LV Iron Core Reactors

AL Series

ALF I ALS

Switching Life to Infinity

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ALF Series Harmonic Filter Reactors

ALF Series Harmonic Filter Reactors are used in facilities with high levels of harmonic distortion to protect capacitors used for compensating reactive power. They are the main components of De-Tuned Filtered compensation systems and also take on the role of protecting the system, preventing faults from occurring.

ALF Series Harmonic Filter Reactors are available for 3-phase and 6-phase systems. They also come with options for copper-wound and aluminum-wound designs.

Application Areas

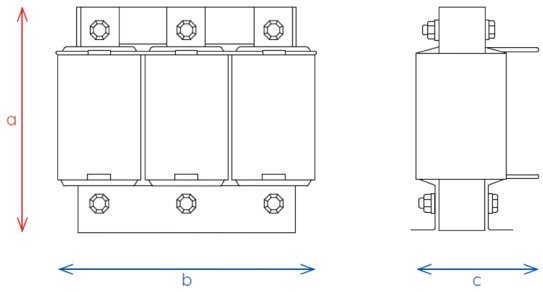
- Automatic capacitor bank systems with harmonic filter
- Fixed capacitor banks with harmonic filter
- All capacitor banks with tuned and de-tuned harmonic filter systems for PFC applications

Advantages

- Manufacturing according to customer's request
- Aluminium and copper winding options
- Easy installation on different panel types
- High quality and long service life
- Low heat, low loss, low decibel operation

Technical Specifications

• Voltage	: up to 1000 Vac
• Frequency	: 50 / 60 Hz
• Filter Frequency	: 132 ... 235 Hz
• Protection	: IP00
• Output Power	: up to 150 kVAr
• Inductance Tolerance	: ±3%
• Temperature Class	: F Class
• Loss Factor	: < %1 x Qn
• Standards	: EN 61558-1 EN 60076-6
Temperature Class	: 40 °C
* Winding Material	: Copper / Aluminium
*Over Voltage	: 1.1 x Un



Product Code	Network Voltage	Net Power 50 Hz	Weight (kg)	Dimensions (a x b x c)
Standard Type				
ALF.400.7,66.12	400 Volt	5 kVAr	8	182 x 140 x 144
ALF.400.6,13.15	400 Volt	6,25 kVAr	9	176 x 144 x 144
ALF.400.5,11.18	400 Volt	7,5 kVAr	10	210 x 147 x 169
ALF.400.3,83.24	400 Volt	10 kVAr	11	214 x 151 x 169
ALF.400.3,07.30	400 Volt	12,5 kVAr	12	218 x 155 x 170
ALF.400.2,55.36	400 Volt	15 kVAr	12	218 x 155 x 170
ALF.400.1,92.48	400 Volt	20 kVAr	21	264 x 161 x 219
ALF.400.1,53.60	400 Volt	25 kVAr	21	266 x 163 x 220
ALF.400.1,28.72	400 Volt	30 kVAr	24	268 x 175 x 220
ALF.400.0,96.96	400 Volt	40 kVAr	25	270 x 193 x 220
ALF.400.0,77.120	400 Volt	50 kVAr	31	334 x 186 x 272
ALF.400.0,64.144	400 Volt	60 kVAr	32	336 x 188 x 273
ALF.400.0,51.180	400 Volt	75 kVAr	37	340 x 202 x 274
Duty Type				
ALF.400.7,66.13	400 Volt	5 kVAr	9	176 x 144 x 144
ALF.400.6,13.17	400 Volt	6,25 kVAr	11	203 x 145 x 169
ALF.400.5,11.20	400 Volt	7,5 kVAr	11	210 x 147 x 169
ALF.400.3,83.26	400 Volt	10 kVAr	12	214 x 156 x 170
ALF.400.3,07.33	400 Volt	12,5 kVAr	12	218 x 160 x 170
ALF.400.2,55.40	400 Volt	15 kVAr	14	222 x 169 x 170
ALF.400.1,92.52	400 Volt	20 kVAr	21	264 x 161 x 220
ALF.400.1,53.66	400 Volt	25 kVAr	23	266 x 173 x 220
ALF.400.1,28.79	400 Volt	30 kVAr	24	268 x 176 x 220
ALF.400.0,96.105	400 Volt	40 kVAr	31	332 x 184 x 272
ALF.400.0,77.131	400 Volt	50 kVAr	32	334 x 186 x 273
ALF.400.0,64.144	400 Volt	60 kVAr	37	338 x 200 x 273
ALF.400.0,51.196	400 Volt	75 kVAr	42	342 x 214 x 274
Heavy Duty Type				
ALF.400.7,66.16	400 Volt	5 kVAr	10	206 x 138 x 169
ALF.400.6,13.20	400 Volt	6,25 kVAr	11	210 x 147 x 170
ALF.400.5,11.24	400 Volt	7,5 kVAr	12	210 x 157 x 170
ALF.400.3,83.32	400 Volt	10 kVAr	13	214 x 166 x 170
ALF.400.3,07.40	400 Volt	12,5 kVAr	14	218 x 170 x 171
ALF.400.2,55.48	400 Volt	15 kVAr	15	222 x 179 x 171
ALF.400.1,92.64	400 Volt	20 kVAr	24	264 x 172 x 221
ALF.400.1,53.80	400 Volt	25 kVAr	24	294 x 181 x 224
ALF.400.1,28.96	400 Volt	30 kVAr	26	284 x 206 x 223
ALF.400.0,96.128	400 Volt	40 kVAr	35	334 x 192 x 273
ALF.400.0,77.160	400 Volt	50 kVAr	41	336 x 208 x 274
ALF.400.0,64.192	400 Volt	60 kVAr	46	340 x 222 x 274
ALF.400.0,51.240	400 Volt	75 kVAr	47	344 x 226 x 276

