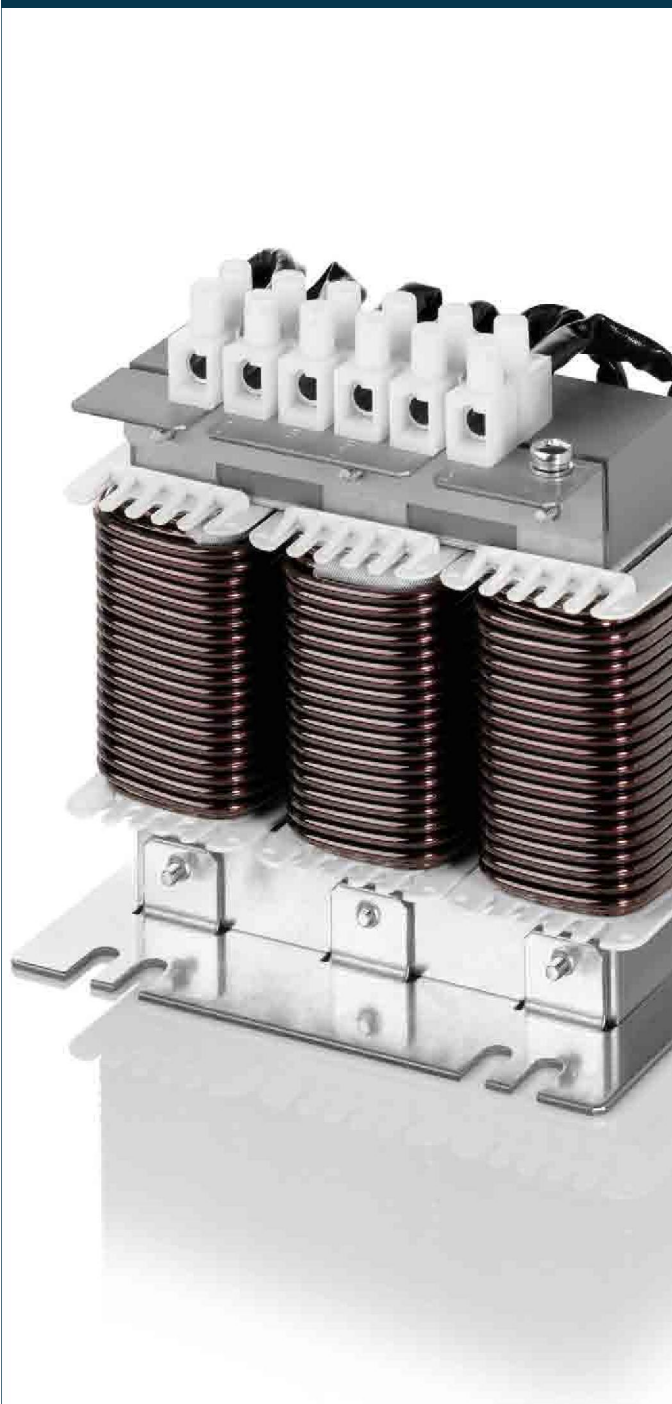


Line Reactor, three phase, 2 % (uK)  
**ALR3**



**General Data**

Rated voltage 3 x 400 Vac
Short circuit voltage (uK) 2 %
Rated current 3 x 2 - 3 x 63 A
Inductivity 0.650 - 6.100 mH
Insulation class (IEC) F
Ambient temperature -10° C to +40° C
Protection index IP 00
Multifunctional mounting brackets

3.1

**Advantages**

Application as Line reactor, Commutation Reactor or PFC-reactor
Guarantee of short circuit voltage of 2% to the grid
Attenuation of harmonics
Limitation of starting current
Extending the lifetime of connected units
Minimum ripple factor
Briding voltage dips
Very good corrosion protection and low noise thanks to BLOCKIMPEX vacuum impregnation
Limitation of peak current
Multifunctional fixing rail

3.2

**Applications**

Line reactor to minimize mains pollution, to reduce the reactive-power components and charging currents in the DC link capacitor and to improve the cos(phi).

