

tyco

Electronics

EMC Series

Compact and Cost
Effective Dual Stage
RFI Power Line Filters



corcom

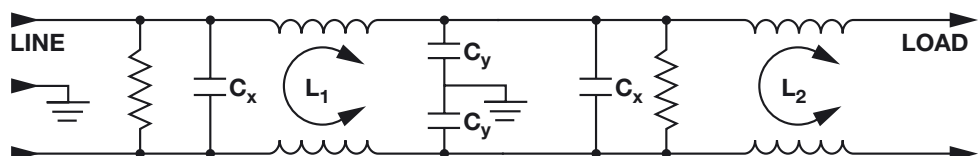
General Information / Allgemeine Informationen

- | | |
|---|--|
| ■ Reduces conducted noise to acceptable limits | ■ Reduziert leitungsgebundene Störungen auf die geforderten Grenzwerte |
| ■ Most compact dual stage filter series available from Tyco Electronics | ■ Kompakte Zweikreisfilter-Serie von Tyco Electronics |
| ■ RoHS compliant | ■ RoHS konform |
| ■ Cost effective design | ■ Kosteneffizientes Design |
| ■ Current rating up to 30 A | ■ Für Stromstärken bis zu 30 A |
| ■ High differential mode attenuation in the lower frequency range | ■ Hohe symmetrische Dämpfung im unteren Frequenzbereich |
| ■ High common mode performance | ■ Hohe asymmetrische Dämpfung |
| ■ Ideal for motor drives and switch power supplies | ■ Ideal für Umrichter und Schaltnetzteile |



Configurations / Konfigurationen

Electrical Schematic



Specifications / Elektrische Eigenschaften

Maximum leakage current, each line-to-ground

	3, 6, 10 Amp	15, 20, 30 Amp
@ 120 VAC 60 Hz:	0.21 mA	0.73 mA
@ 250 VAC 50 Hz:	0.43 mA	1.52 mA

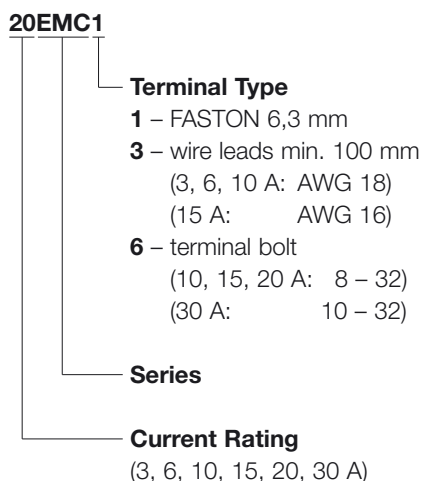
Hipot rating (one minute):

line-to-ground	2250 VDC
line-to-line	1450 VDC

Operating frequency: 50/60 Hz

Rated voltage (max): 250 VAC

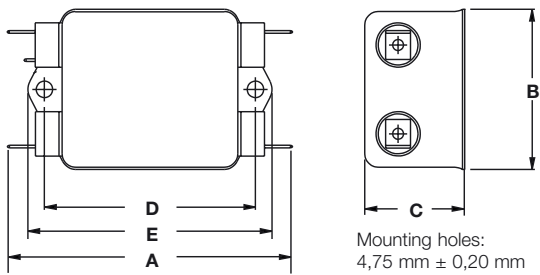
Ordering Information / Bestellinformationen



