B055	50	JJS-50
6	ACQ550-CC-015A-4+B055	30	KTK-R-30
7	ACQ550-CC-046A-2+B055	80	JJS-80
8	ACQ550-CC-023A-4+B055	30	KTK-R-30
9	ACQ550-CC-059A-2+B055	80	JJS-80
10	ACQ550-CC-031A-4+B055	50	JJS-50
11	ACQ550-CC-075A-2+B055	100	JJS-100
12	ACQ550-CC-038A-4+B055	50	JJS-50
13	ACQ550-CC-088A-2+B055	110	JJS-110
14	ACQ550-CC-045A-4+B055	100	JJS-100
15	ACQ550-CC-114A-2+B055	150	JJS-150
16	ACQ550-CC-059A-4+B055	100	JJS-100
17	ACQ550-CC-072A-4+B055	100	JJS-100
18	ACQ550-CC-078A-4+B055	100	JJS-100

Terminal Sizes / Cable Connection Requirements

Power and motor cable terminal sizes and connection requirements are shown in the *Submittal Schedule Details* and in the *Terminal Sizes / Cable Connection Requirements Table*. The information provided below is for connections to input power and motor cables. These connections may be made to an input circuit breaker or disconnect switch, a motor terminal block, overload relay, and/or directly to bus bars and ground lugs. The table also lists torque that should be applied when tightening terminals and spacing requirements where multiple mounting holes are provided in the bus bar.

Item	Catalog Number	Circuit Breaker	Disconnect Switch	Terminal Block	Overload Relay	Ground Lug
------	----------------	-----------------	-------------------	----------------	----------------	------------

Item	Catalog Number	Circuit Breaker	Disconnect Switch	Terminal Block	Overload Relay	Ground Lug
1	ACQ550-CC-017A-2+B055	#10 35 in-lbs	N/A N/A	N/A N/A	#10 13 in-lbs	#10 40 in-lbs
2	ACQ550-CC-08A8-4+B055	#10 35 in-lbs	N/A N/A	N/A N/A	#10 13 in-lbs	#10 40 in-lbs
3	ACQ550-CC-024A-2+B055	#6 45 in-lbs	N/A N/A	N/A N/A	#10 13 in-lbs	#6 40 in-lbs
4	ACQ550-CC-012A-4+B055	#10 35 in-lbs	N/A N/A	N/A N/A	#10 13 in-lbs	#10 40 in-lbs
5	ACQ550-CC-031A-2+B055	#6 45 in-lbs	N/A N/A	N/A N/A	#8 21 in-lbs	#6 40 in-lbs
6	ACQ550-CC-015A-4+B055	#6 45 in-lbs	N/A N/A	N/A N/A	#10 13 in-lbs	#6 40 in-lbs
7	ACQ550-CC-046A-2+B055	#3 50 in-lbs	N/A N/A	N/A N/A	#3 36 in-lbs	#3 50 in-lbs
8	ACQ550-CC-023A-4+B055	#6 45 in-lbs	N/A N/A	N/A N/A	#10 13 in-lbs	#6 40 in-lbs
9	ACQ550-CC-059A-2+B055	#3 50 in-lbs	N/A N/A	N/A N/A	#3 36 in-lbs	#3 50 in-lbs
10	ACQ550-CC-031A-4+B055	#3 50 in-lbs	N/A N/A	N/A N/A	#8 21 in-lbs	#3 50 in-lbs
11	ACQ550-CC-075A-2+B055	#1 50 in-lbs	N/A N/A	N/A N/A	#2 36 in-lbs	#2 50 in-lbs
12	ACQ550-CC-038A-4+B055	#3 50 in-lbs	N/A N/A	N/A N/A	#3 36 in-lbs	#3 50 in-lbs
13	ACQ550-CC-088A-2+B055	#2/0 274 in-lbs	N/A N/A	N/A N/A	#2/0 300 in-lbs	#2 50 in-lbs
14	ACQ550-CC-045A-4+B055	#3 50 in-lbs	N/A N/A	N/A N/A	#3 36 in-lbs	#3 50 in-lbs
15	ACQ550-CC-114A-2+B055	#2/0 274 in-lbs	N/A N/A	N/A N/A	#2/0 300 in-lbs	#2 50 in-lbs
16	ACQ550-CC-059A-4+B055	#1 50 in-lbs	N/A N/A	N/A N/A	#2 36 in-lbs	#2 50 in-lbs
17	ACQ550-CC-072A-4+B055	#1 50 in-lbs	N/A N/A	N/A N/A	#2 36 in-lbs	#2 50 in-lbs
18	ACQ550-CC-078A-4+B055	#1 50 in-lbs	N/A N/A	N/A N/A	#2 36 in-lbs	#2 50 in-lbs

Heat Dissipation Requirements

The cooling air entering the drive must be clean and free from corrosive materials. The *Submittal Schedule Details* and the *Heat Dissipation Requirements* table below give the heat dissipated into the hot air exhausted from the drives. If the drives are installed in a confined space, the heat must be removed from the area by ventilation or air conditioning equipment.