3.3

**Standards** 

Line- and commutation reactor to  
DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

**Certifications** 

UL 506, CSA 22.2

3.4

3.5



## Line Reactor, three phase, 2 % (uK) **ALR3**

		ALR3 40-2/2	ALR3 40-2/4	ALR3 40-2/6	ALR3 40-2/8	ALR3 40-2/10	ALR3 40-2/16	
Electrical data	Type							
	<u>Operating data</u>							
	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 voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	
	Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	
	Short circuit voltage uK	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	
	Voltage drop	4.6 Vac	4.6 Vac	4.6 Vac	4.6 Vac	4.6 Vac	4.6 Vac	
	Rated current	2 A	4 A	6 A	8 A	10 A	16 A	
	Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	
	Inductivity	6.100 mH	3.050 mH	2.030 mH	1.530 mH	1.220 mH	0.760 mH	
	Inductivity deviation	±10%	±10%	±10%	±10%	±10%	±10%	
	<u>Approvals</u>							
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus	
	<u>Environment</u>							
Ambient temperature	-10° C to +40° C	-10° C to +40° C	-10° C to +40° C	-10° C to +40° C	-10° C to +40° C	-10° C to +40° C		
Cooling method	AN	AN	AN	AN	AN	AN		
<u>Safety and protection</u>								
Type	open type	open type	open type	open type	open type	open type		
Class of Insulation System	IEC=B, UL=class 130	IEC=B, UL=class 130	IEC=B, UL=class 130	IEC=B, UL=class 130	IEC=B, UL=class 130	IEC=F, UL=class 155		
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	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac		
<u>Order numbers</u>								
<b>Order Number</b>	<b>ALR3 40-2/2</b>	<b>ALR3 40-2/4</b>	<b>ALR3 40-2/6</b>	<b>ALR3 40-2/8</b>	<b>ALR3 40-2/10</b>	<b>ALR3 40-2/16</b>		



Line Reactor, three phase, 2 % (uK)  
**ALR3**

		ALR3 40-2/20	ALR3 40-2/25	ALR3 40-2/30	ALR3 40-2/35	ALR3 40-2/40	ALR3 40-2/45	
Electrical data	Type							
	<u>Operating data</u>							
	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 voltage (IEC)	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	3 x 690 Vac	
	Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	3 x 600 Vac	
	Short circuit voltage uK	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	
	Voltage drop	4.6 Vac	4.6 Vac	4.6 Vac	4.6 Vac	4.6 Vac	4.6 Vac	
	Rated current	20 A	25 A	30 A	35 A	40 A	45 A	
	Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	
	Inductivity	0.610 mH	0.490 mH	0.410 mH	0.350 mH	0.310 mH	0.270 mH	
	Inductivity deviation	±10%	±10%	±10%	±10%	±10%	±10%	
	<u>Approvals</u>							
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus	
<u>Environment</u>								
Ambient temperature	-10° C to +40° C	-10° C to +40° C	-10° C to +40° C	-10° C to +40° C	-10° C to +40° C	-10° C to +40° C		
Cooling method	AN	AN	AN	AN	AN	AN		
<u>Safety and protection</u>								
Type	open type	open type	open type	open type	open type	open type		
Class of Insulation System	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=F, UL=class 155	IEC=H, UL=class 180		
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	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac	4000 Vac		
<u>Order numbers</u>								
Order Number	<b>ALR3 40-2/20</b>	<b>ALR3 40-2/25</b>	<b>ALR3 40-2/30</b>	<b>ALR3 40-2/35</b>	<b>ALR3 40-2/40</b>	<b>ALR3 40-2/45</b>		

3.1

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# LINE-SIDE SUPPRESSION/ LINE REACTORS



