

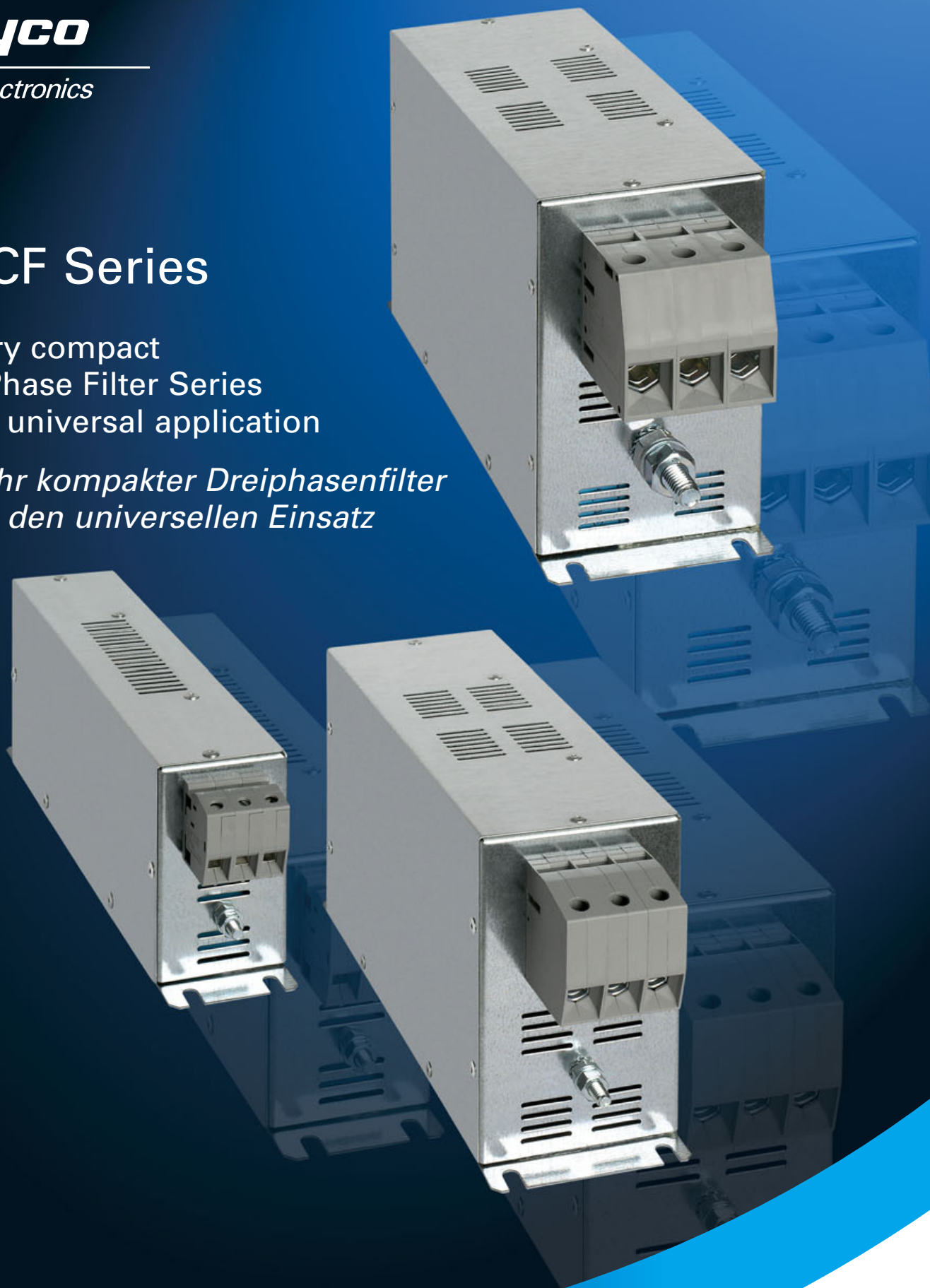
tyco

Electronics

BCF Series

Very compact
3-Phase Filter Series
for universal application

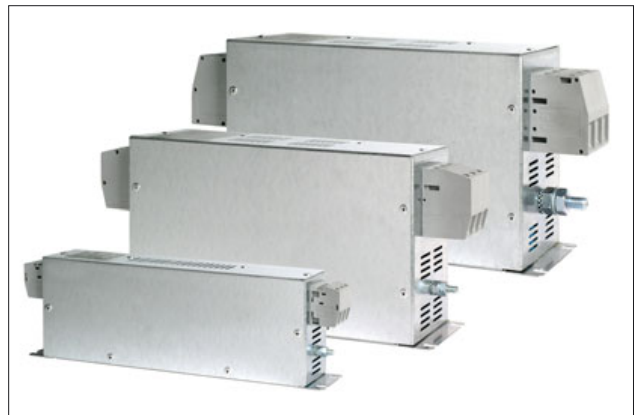
*Sehr kompakter Dreiphasenfilter
für den universellen Einsatz*



corcom

General Information / Allgemeine Informationen

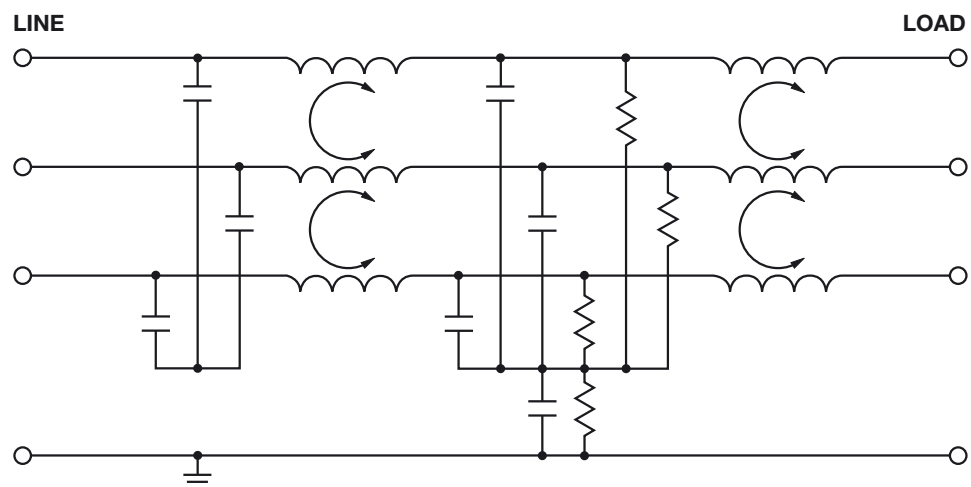
- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ■ Very compact bookform filter | ■ <i>Sehr kompakter Buchform-Filter</i> |
| ■ Low weight design | ■ <i>Geringes Gewicht</i> |
| ■ Insulated, high quality safety terminals for in- and output | ■ <i>Isolierte, hoch qualitative Sicherheitsklemmen auf der Ein- und Ausgangsseite</i> |
| ■ For current rating up to 180 A | ■ <i>Für Stromstärken bis zu 180 A</i> |
| ■ Cost effective design | ■ <i>Kostenoptimiertes Design</i> |
| ■ Ideal for all kinds of industrial 3-phase applications requiring very high attenuation in the frequency range between 100 KHz and 30 MHz | ■ <i>Hervorragend geeignet für alle industriellen 3-Phasen-Anwendungen, die eine sehr hohe Einfügungsdämpfung im Frequenzbereich zwischen 100 KHz und 30 MHz benötigen</i> |
| ■ Very high common and differential mode performance over the whole frequency range | ■ <i>Sehr hohe asymmetrische und symmetrische Dämpfung über den gesamten Frequenzbereich</i> |



RoHS
Ready



Electrical Schematic / Elektrischer Schaltplan



Electrical Specifications / Elektrische Eigenschaften

Maximum leakage current / Maximaler Ableitstrom:

@ 400 VAC 50 Hz: 30 mA under normal circumstances
(if 2 phases are interrupted, this leakage may rise to a significant higher level)

Hipot rating (one minute) / Prüfspannung (1 Minute):

line-to-ground 1850 VDC
line-to-line 1850 VDC

Operating frequency / Nennfrequenz:

DC to 60 Hz

Rated voltage (max.) / Nennspannung (max.):

480 VAC

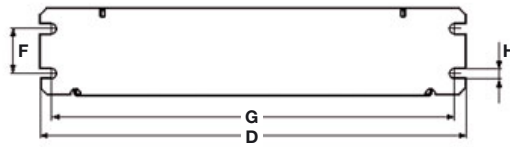
Ordering Information / Bestellinformationen



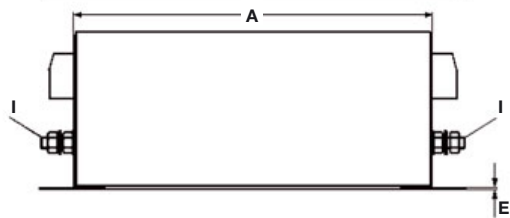
Type	Order no.	Max. Current 50 °C / 40 °C	Inductance L	C _x	C _y
7BCF10	1609989-1	7 A / 8 A	2,44 mH	3,3 µF	2,0 µF
16BCF10	1609989-2	16 A / 18 A	2,32 mH	3,3 µF	2,0 µF
30BCF10	1609989-3	30 A / 33 A	1,61 mH	5,0 µF	2,1 µF
42BCF10	1609989-4	42 A / 46 A	1,14 mH	6,7 µF	2,2 µF
55BCF10	1609989-5	55 A / 61 A	1,80 mH	6,7 µF	2,2 µF
75BCF10	1609989-6	75 A / 83 A	1,08 mH	6,7 µF	2,2 µF
100BCF10	1609989-7	100 A / 110 A	0,82 mH	6,7 µF	2,2 µF
130BCF10	1609989-8	130 A / 143 A	0,56 mH	6,7 µF	2,2 µF
180BCF10	1609989-9	180 A / 198 A	0,72 mH	6,7 µF	2,2 µF

Mechanical Data / Mechanische Eigenschaften

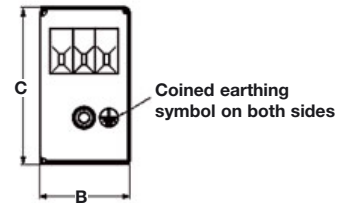
Bottom view



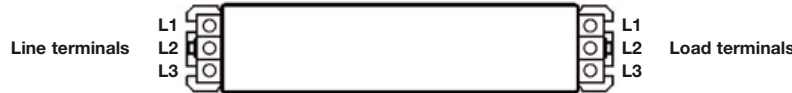
Side view



Front view



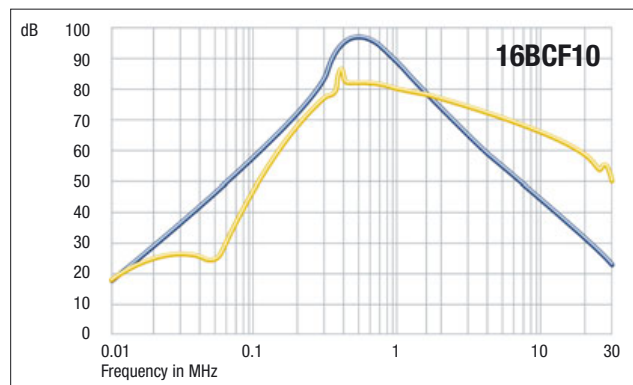
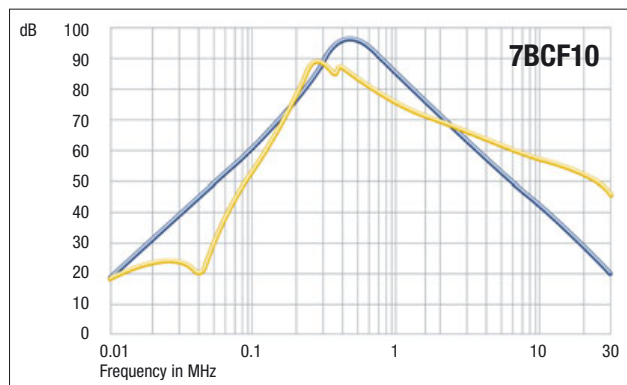
Top view