Item	Catalog Number	Power Losses		Airflow	
		Watts	BTU/Hr	CFM	GM/Hr
1	ACQ550-CC-017A-2+B055	161	551	26	44
2	ACQ550-CC-08A8-4+B055	127	433	26	44
3	ACQ550-CC-024A-2+B055	227	776	52	88
4	ACQ550-CC-012A-4+B055	172	587	26	44
5	ACQ550-CC-031A-2+B055	285	373	52	88
6	ACQ550-CC-015A-4+B055	232	792	52	88
7	ACQ550-CC-046A-2+B055	420	1434	79	134
8	ACQ550-CC-023A-4+B055	337	1150	52	88
9	ACQ550-CC-059A-2+B055	536	1829	79	134
10	ACQ550-CC-031A-4+B055	457	1560	79	134
11	ACQ550-CC-075A-2+B055	671	2290	165	280
12	ACQ550-CC-038A-4+B055	562	1918	79	134
13	ACQ550-CC-088A-2+B055	786	2685	165	280
14	ACQ550-CC-045A-4+B055	667	2276	79	134
15	ACQ550-CC-114A-2+B055	1014	3463	165	280
16	ACQ550-CC-059A-4+B055	907	3096	165	280
17	ACQ550-CC-072A-4+B055	1120	3820	165	280
18	ACQ550-CC-078A-4+B055	1295	4420	165	280

Dimensions and Weights

Dimensions and weights of the drives provided are given in the *Submittal Schedule Details* and in the *Dimensions and Weights* Table. The table also lists the applicable dimension drawings that include additional detail. Dimension drawings may be provided in the back of this submittal.

Item	Catalog Number	Height mm / in	Width mm / in	Depth mm / in	Weight kg / lbs	Dimension Drawing
1	ACQ550-CC-017A-2+B055	610 / 24	457 / 18	375 / 14.8	36 / 78	3AUA0000012801 1
2	ACQ550-CC-08A8-4+B055	610 / 24	457 / 18	375 / 14.8	36 / 78	3AUA0000012801 1
3	ACQ550-CC-024A-2+B055	762 / 30	610 / 24	375 / 14.8	51 / 113	3AUA0000012802 1
4	ACQ550-CC-012A-4+B055	610 / 24	457 / 18	375 / 14.8	36 / 78	3AUA0000012801 1
5	ACQ550-CC-031A-2+B055	762 / 30	610 / 24	375 / 14.8	51 / 113	3AUA0000012802 1
6	ACQ550-CC-015A-4+B055	610 / 24	457 / 18	375 / 14.8	38 / 84	3AUA0000012801 1
7	ACQ550-CC-046A-2+B055	914 / 36	762 / 30	375 / 14.8	78 / 172	3AUA0000012803 1
8	ACQ550-CC-023A-4+B055	610 / 24	457 / 18	375 / 14.8	38 / 84	3AUA0000012801 1
9	ACQ550-CC-059A-2+B055	914 / 36	762 / 30	375 / 14.8	78 / 172	3AUA0000012803 1
10	ACQ550-CC-031A-4+B055	762 / 30	610 / 24	375 / 14.8	64 / 141	3AUA0000012802 1
11	ACQ550-CC-075A-2+B055	914 / 36	762 / 30	375 / 14.8	93 / 205	3AUA0000012803 1
12	ACQ550-CC-038A-4+B055	762 / 30	610 / 24	375 / 14.8	64 / 141	3AUA0000012802 1

Item	Catalog Number	Height mm / in	Width mm / in	Depth mm / in	Weight kg / lbs	Dimension Drawing
13	ACQ550-CC-088A-2+B055	1219 / 48	914 / 36	528 / 20.8	118 / 259	3AUA0000012804 1
14	ACQ550-CC-045A-4+B055	914 / 36	762 / 30	375 / 14.8	78 / 172	3AUA0000012803 1
15	ACQ550-CC-114A-2+B055	1219 / 48	914 / 36	528 / 20.8	118 / 259	3AUA0000012804 1
16	ACQ550-CC-059A-4+B055	914 / 36	762 / 30	375 / 14.8	93 / 205	3AUA0000012803 1
17	ACQ550-CC-072A-4+B055	914 / 36	762 / 30	375 / 14.8	93 / 205	3AUA0000012803 1
18	ACQ550-CC-078A-4+B055	914 / 36	762 / 30	375 / 14.8	93 / 205	3AUA0000012803 1

