



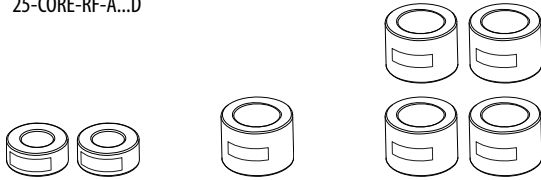
# PowerFlex 520-Series EMC Cores

Catalog Numbers: 25-CORE-A, 25-CORE-B, 25-CORE-C, 25-CORE-D, 25-CORE-E, 25-CORE-RF-A, 25-CORE-RF-B, 25-CORE-RF-C, 25-CORE-RF-D, 25-CORE-RF-E

25-CORE-A...D  
25-CORE-RF-A...D

25-CORE-RF-E

25-CORE-E



**IMPORTANT** EMC cores are included with:

- drives that have an internal EMC filter (25x-xxxxN114)
- external EMC filter accessory kit (25-RFxxx)

## EMC Core Requirements

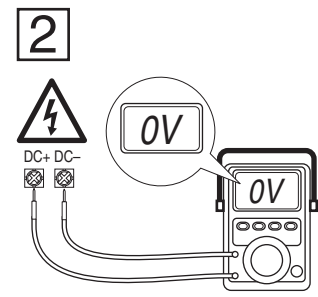
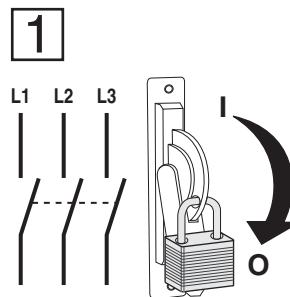
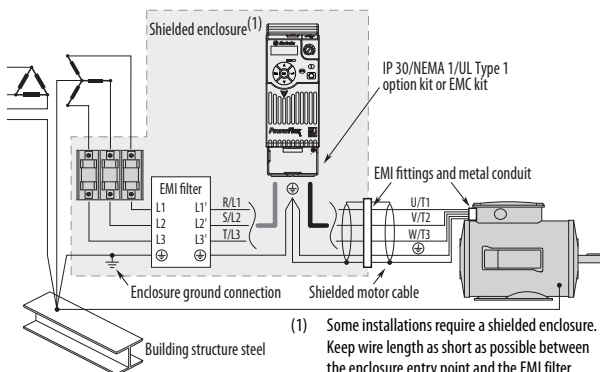
Frame Size	Class C1			Class C2			Catalog Number
	Enclosure	Conduit or Shielded Cable @ Input	EMC Cores Required	Enclosure	Conduit or Shielded Cable @ Input	EMC Cores Required	
<b>100...120V AC (-15%, +10%) – 1-Phase Input with External EMC Filter, 0...120V 1-Phase Output</b>							
A	No	No	No	No	No	No	No
B	No	No	No	No	No	No	No
<b>200...240V AC (-15%, +10%) – 1-Phase Input with External EMC Filter, 0...230V 3-Phase Output</b>							
A	Yes	Yes	No	No	No	Input/Output	25-CORE-RF-A
B	Yes	Yes	Output only	No	No	Input/Output	25-CORE-RF-B
<b>200...240V AC (-15%, +10%) – 1-Phase Input with Internal EMC Filter, 0...230V 3-Phase Output<sup>(1)</sup></b>							
A	*	*	*	Yes	No	No	-
B	*	*	*	Yes	No	No	-
<b>200...240V AC (-15%, +10%) – 3-Phase Input with External EMC Filter, 0...230V 3-Phase Output</b>							
A	Yes	Yes	Output only	No	No	Input/Output	25-CORE-RF-A
B	Yes	Yes	Output only	No	No	Input/Output	25-CORE-RF-B
C	Yes	Yes	Output only	No	No	Input/Output	25-CORE-RF-C
D	Yes	Yes	No	No	No	Input only	25-CORE-RF-D
E	Yes	Yes	Output only	No	No	Input only	25-CORE-RF-E

Frame Size	Class C1			Class C2			Catalog Number
	Enclosure	Conduit or Shielded Cable @ Input	EMC Cores Required	Enclosure	Conduit or Shielded Cable @ Input	EMC Cores Required	
<b>380...480V AC (-15%, +10%) – 3-Phase Input with External EMC Filter, 0...460V 3-Phase Output</b>							
A	Yes	Yes	No	No	No	Input/Output	25-CORE-RF-A
B	Yes	Yes	No	No	No	Input/Output	25-CORE-RF-B
C	Yes	Yes	No	No	No	Input only	25-CORE-RF-C
D	Yes	Yes	Output only	No	No	Input/Output	25-CORE-RF-D
E	Yes	Yes	No	Yes	No	Input/Output	25-CORE-E
<b>380...480V AC (-15%, +10%) – 3-Phase Input with Internal EMC Filter, 0...460V 3-Phase Output<sup>(1)</sup></b>							
A	*	*	*	No	No	Input/Output	25-CORE-A
B	*	*	*	No	No	Input/Output	25-CORE-B
C	*	*	*	No	No	Input/Output	25-CORE-C
D	*	*	*	No	No	Input/Output	25-CORE-D
E	*	*	*	No	No	Input/Output	25-CORE-E
<b>525...600V AC (-15%, +10%) – 3-Phase Input with External EMC Filter, 0...575V 3-Phase Output</b>							
A	Yes	Yes	No	No	No	Input/Output	25-CORE-RF-B
B	Yes	Yes	No	No	No	Input/Output	25-CORE-RF-B
C	Yes	Yes	No	No	No	Input/Output	25-CORE-RF-C
D	Yes	Yes	No	No	No	Input/Output	25-CORE-RF-D
E	Yes	Yes	No	Yes	No	No	-