## Line Reactor, three phase, 2 % (uK) **ALR3**

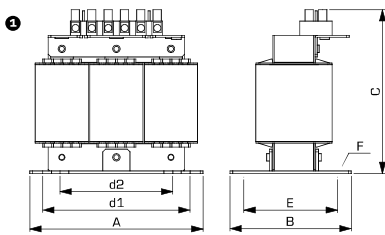
		ALR3 40-2/50	ALR3 40-2/63	
Electrical data	Type	ALR3 40-2/50	ALR3 40-2/63	
	<u>Operating data</u>			
	Rated voltage	3 x 400 Vac	3 x 400 Vac	
	Rated voltage (IEC)	3 x 690 Vac	3 x 690 Vac	
	Rated voltage (UL)	3 x 600 Vac	3 x 600 Vac	
	Short circuit voltage uK	2.0 %	2.0 %	
	Voltage drop	4.6 Vac	4.6 Vac	
	Rated current	50 A	63 A	
	Rated frequency	50 - 60 Hz	50 - 60 Hz	
	Inductivity	0.240 mH	0.190 mH	
	Inductivity deviation	±10%	±10%	
	<u>Approvals</u>			
	Approvals	cURus	cURus	
	<u>Environment</u>			
Ambient temperature	-10° C to +40° C	-10° C to +40° C		
Cooling method	AN	AN		
<u>Safety and protection</u>				
Type	open type	open type		
Class of Insulation System	IEC=H, UL=class 180	IEC=H, UL=class 180		
Protection index	IP 00	IP 00		
Safety class (prepared)	I	I		
Test voltage	4000 Vac	4000 Vac		
<u>Order numbers</u>				
<b>Order Number</b>	<b>ALR3 40-2/50</b>	<b>ALR3 40-2/63</b>		



Line Reactor, three phase, 2 % (uK)  
**ALR3**

Mechanical data	Type	Connections phase/N	Connections PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	①	A	B	C	D1	D2	E	F
									ALR3 40-2/2	Europe terminal, 2.5 mm <sup>2</sup>	for M5	Mounting brackets	M6	0.53 kg	①
ALR3 40-2/4	Europe terminal, 2.5 mm <sup>2</sup>	for M5	Mounting brackets	M6	0.53 kg	②	78	54	87	63.5	38	38	6.5		
ALR3 40-2/6	Europe terminal, 2.5 mm <sup>2</sup>	for M5	Mounting brackets	M6	1.10 kg	②	78	64	87	63.5	38	50.8	6.5		
ALR3 40-2/8	Europe terminal, 6 mm <sup>2</sup>	for M5	Mounting brackets	M6	1.30 kg	①	96	63.5	107	63.5	38	38	6.5		
ALR3 40-2/10	Europe terminal, 6 mm <sup>2</sup>	for M5	Mounting brackets	M6	1.50 kg	①	96	76	107	63.5	38	50.8	6.5		
ALR3 40-2/16	Europe terminal, 6 mm <sup>2</sup>	for M5	Mounting brackets	M6	2.00 kg	②	127	76	125	102	76.2	38	6.5		
ALR3 40-2/20	Europe terminal, 6 mm <sup>2</sup>	for M5	Mounting brackets	M6	2.00 kg	①	127	76	125	102	76.2	38	6.5		
ALR3 40-2/25	Europe terminal, 6 mm <sup>2</sup>	for M5	Mounting brackets	M6	2.90 kg	①	127	89	125	102	76.2	50.8	6.5		
ALR3 40-2/30	Europe terminal, 10 mm <sup>2</sup>	for M5	Mounting brackets	M6	2.90 kg	②	127	89	132	102	76.2	50.8	6.5		
ALR3 40-2/35	Europe terminal, 10 mm <sup>2</sup>	for M5	Mounting brackets	M6	2.90 kg	①	127	89	132	102	76.2	50.8	6.5		
ALR3 40-2/40	Europe terminal, 10 mm <sup>2</sup>	for M5	Mounting brackets	M6	3.80 kg	②	152.5	101.5	163	114	88.9	76.2	6.5		
ALR3 40-2/45	Europe terminal, 10 mm <sup>2</sup>	for M5	Mounting brackets	M6	3.80 kg	①	152.5	101.5	163	114	88.9	76.2	6.5		
ALR3 40-2/50	Europe terminal, 16 mm <sup>2</sup>	for M5	Mounting brackets	M6	5.80 kg	②	152.5	101.5	163	114	88.9	88.9	6.5		
ALR3 40-2/63	Europe terminal, 16 mm <sup>2</sup>	for M5	Mounting brackets	M6	6.80 kg	②	178	101.5	188	127	102	88.9	6.5		

Dimension pictures



3.1

3.2

3.3

3.4

3.5