Schematics and Wire Diagrams

Detailed wiring diagrams and schematics may be included for the products covered in this submittal. Please reference the following ABB part numbers for the drawings included with this submittal:

Item	Catalog Number	Power Wiring	Connection Diagram	Dimension Detail
1	ACQ550-CC-017A-2+B055	3AUA0000014935- A509	3AUA0000014935- B707	3AUA0000012801 1
2	ACQ550-CC-08A8-4+B055	3AUA0000014935- A509	3AUA0000014935- B707	3AUA0000012801 1
3	ACQ550-CC-024A-2+B055	3AUA0000014935- A509	3AUA0000014935- B707	3AUA0000012802 1
4	ACQ550-CC-012A-4+B055	3AUA0000014935- A509	3AUA0000014935- B707	3AUA0000012801 1
5	ACQ550-CC-031A-2+B055	3AUA0000014935- A509	3AUA0000014935- B707	3AUA0000012802 1
6	ACQ550-CC-015A-4+B055	3AUA0000014935- A509	3AUA0000014935- B707	3AUA0000012801 1
7	ACQ550-CC-046A-2+B055	3AUA0000014935- A513	3AUA0000014935- B707	3AUA0000012803 1
8	ACQ550-CC-023A-4+B055	3AUA0000014935- A509	3AUA0000014935- B707	3AUA0000012801 1
9	ACQ550-CC-059A-2+B055	3AUA0000014935- A513	3AUA0000014935- B707	3AUA0000012803 1

Item	Catalog Number	Power Wiring	Connection Diagram	Dimension Detail
10	ACQ550-CC-031A-4+B055	3AUA0000014935-A509	3AUA0000014935-B707	3AUA0000012802 1
11	ACQ550-CC-075A-2+B055	3AUA0000014935-A513	3AUA0000014935-B707	3AUA0000012803 1
12	ACQ550-CC-038A-4+B055	3AUA0000014935-A509	3AUA0000014935-B707	3AUA0000012802 1
13	ACQ550-CC-088A-2+B055	3AUA0000014935-A513	3AUA0000014935-B707	3AUA0000012804 1
14	ACQ550-CC-045A-4+B055	3AUA0000014935-A513	3AUA0000014935-B707	3AUA0000012803 1
15	ACQ550-CC-114A-2+B055	3AUA0000014935-A513	3AUA0000014935-B707	3AUA0000012804 1
16	ACQ550-CC-059A-4+B055	3AUA0000014935-A513	3AUA0000014935-B707	3AUA0000012803 1
17	ACQ550-CC-072A-4+B055	3AUA0000014935-A513	3AUA0000014935-B707	3AUA0000012803 1
18	ACQ550-CC-078A-4+B055	3AUA0000014935-A513	3AUA0000014935-B707	3AUA0000012803 1

Product short Circuit Current Rating

Short circuit ratings shown below are as show on the device rating label.

Item	Catalog Number	Short Circuit Current Rating
1	ACQ550-CC-017A-2+B055	100 kA
2	ACQ550-CC-08A8-4+B055	100 kA
3	ACQ550-CC-024A-2+B055	100 kA
4	ACQ550-CC-012A-4+B055	100 kA
5	ACQ550-CC-031A-2+B055	100 kA
6	ACQ550-CC-015A-4+B055	100 kA
7	ACQ550-CC-046A-2+B055	100 kA
8	ACQ550-CC-023A-4+B055	100 kA
9	ACQ550-CC-059A-2+B055	100 kA
10	ACQ550-CC-031A-4+B055	100 kA
11	ACQ550-CC-075A-2+B055	100 kA
12	ACQ550-CC-038A-4+B055	100 kA
13	ACQ550-CC-088A-2+B055	100 kA
14	ACQ550-CC-045A-4+B055	100 kA
15	ACQ550-CC-114A-2+B055	100 kA
16	ACQ550-CC-059A-4+B055	100 kA
17	ACQ550-CC-072A-4+B055	100 kA
18	ACQ550-CC-078A-4+B055	100 kA

