

9. Electrical characteristics

Select the breaker based on MCA of the following tables.

Select the wire diameter based on the larger value of MCA or TOCA of the following tables.

Select a wire diameter which withstands the breaker capacity.

Select the correct cable type and size according to the country or region's regulations.

Limited wiring length is in case voltage drop less than 2%. When wiring length extend longer, select the wiring size of larger diameter.

- RLA: Rated Load Amp of compressor under the standard condition
- MCA: Minimum Circuit Ampacity = Maximum operating current (Full load)
- MSC: Maximum Starting Current
- TOCA: Total Over-Current Ampacity
- MFA: Main Fuse (circuit breaker) Ampacity

9-1. Stand-alone

HP	Model name	Power supply: 50 Hz, 400 V		
		Full load characteristics		
		MCA (A)	TOCA (A)	MSC (A)
8	AJ*072GALBH	18.7	17.0	18.5
10	AJ*090GALBH	23.3	21.2	22.7
12	AJ*108GALBH	23.3	21.2	22.7
14	AJ*126GALBH	37.4	34.0	35.5
16	AJ*144GALBH	37.4	34.0	35.5

HP	Model name	Wiring specifications*1			
		MFA (A)	Power cable (mm ²)	Earth cable (mm ²)	Limited wiring length*2 (m)
8	AJ*072GALBH	20	4	4	51
10	AJ*090GALBH	25	6	6	62
12	AJ*108GALBH	25	6	6	62
14	AJ*126GALBH	40	10	10	64
16	AJ*144GALBH	40	10	10	64

*1: These values are recommended data. Select the wiring specification in accordance with local rules.

*2: This wiring length is in case voltage drop less than 2%. When wiring length extend longer, select the wiring size of larger diameter.

HP	Model name	Compressor	Outdoor fan motor	
		RLA (A)	Output (kW)	FLA (A)
8	AJ*072GALBH	11.2	0.75	1.1
10	AJ*090GALBH	11.2	0.75	1.1
12	AJ*108GALBH	11.2	0.75	1.1
14	AJ*126GALBH	13.5	0.75	1.1
16	AJ*144GALBH	13.5	0.75	1.1

9-2. Space saving combination

HP	Set model name	Model name	Power supply: 50 Hz, 400 V		
			Full load characteristics		
			MCA (A)	TOCA (A)	MSC (A)
18	AJ*162GALBH	AJ*090GALBH AJ*072GALBH	42.0	38.2	41.2
20	AJ*180GALBH	AJ*090GALBH AJ*090GALBH	46.6	42.4	45.4
22	AJ*198GALBH	AJ*108GALBH AJ*090GALBH	46.6	42.4	45.4
24	AJ*216GALBH	AJ*108GALBH AJ*108GALBH	46.6	42.4	45.4
26	AJ*234GALBH	AJ*144GALBH AJ*090GALBH	60.7	55.2	58.2
28	AJ*252GALBH	AJ*144GALBH AJ*108GALBH	60.7	55.2	58.2
30	AJ*270GALBH	AJ*144GALBH AJ*126GALBH	74.8	68.0	71.0
32	AJ*288GALBH	AJ*144GALBH AJ*144GALBH	74.8	68.0	71.0
34	AJ*306GALBH	AJ*108GALBH AJ*108GALBH AJ*090GALBH	69.9	63.6	68.1
36	AJ*324GALBH	AJ*108GALBH AJ*108GALBH AJ*108GALBH	69.9	63.6	68.1
38	AJ*342GALBH	AJ*144GALBH AJ*108GALBH AJ*090GALBH	84.0	76.4	80.9
40	AJ*360GALBH	AJ*144GALBH AJ*108GALBH AJ*108GALBH	84.0	76.4	80.9
42	AJ*378GALBH	AJ*144GALBH AJ*144GALBH AJ*090GALBH	98.1	89.2	93.7
44	AJ*396GALBH	AJ*144GALBH AJ*144GALBH AJ*108GALBH	98.1	89.2	93.7
46	AJ*414GALBH	AJ*144GALBH AJ*144GALBH AJ*126GALBH	112.2	102.0	106.5
48	AJ*432GALBH	AJ*144GALBH AJ*144GALBH AJ*144GALBH	112.2	102.0	106.5

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9-3. Energy efficiency combination

HP	Set model name	Model name	Power supply: 50 Hz, 400 V		
			Full load characteristics		
			MCA (A)	TOCA (A)	MSC (A)
16	AJ*144GALBHH	AJ*072GALBH AJ*072GALBH	37.4	34.0	37.0
22	AJ*198GALBHH	AJ*126GALBH AJ*072GALBH	56.1	51.0	54.0
24	AJ*216GALBHH	AJ*072GALBH AJ*072GALBH AJ*072GALBH	56.1	51.0	55.5
26	AJ*234GALBHH	AJ*090GALBH AJ*072GALBH AJ*072GALBH	60.7	55.2	59.7
28	AJ*252GALBHH	AJ*090GALBH AJ*090GALBH AJ*072GALBH	65.3	59.4	63.9
30	AJ*270GALBHH	AJ*090GALBH AJ*090GALBH AJ*090GALBH	69.9	63.6	68.1
32	AJ*288GALBHH	AJ*126GALBH AJ*090GALBH AJ*072GALBH	79.4	72.2	76.7
34	AJ*306GALBHH	AJ*126GALBH AJ*090GALBH AJ*090GALBH	84.0	76.4	80.9
36	AJ*324GALBHH	AJ*126GALBH AJ*126GALBH AJ*072GALBH	93.5	85.0	89.5
38	AJ*342GALBHH	AJ*126GALBH AJ*126GALBH AJ*090GALBH	98.1	89.2	93.7
40	AJ*360GALBHH	AJ*144GALBH AJ*126GALBH AJ*090GALBH	98.1	89.2	93.7
42	AJ*378GALBHH	AJ*126GALBH AJ*126GALBH AJ*126GALBH	112.2	102.0	106.5
44	AJ*396GALBHH	AJ*144GALBH AJ*126GALBH AJ*126GALBH	112.2	102.0	106.5

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