LV Iron Core Reactors
ALS Series Shunt Reactors

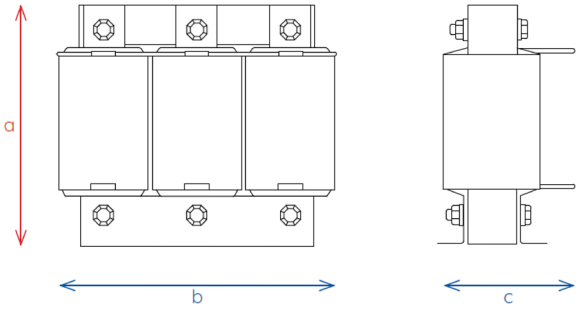
ALS Series Shunt Reactors are used to compensate for the capacitive effect caused by long and lightly loaded transmission and distribution lines, as well as capacitive loads in your facility, thereby increasing the active power capacity of the system. They eliminate potential penalty situations and provide the most effective solution for facilities where the capacitive reactive/active power ratio is high.

Application Areas

- Facilities fed by long transmission lines and underground cables,
- Organized Industrial Zones,
- Metro, tram etc. facilities where energy transmission is made with underground cables
- Inductive load test systems

Advantages

- Manufacturing according to customer's request
- Aluminium and copper winding options
- Easy installation on different panel types
- High quality and long service life
- Low heat, low loss, low decibel operation



Technical Specifications

- Voltage : up to 1000 Vac
- Frequency : 50 / 60 Hz
- Protection : IP00
- Output Power : up to 50 kVAr
- Inductance Tolerance : ±5%
- Temperature Class : F Class
- Loss Factor : < %1 x Qn
- Standards : EN 61558-1, EN 60076-6

Product Code	Network Voltage	Net Power 50 Hz	Weight (kg)	Dimensions (a x b x c)
ALS.3.400.2,5	400 Volt	2,5 kVAr	19	288 x 176 x 220
ALS.3.400.5	400 Volt	5 kVAr	26	290 x 198 x 220
ALS.3.400.10	400 Volt	10 kVAr	48	356 x 223 x 271
ALS.3.400.12,5	400 Volt	12,5 kVAr	49	356 x 223 x 272
ALS.3.400.15	400 Volt	15 kVAr	54	362 x 238 x 272
ALS.3.400.20	400 Volt	20 kVAr	70	400 x 202 x 373
ALS.3.400.25	400 Volt	25 kVAr	88	404 x 231 x 373
ALS.3.400.50	400 Volt	50 kVAr	142	453 x 260 x 425

aktif ELEKTROTEKNİK

Headquarters

Bayraktar Bul. Şehit Sok. No: 5
34775 Ümraniye, İstanbul, TR
Phone : +90 (216) 314 93 20
Fax : +90 (216) 314 93 60
www.aktif.net - info@aktif.net

Factory

Akşemsettin Mah. Çatalca Sk. No: 113 06930
Sincan, Ankara, TR
Phone : +90 (312) 269 46 02
Fax : +90 (312) 269 45 01
www.aktif.net - info@aktif.net

Germany Office

Bahnhofstrasse 82-86
35390 Giessen, Germany
Phone : +49 176 60940534
www.aktif.net
info.de@aktif.net

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