

Harmonic circuit filter reactor
FKD



General Data

Rated input voltage 3 x 400 Vac
For reactive power 25 - 50 kVAr
Detuning factor 7 - 14 %
Insulation class F
Maximum ambient temperature 40 °C
Degree of protection IP 00

Advantages

No overloading of the capacitors
Improvement of the impedance behaviour
Low inductance tolerance
Very good corrosion protection and low noise thanks to BLOCKIMPEX vacuum impregnation
Linear inductance development to far above the rated current
Thermal design for continuous duty in the event of mains operation and harmonics

Applications

Filter circuit reactor for choking idle current compensation installations.

Standards

Filter circuit reactor in accordance with EN 61558 Part 1, 61558 Part 20, UL 506, CSA 22.2

Certifications

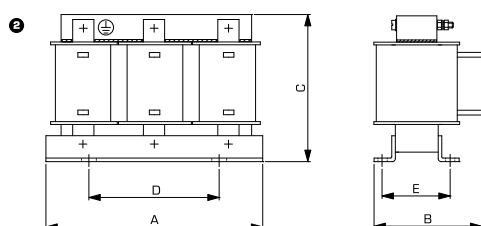
UL 506, CSA 22.2



Harmonic circuit filter reactor FKD

Type	FKD 25/7	FKD 25/7/T	FKD 25/14	FKD 25/14/T	FKD 50/7	FKD 50/7/T
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
for reactive power	25 kVAr	25 kVAr	25 kVAr	25 kVAr	50 kVAr	50 kVAr
Current per phase at 50 Hz (I)	38.2 A	38.2 A	38.2 A	38.2 A	79.4 A	79.4 A
Inductivity linear to (at ≥95 % I; Im)	55 A	55 A	55 A	55 A	95 A	95 A
Inductivity per phase (L)	1.530 mH	1.530 mH	3.320 mH	3.320 mH	0.767 mH	0.767 mH
Tolerance	±5 %	±5 %	±5 %	±5 %	±5 %	±5 %
Filtering factor	p = 0.07 (7 %)	p = 0.07 (7 %)	p = 0.14 (14 %)	p = 0.14 (14 %)	p = 0.07 (7 %)	p = 0.07 (7 %)
Power loss	108.0 W	108.0 W	150.0 W	150.0 W	168.0 W	168.0 W
Temperature control	no	yes	no	yes	no	yes
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Safety and protection						
Type	open type	open type	open type	open type	open type	open type
Class of Insulation System	F	F	F	F	F	F
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz
Order numbers						
Order Number	FKD 25/7	FKD 25/7/T	FKD 25/14	FKD 25/14/T	FKD 50/7	FKD 50/7/T
Mechanical data						
Terminal and mounting						
Fixing method	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets
Fixing screws	M8	M8	M8	M8	M8	M8
Connections phase/N	Flat copper	Flat copper	Flat copper	Flat copper	Flat copper	Flat copper
Connections PE	Bolt, M8	Bolt, M8	Bolt, M8	Bolt, M8	Bolt, M8	Bolt, M8
Measures and weights						
Weight	20.00 kg	20.00 kg	25.00 kg	25.00 kg	34.00 kg	34.00 kg
Dimension picture (in mm)	②	②	②	②	②	②
A	220	220	264	264	300	300
B	155	155	155	155	200	200
C	210	210	230	230	270	270
D	176	176	215	215	255	255
E	94	94	114	114	145	145

Dimension pictures



LINE-SIDE SUPPRESSION/ HARMONIC CIRCUIT FILTER REACTORS



Harmonic circuit filter reactor **FKD**

Type	FKD 50/14	FKD 50/14/T
Electrical data		
Operating data		
Rated voltage	3 x 400 Vac	3 x 400 Vac
Rated frequency	50 Hz	50 Hz
for reactive power	50 kVAr	50 kVAr
Current per phase at 50 Hz (I)	76.5 A	76.5 A
Inductivity linear to (at $\geq 95\%$ L; Im)	95 A	95 A
Inductivity per phase (L)	1.660 mH	0.767 mH
Tolerance	$\pm 5\%$	$\pm 5\%$
Filtering factor	$p = 0.14$ (14 %)	$p = 0.14$ (14 %)
Power loss	201.0 W	201.0 W
Temperature control	no	yes
Approvals		
Approvals	cURus	cURus
Environment		
Ambient temperature max.	40 °C	40 °C
Safety and protection		
Type	open type	open type
Class of Insulation System	F	F
Protection index	IP 00	IP 00
Safety class (prepared)	I	I
Test voltage	2500 Vac, 50 Hz	2500 Vac, 50 Hz
Order numbers		
Order Number	FKD 50/14	FKD 50/14/T
Mechanical data		
Terminal and mounting		
Fixing method	Mounting brackets	Mounting brackets
Fixing screws	M8	M8
Connections phase/N	Flat copper	Flat copper
Connections PE	Bolt, M8	Bolt, M8
Measures and weights		
Weight	45.00 kg	45.00 kg
Dimension picture (in mm)	a	a
A	300	300
B	215	215
C	270	270
D	255	255
E	160	160

Dimension pictures

