

## 3-8. ELECTRIC CHARACTERISTICS

### ■ SPACE SAVING COMBINATION

		Rated Value		Electric Characteristics									
		Power Supply		Full Load Characteristics			Wiring Specifications *1				Compressor	Outdoor Fan Motor	
HP	Model name	Hz	Voltage (V)	MCA (A)	TOCA (A)	MSC (A)	MFA (A)	Power Cable (mm <sup>2</sup> )	Earth Cable (mm <sup>2</sup> )	Limied Wiring Length (m)*2	RLA (A)	Output (kW)	FLA (A)
8HP	AJ*A72LALH	50	400	24.7	25.2	19.2	30	4	4	30	10.2	0.7	3.2
10HP	AJ*A90LALH	50	400	24.7	25.2	19.2	30	4	4	30	10.2	0.7	3.2
12HP	AJ*108LALH	50	400	38.0	41.2	95.2	50	10	6	42	10.2+10.0	0.7	3.2
14HP	AJ*126LALH	50	400	38.0	41.2	95.2	50	10	6	42	10.2+10.0	0.7	3.2
16HP	AJ*144LALH	50	400	38.0	41.2	95.2	50	10	6	42	10.2+10.0	0.7	3.2

OUTDOOR UNITS

OUTDOOR UNITS

- Select the breaker based on MCA of the table above.
- Select the wire diameter based on the larger value of MCA or TOCA of the table above and select a wire diameter which withstands the breaker capacity.

\*1 Wiring Spec : These values are recommended data. Please select the wiring spec in accordance with local rules.

\*2 Limited Wiring Length : This 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 : Min Circuit Amp = Max Operating Current (Full Load)

MSC : Max Starting Current

TOCA : Total Value of Each Over Current Set

MFA : Main Fuse (Circuit Breaker) Current

HP	Set model name	Model name	Rated Value		Electric Characteristics		
			Power Supply		Full Load Characteristics		
Hz	Voltage (V)	MCA (A)	TOCA (A)	MSC (A)			
18HP	AJ*162LALH	AJ*A90LALH AJ*A72LALH	50	400	49.4	50.4	38.4
20HP	AJ*180LALH	AJ*108LALH AJ*A72LALH	50	400	62.7	66.4	114.4
22HP	AJ*198LALH	AJ*108LALH AJ*A90LALH	50	400	62.7	66.4	114.4
24HP	AJ*216LALH	AJ*108LALH AJ*108LALH	50	400	76.0	82.4	190.4
26HP	AJ*234LALH	AJ*126LALH AJ*108LALH	50	400	76.0	82.4	190.4
28HP	AJ*252LALH	AJ*144LALH AJ*108LALH	50	400	76.0	82.4	190.4
30HP	AJ*270LALH	AJ*144LALH AJ*126LALH	50	400	76.0	82.4	190.4
32HP	AJ*288LALH	AJ*144LALH AJ*144LALH	50	400	76.0	82.4	190.4
34HP	AJ*306LALH	AJ*108LALH AJ*108LALH AJ*A90LALH	50	400	100.7	107.6	209.6
36HP	AJ*324LALH	AJ*108LALH AJ*108LALH AJ*108LALH	50	400	114.0	123.6	285.6
38HP	AJ*342LALH	AJ*126LALH AJ*108LALH AJ*108LALH	50	400	114.0	123.6	285.6
40HP	AJ*360LALH	AJ*144LALH AJ*108LALH AJ*108LALH	50	400	114.0	123.6	285.6
42HP	AJ*378LALH	AJ*144LALH AJ*126LALH AJ*108LALH	50	400	114.0	123.6	285.6
44HP	AJ*396LALH	AJ*144LALH AJ*144LALH AJ*108LALH	50	400	114.0	123.6	285.6
46HP	AJ*414LALH	AJ*144LALH AJ*144LALH AJ*126LALH	50	400	114.0	123.6	285.6
48HP	AJ*432LALH	AJ*144LALH AJ*144LALH AJ*144LALH	50	400	114.0	123.6	285.6

- Select the breaker based on MCA of the table above.
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MCA : Min Circuit Amp = Max Operating Current (Full Load)

MSC : Max Starting Current

TOCA : Total Value of Each Over Current Set

MFA : Main Fuse (Circuit Breaker) Current

## ■ ENERGY EFFICIENCY COMBINATION

HP	Set model name	Model name	Rated Value		Electric Characteristics		
			Power Supply		Full Load Characteristics		
			Hz	Voltage (V)	MCA (A)	TOCA (A)	MSC (A)
16HP	AJ*144LALHH	AJ*A72LALH AJ*A72LALH	50	400	49.4	50.4	38.4
22HP	AJ*198LALHH	AJ*126LALH AJ*A72LALH	50	400	62.7	66.4	114.4
24HP	AJ*216LALHH	AJ*A72LALH AJ*A72LALH AJ*A72LALH	50	400	74.1	75.6	57.6
26HP	AJ*234LALHH	AJ*A90LALH AJ*A72LALH AJ*A72LALH	50	400	74.1	75.6	57.6
28HP	AJ*252LALHH	AJ*108LALH AJ*A72LALH AJ*A72LALH	50	400	87.4	91.6	133.6
30HP	AJ*270LALHH	AJ*126LALH AJ*A72LALH AJ*A72LALH	50	400	87.4	91.6	133.6
32HP	AJ*288LALHH	AJ*108LALH AJ*108LALH AJ*A72LALH	50	400	100.7	107.6	209.6
34HP	AJ*306LALHH	AJ*126LALH AJ*108LALH AJ*A72LALH	50	400	100.7	107.6	209.6
36HP	AJ*324LALHH	AJ*126LALH AJ*126LALH AJ*A72LALH	50	400	100.7	107.6	209.6
40HP	AJ*360LALHH	AJ*126LALH AJ*126LALH AJ*108LALH	50	400	114.0	123.6	285.6
42HP	AJ*378LALHH	AJ*126LALH AJ*126LALH AJ*126LALH	50	400	114.0	123.6	285.6
44HP	AJ*396LALHH	AJ*144LALH AJ*126LALH AJ*126LALH	50	400	114.0	123.6	285.6

- Select the breaker based on MCA of the table above.
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### 3-9. SAFETY DEVICES

Safety device	AJ*A72LALH	AJ*A90LALH	AJ*108LALH	AJ*126LALH	AJ*144LALH
Fuse (Main PCB)			AC 250V 3.15A AC 500V 15A		
Protector (INV PCB)			AC 500V 25A		
	INV COMP		Overcurrent protection - Temperature protection Off : 110°C On : 80°C		
Compressor Protector	CONST COMP	—	Temperature protection Off:155°C±5(0A) On:80°C±11(0A) Minimum operation current On:14.4A(120°C) Off:20.0A(120°C) Over current protection 3 - 10sec 59.0A		
High Pressure Protection			Off : 4.2MPa On : 3.2MPa		
Low Pressure Protection			Off : 0.05MPa		