

WE ARE YOUR  
PARTNER FOR  
**LINE  
REACTORS**

Performance-optimized line reactors for improved power quality and the protection of sensitive loads.

# OVERVIEW

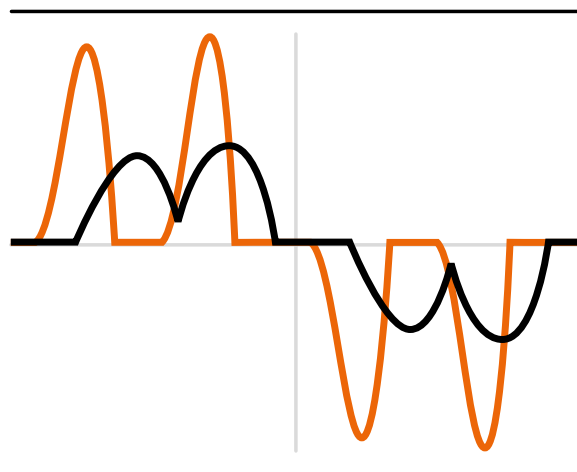
## LINE REACTORS

Discover our entire standard range here



Type	Rated input voltage	Short-circuit voltage (uK)	Rated current (A)																			
LR3-AE	3 x 480 V	3 % or 5 %																63		80		100
LR3	3 x 480 V	3 %	2	4	6	8	10	16	20	25	30	35	40	45	50	63	70	80	90	100		
LR3	3 x 480 V	5 %	2				10	16	20	25											100	
NKE	230 / 400 V	4 %	2	4	6		10	16	20	25			40		50	63						

Type	Rated input voltage	Short-circuit voltage (uK)	Rated current (A)																		
LR3-AE	3 x 480 V	3 % or 5 %		125	160		200	250		315	400	500	630	710		900					
LR3	3 x 480 V	3 %	115	125	160	180	200	250	300		400	500	630	710	800		1000	1200	1400	1600	
LR3	3 x 480 V	5 %	115	125	160	180	200									1000	1200	1400	1600		
NKE	230 / 400 V	4 %																			



— with three-phase line reactor  
 — without three-phase line reactor

# LINE REACTOR, THREE-PHASE LR3-AE



## Impedance Levels 3%

Product Name Order No.	Rated voltage Vac	Rated current A	Inductivity mH	Width/Height/Depth in mm   inch	Rating HP   kW
LR3-AE063-483-0	3 x 480	3 x 63	0,35	300/205/142   11.8/8.1/5.6	40   30
LR3-AE080-483-0	3 x 480	3 x 80	0,27	300/142/210   11.8/5.6/8.2	50-60   45
LR3-AE100-483-0	3 x 480	3 x 100	0,22	300/198/151   11.8/7.8/5.9	75   55
LR3-AE125-483-0	3 x 480	3 x 125	0,18	400/187/180   15.7/7.3/7.1	100   75
LR3-AE160-483-0	3 x 480	3 x 160	0,14	420/187/196   16.5/7.3/7.7	125   93
LR3-AE200-483-0	3 x 480	3 x 200	0,11	480/200/205   18.9/7.9/8.1	125-150   112
LR3-AE250-483-0	3 x 480	3 x 250	0,09	480/198/205   18.9/7.8/8.1	200   150
LR3-AE315-483-0	3 x 480	3 x 315	0,07	480/293/218   18.9/11.5/8.6	250   187
LR3-AE400-483-0	3 x 480	3 x 400	0,06	480/263/230   18.9/10.4/9.1	350   262
LR3-AE500-483-0	3 x 480	3 x 500	0,04	509/261/266   20.0/10.3/10.5	400   300
LR3-AE630-483-0	3 x 480	3 x 630	0,04	500/252/263   19.7/9.9/10.3	450   340
LR3-AE710-483-0	3 x 480	3 x 710	0,03	586/294/264   23.1/11.6/10.4	500   375
LR3-AE900-483-0	3 x 480	3 x 900	0,02	586/324/278   23.1/12.8/10.9	750   560