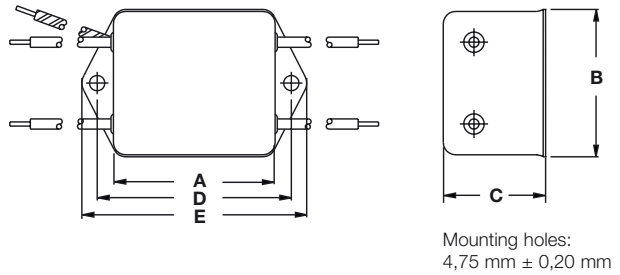
Type	Order no.	Current rating	Inductance L1	Inductance L2	Cx	Cy
3EMC1	1-6609037-1	3 A	2 x 0,79 mH	2 x 0,79 mH	2 x 0,68 µF	2 x 2,8 nF
6EMC1	1-6609037-2	6 A	2 x 0,78 mH	2 x 0,78 mH	2 x 0,68 µF	2 x 2,8 nF
10EMC1	1-6609037-3	10 A	2 x 0,74 mH	2 x 0,74 mH	2 x 1,00 µF	2 x 2,8 nF
15EMC1	1-6609037-4	15 A	2 x 0,52 mH	2 x 0,52 mH	2 x 1,50 µF	2 x 10,0 nF
20EMC1	1-6609037-5	20 A	2 x 0,42 mH	2 x 0,42 mH	2 x 2,20 µF	2 x 10,0 nF
3EMC3	1-6609037-8	3 A	2 x 0,79 mH	2 x 0,79 mH	2 x 0,68 µF	2 x 2,8 nF
6EMC3	1-6609037-9	6 A	2 x 0,78 mH	2 x 0,78 mH	2 x 0,68 µF	2 x 2,8 nF
10EMC3	2-6609037-0	10 A	2 x 0,74 mH	2 x 0,74 mH	2 x 1,00 µF	2 x 2,8 nF
15EMC3	2-6609037-2	15 A	2 x 0,52 mH	2 x 0,52 mH	2 x 1,50 µF	2 x 10,0 nF
10EMC6	2-6609037-1	10 A	2 x 0,74 mH	2 x 0,74 mH	2 x 1,00 µF	2 x 2,8 nF
15EMC6	2-6609037-3	15 A	2 x 0,52 mH	2 x 0,52 mH	2 x 1,50 µF	2 x 10,0 nF
20EMC6	1-6609037-7	20 A	2 x 0,42 mH	2 x 0,42 mH	2 x 2,20 µF	2 x 10,0 nF
30EMC6	1-6609037-6	30 A	2 x 0,44 mH	2 x 0,44 mH	2 x 2,20 µF	2 x 10,0 nF