**IMPORTANT** An enclosure, shielded input cable, and EMC cores are not required to meet class C3 requirements.

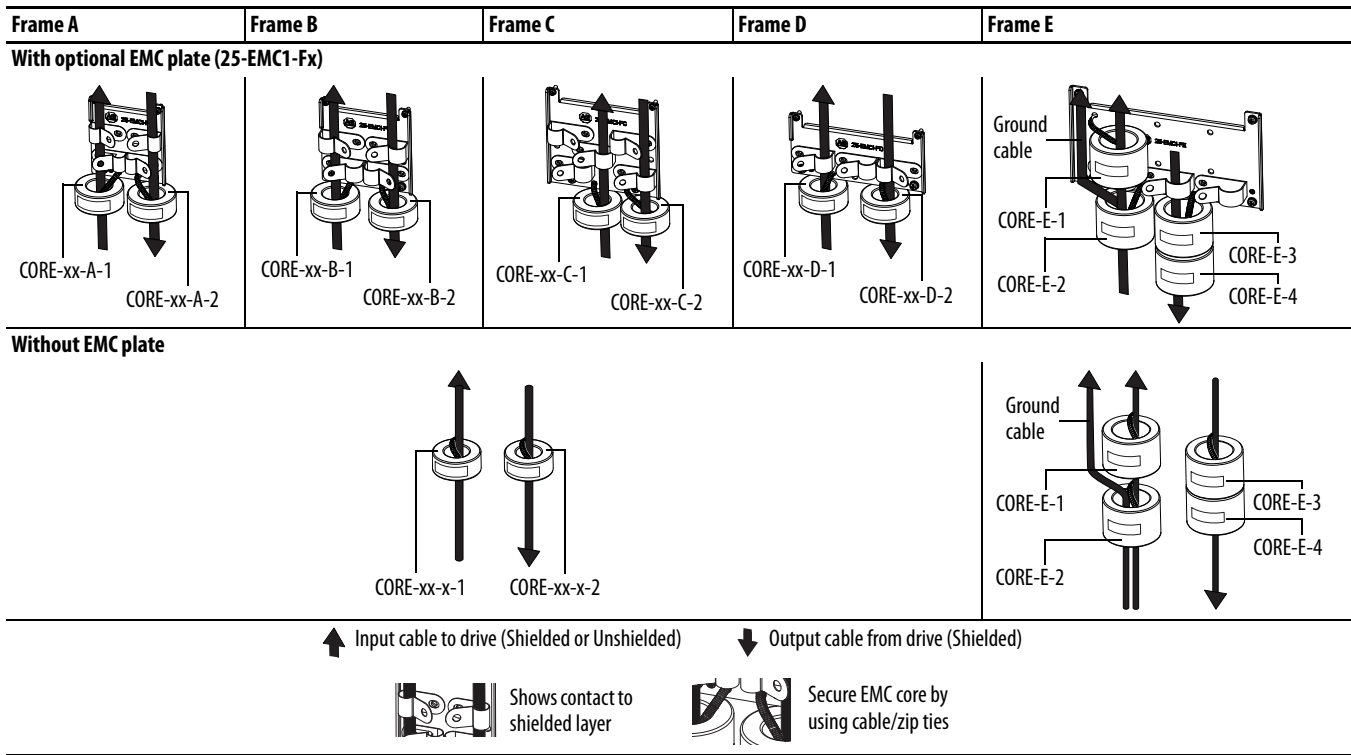
(1) An (\*) indicates that EMC requirements are not met.

For more information, see "Installation Requirements Related to EN 61800-3 and the EMC Directive" in the PowerFlex 520-series user manual, publication [520-UM001](#).



Wait three minutes after shutdown for capacitors to discharge to safe voltage levels.

**Recommended Placement of EMC Cores**



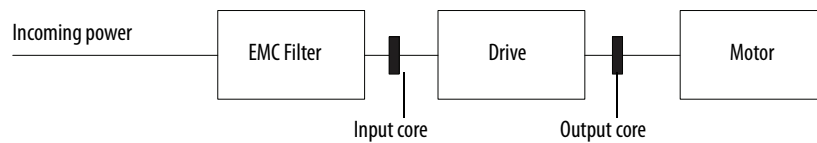
**IMPORTANT**

The ground cable/shield for both input and output must pass through the EMC core(s), except for the following:

- Frame E drives with internal filters where the grounded input cable must not pass through EMC CORE-E-1.
- 600V drives with external filters where the grounded output cable must not pass through the EMC core(s).

**Recommended Placement of EMC Cores Relative to External Filter**

All Frame sizes



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 Online: <http://www.ab.com/support/abdrives>

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