



FC 280 Filter Cable Distances

It was obtained using a system with frequency converter (with mounting plate), and protected motor cables.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Filter type**  **(internal)** | **Supply voltage/nominal power** | | | **Class A2/EN 55011** | | **Class A1/EN 55011** | | **Class B/EN 55011** | |
|  | **3x380-480 V** | **3x200-240 V** | **1x200-240 V** | **Executed** | **Spreading** | **Executed** | **Spreading** | **Executed** | **Spreading** |
| A2 filter | 0.37-22 kW  (0,5–30 hp) | – | – | 25 m (82 ft) | Yes1) | – | – | – | – |
| – | 0.37-4 kW  (0,5–5,4 hp) | – | 25 m (82 ft) | Yes1) | – | – | – | – |
| – | – | 0.37-2.2 kW  (0,5–3 hp) | – | – | – | – | – | – |
| A1 filter | 0.37-7.5 kW  (0,5–10 hp) | – | – | 25 m (82 ft) | Yes1) | 25 m  (£82) | Yes | – | – |
| 11-22 kW  (15–30 hp) | – | – | 50 m (164 ft) | Yes1) | 50 m  (£164) | Yes | – | – |
| – | – | 0.37-2.2 kW  (0,5–3 hp) | 40 m (131 ft) | Yes1) | 40 m  (£131) | Yes | 15 m  (£49.2m) | – |
|  | 0.37-22 kW | – | – | – | – | – | – | – | – |
| A2 filter | (0,5–30 hp) |
| Emc | – | 0.37-4 kW | – | – | – | – | – | – | – |
| Life | (0,5–5,4 hp) |
| removed2) | – | – | 0.37-2.2 kW | – | – | – | – | – | – |
|  | (0,5–3 hp) |
|  | 0.37-7.5 kW | – | – | 5 m (16.4 ft) | Yes1) | – | – | – | – |
| A1 filter | (0,5–10 hp) |
| Emc | 11-22 kW | – | – | 5 m (16.4 ft) | Yes1) | – | – | – | – |
| Life | (15–30 hp) |
| removed2) | – | – | 0.37-2.2 kW | 5 m (16.4 ft) | Yes1) | – | – | – | – |
|  | (0,5–3 hp) |

**EMC Emission (Filter type: internal)**

1. The frequency range between 150 kHz and 30 MHz *is not compatible between IEC/EN 61800-3 and EN 55011 and is not* necessarily  included.
2. *Low ground leakage current. Compatible for working on ELCB/IT networks.*

*The* test results in Table 2.14 were obtained using a system with frequency converter (with mounting plate), external filter, engine and protected motor cables. The 3-phase 380–480 V frequency converter must be with built-in A1 filter.

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