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: Starting current (The maximum current during startup of the compressor)
- TOCA: Total Over-Current Ampacity
- MFA: Main Fuse (circuit breaker) Ampacity

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9-1. Stand-alone

HP	Model name	Power supply	Full load characteristics		
			MCA (A)	TOCA (A)	MSC (A)
4	AJ∗040LCLDH	50 Hz, 230 V	27.7	29.5	28.4
5	AJ∗045LCLDH		27.7	29.5	28.4
6	AJ∗054LCLDH		29.7	31.5	30.4

HP	Model name	Wiring specifications			
		MFA (A)	Power cable (mm^2)	Earth cable (mm^2)	Limited wiring length (m)
4	AJ∗040LCLDH	32	6	4	18
5	AJ∗045LCLDH	32	6	4	18
6	AJ∗054LCLDH	32	6	4	18

HP	Model name	Compressor	Outdoor fan motor	
		RLA (A)	Output (W)	FLA (A)
4	AJ∗040LCLDH	24	111	0.51
5	AJ∗045LCLDH	24	111	0,51
6	AJ∗054LCLDH	26	111	0.51

10. Safety devices

Type of protection	Protection form		Model		
			AJ∗040LCLDH	AJ∗045LCLDH	AJ∗054LCLDH
Circuit protection	Fuse (Filter PCB)		AC 250 V, 5 A		
	Protector (Filter PCB)		AC 500 V, 45 A		
Compressor protector	Over current protection		—		
	Temperature protection	Activate	115 °C Compressor stop		
		Reset	80 °C Compressor restart		
High pressure protection		Activate	4.0 MPa Compressor stop		
		Reset	3.5 MPa Compressor restart		
Low pressure protection		Activate	0.05 MPa Compressor stop		
		Reset	—		
Fan motor thermal protector		Activate	115±15°C Fan motor stop		
		Reset	70 °C Fan motor restart		

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