

## EMC design

Små tips til bedre design

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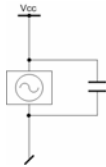
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"Lange" tilledninger til afkoblingskondensator  
→ dårlig afkobling



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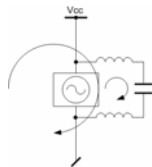
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Lange tilledninger fungerer som spoler  
→ høj impedans = uønskede  
stelstrømme



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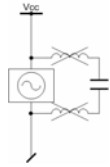
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-så væk med dem!



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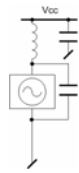
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Kombinér korte forbindelser med lavpas-filter til fælles netværk som f.eks. Vcc



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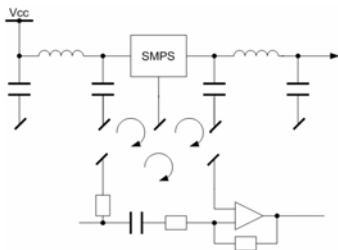
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Undgå at lokale strømme skaber spændingsfald i et globalt stelplan



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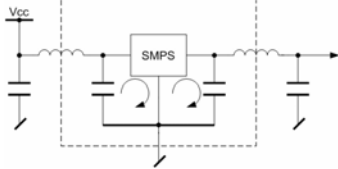
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Adskil lokale stelstrømme fra globalt stelplan. Kun ét fælles stel punkt



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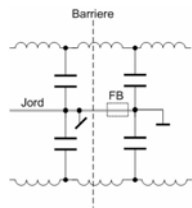
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Lavpasfilter integrerer energien fra spikes og dæmper HF ind/ud-stråling



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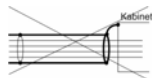
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Stelforbind aldrig med en "pigtail"



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Sådan. Brug bøjle eller HF tæt forskrning.



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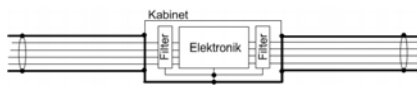
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Led de uønskede strømme forbi apparatet.  
Ikke ind i det.



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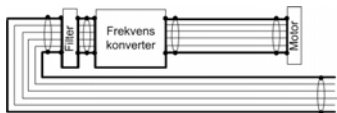
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Er dette OK?



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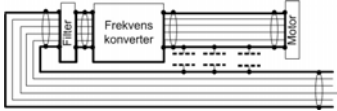
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Støj fra konverteren kobles til det  
filtrerede kabel og reducerer filterets  
virkning



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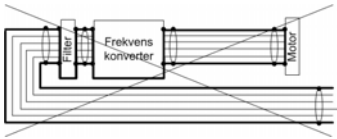
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Før aldrig filtrerede og ufiltrerede  
kabler parallelt!



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