Type	A	B	C	D	E	F	G	H	GND (I)	Type of connection	Weight (kg)	Packing unit
7BCF10	160	40	70	190	0,8	20	180	4,5	M5	Terminal block 4 mm ²	0,7	1
16BCF10	220	45	70	250	0,8	25	235	5,4	M5	Terminal block 4 mm ²	1,1	1
30BCF10	240	50	85	270	0,8	30	255	5,4	M5	Terminal block 10 mm ²	1,5	1
42BCF10	280	50	85	310	0,8	30	295	5,4	M6	Terminal block 10 mm ²	1,7	1
55BCF10	220	85	90	250	1,0	60	235	5,4	M6	Terminal block 16 mm ²	2,4	1
75BCF10	240	80	135	270	1,0	60	255	6,5	M6	Terminal block 25 mm ²	3,2	1
100BCF10	240	90	150	270	1,0	65	255	6,5	M10	Terminal block 50 mm ²	4,2	1
130BCF10	240	90	150	270	1,0	65	255	6,5	M10	Terminal block 50 mm ²	4,4	1
180BCF10	350	120	170	380	1,0	102	365	6,5	M10	Terminal block 95 mm ²	6,2	1

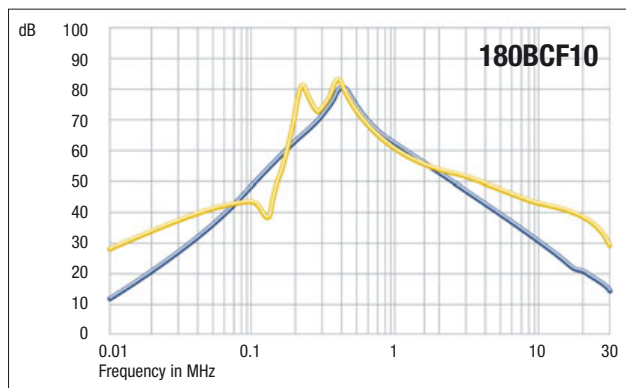
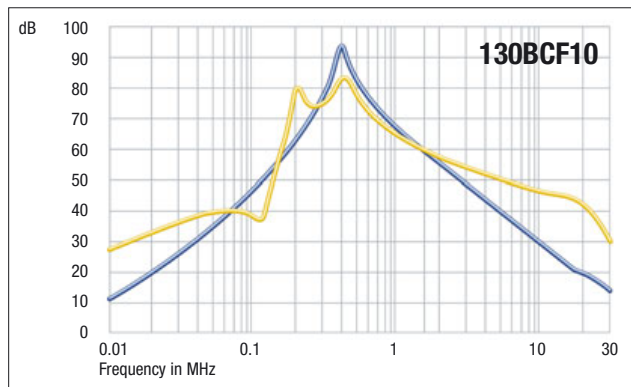
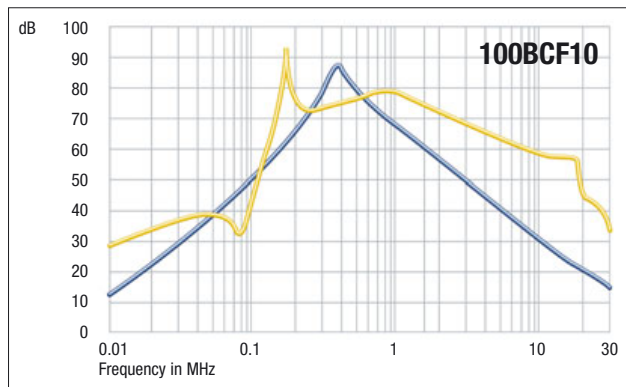
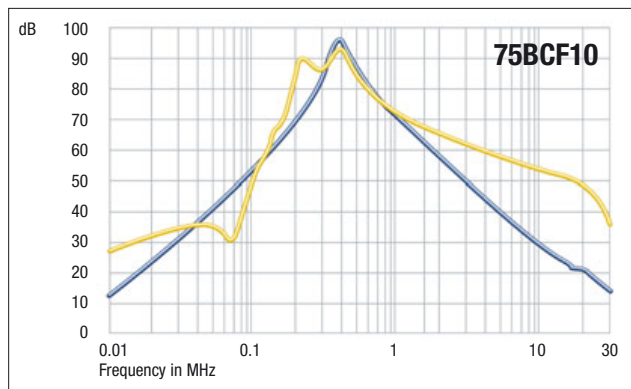
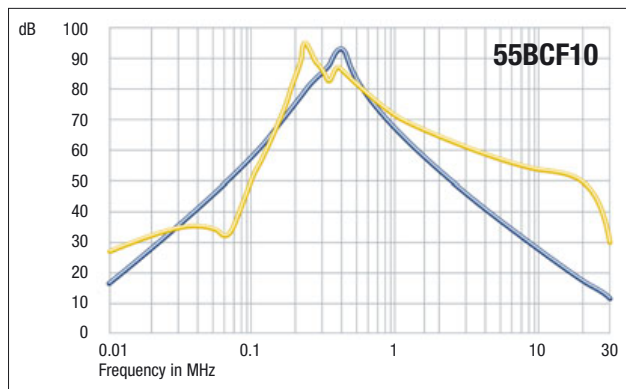
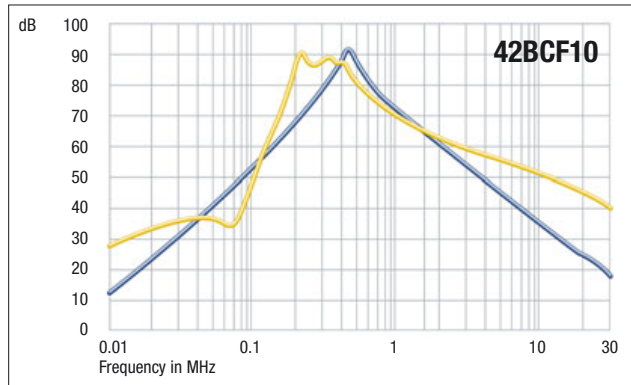
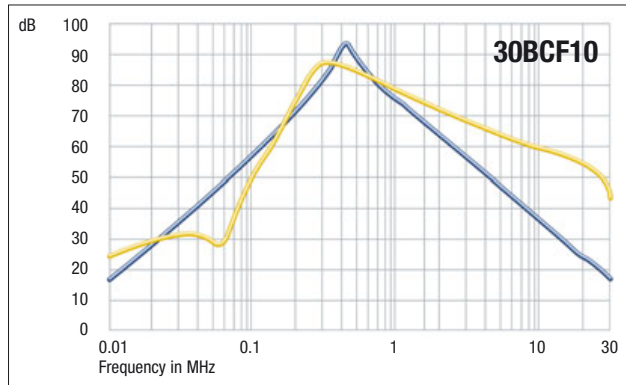
All dimensions in mm

Typical Insertion Loss / Beispiel typischer Einfügungsdämpfung



to be continued on next page/Fortsetzung auf folgender Seite

Typical Insertion Loss / Beispiel typischer Einfügungsdämpfung



— sym.
— asym.

Measuring method: closed 50 Ω system

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Germany – Ottobrunn**Tyco Electronics Raychem GmbH**

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