

## 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

### 9-1. Stand-alone

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

| HP | Model name  | Wiring specifications*1 |                                |                                |                             |
|----|-------------|-------------------------|--------------------------------|--------------------------------|-----------------------------|
|    |             | MFA (A)                 | Power cable (mm <sup>2</sup> ) | Earth cable (mm <sup>2</sup> ) | Limited wiring length*2 (m) |
| 8  | AJ*072GALDH | 20                      | 4                              | 4                              | 51                          |
| 10 | AJ*090GALDH | 25                      | 6                              | 6                              | 62                          |
| 12 | AJ*108GALDH | 25                      | 6                              | 6                              | 62                          |
| 14 | AJ*126GALDH | 40                      | 10                             | 10                             | 64                          |
| 16 | AJ*144GALDH | 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*072GALDH | 11.2       | 0.75              | 1.1     |
| 10 | AJ*090GALDH | 11.2       | 0.75              | 1.1     |
| 12 | AJ*108GALDH | 11.2       | 0.75              | 1.1     |
| 14 | AJ*126GALDH | 13.5       | 0.75              | 1.1     |
| 16 | AJ*144GALDH | 13.5       | 0.75              | 1.1     |