Case Styles / Gehäuseformen

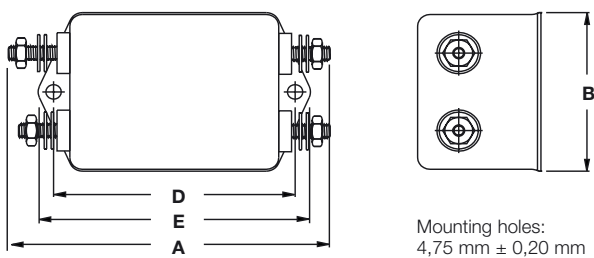
EMC1



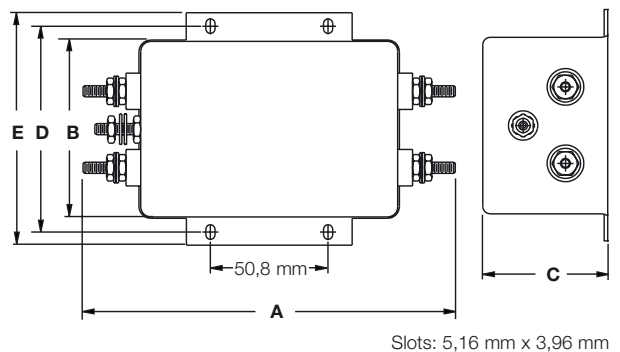
EMC3



10/15EMC6



30EMC6

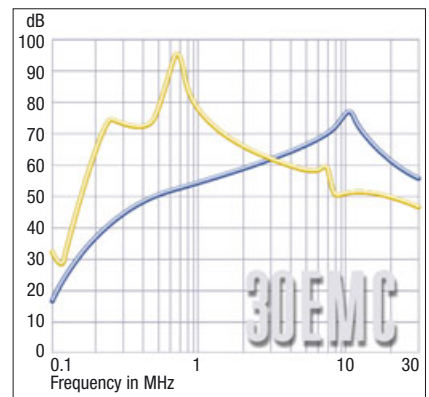
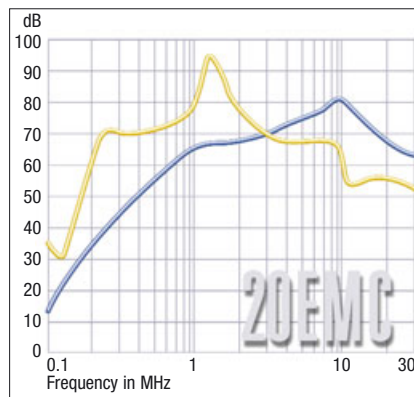
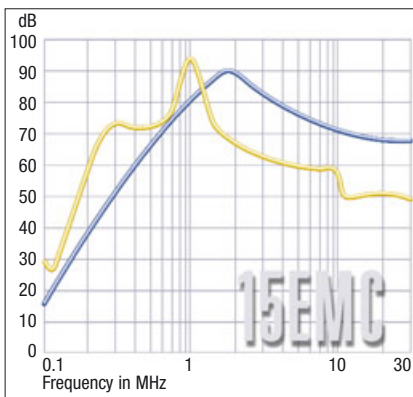
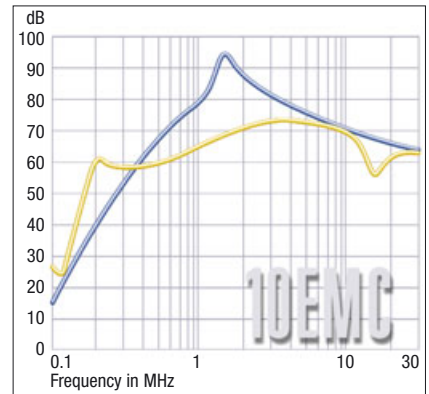
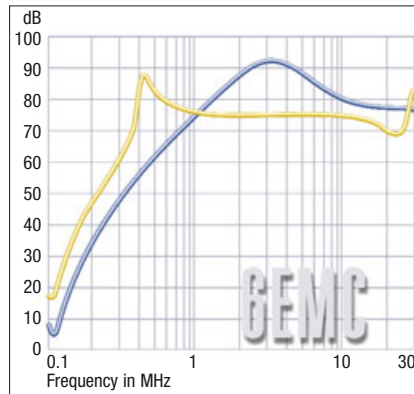
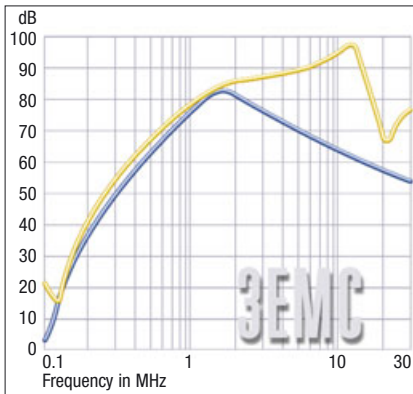


Dimensions and connections / Abmessungen und Anschlüsse

Type	A (max)	B (max)	C (max)	D	E (max)	connection
3EMC1	85,1	46,0	29,5	60,3	70,6	FASTON 6,3
6EMC1	97,8	52,6	29,5	74,6	85,1	FASTON 6,3
10EMC1	97,8	52,6	38,9	74,6	85,1	FASTON 6,3
15EMC1; 20EMC1	126,2	57,2	45,2	103,2	113,3	FASTON 6,3
3EMC3	52,6	46,0	29,5	60,3	70,6	wire leads AWG 18; 100 mm
6EMC3	65,0	52,6	29,5	74,6	85,1	wire leads AWG 18; 100 mm
10EMC3	65,0	52,6	38,9	74,6	85,1	wire leads AWG 18; 100 mm
15EMC3	93,7	57,2	45,2	103,2	113,5	wire leads AWG 16; 100 mm
10EMC6	99,9	52,6	38,9	74,6	85,1	terminal bolt 8 – 32
15EMC6; 20EMC6	129,3	57,2	45,2	103,2	113,5	terminal bolt 8 – 32
30EMC6	153,7	79,2	55,4	88,9	100,6	terminal bolt 10 – 32

All dimensions in mm

Typ. Insertion Loss / Beispiel typischer Einfügungsdämpfung



— sym.
— asym.

Measuring method: closed 50 Ω system

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