## Impedance Levels 5%

Product Name Order No.	Rated voltage Vac	Rated current A	Inductivity mH	Width/Height/Depth in mm   inch	Rating HP   kW
LR3-AE063-485-0	3 x 480	3 x 63	0,58	300/205/150   11.8/8.1/5.9	40   30
LR3-AE080-485-0	3 x 480	3 x 80	0,45	300/209/160   11.8/8.2/6.3	50-60   45
LR3-AE100-485-0	3 x 480	3 x 100	0,36	300/198/185   11.8/7.8/7.3	75   55
LR3-AE125-485-0	3 x 480	3 x 125	0,29	400/187/210   15.7/7.3/8.2	100   75
LR3-AE160-485-0	3 x 480	3 x 160	0,23	420/187/225   16.5/7.3/8.9	125   93
LR3-AE200-485-0	3 x 480	3 x 200	0,18	480/200/230   18.9/8.1/5.9	125-150   112
LR3-AE250-485-0	3 x 480	3 x 250	0,15	480/201/246   18.9/7.9/9.7	200   150
LR3-AE315-485-0	3 x 480	3 x 315	0,12	480/261/246   18.9/10.3/9.7	250   187
LR3-AE400-485-0	3 x 480	3 x 400	0,09	480/261/265   18.9/10.3/10.4	350   262
LR3-AE500-485-0	3 x 480	3 x 500	0,07	510/261/306   20.1/10.3/12.0	400   300
LR3-AE630-485-0	3 x 480	3 x 630	0,06	500/251/303   19.7/9.9/11.9	450   340
LR3-AE710-485-0	3 x 480	3 x 710	0,05	586/294/304   23.1/11.6/12.0	500   375
LR3-AE900-485-0	3 x 480	3 x 900	0,04	586/323/328   23.1/12.7/12.9	750   560

### BENEFITS

- › Use as line reactor, commutating reactor or PFC reactor
- › Available in low and high impedance level versions
- › Reduces harmonics and helps to meet requirements according to IEEE 519
- › Increases the service life of consumers
- › Reduces current ripple
- › Reduces commutation notches
- › Limits inrush current during power-up
- › Very good corrosion protection and low noise due to vacuum impregnation
- › UL listed approval

### TECHNICAL DATA

- › Rated voltage 3 x 480 Vac
- › Impedance levels 3 %, 5 %
- › Rated current 3 x 63 - 3 x 900 A
- › Inductance 0.02 - 0.58 mH
- › Insulation class H
- › Ambient temperature -22-104°F
- › Degree of protection open type

### APPLICATIONS

- › Our line reactors provide a robust filtering solution for 6-pulse rectifiers, variable frequency drives (VFD) or power conversion systems. These reactors help to reduce harmonic distortion, mitigate line voltage notching and protect sensitive equipment from voltage transients.

Line reactor will improve power quality and help to fulfill requirements according to IEEE 519.

# LINE REACTOR, THREE-PHASE

## LR3



### BENEFITS

- › Use as line reactor, commutating reactor or PFC reactor
- › Available in low and high impedance level versions
- › Reduces harmonics and helps to meet requirements according to IEEE 519
- › Increases the service life of consumers
- › Reduces current ripple
- › Reduces commutation notches
- › Limits inrush current during power-up
- › Very good corrosion protection and low noise due to vacuum impregnation
- › UL listed approval

### TECHNICAL DATA

- › Rated voltage 3 x 480 Vac
- › Impedance levels 3 %, 5 %
- › Rated current 3 x 2 - 3 x 1600 A
- › Inductance 0.014 - 18.500 mH
- › Insulation class B, F or H
- › Ambient temperature 14-104°F
- › Degree of protection open type
- › Rated Frequency 50/60Hz

### APPLICATIONS

- › Our line reactors provide a robust filtering solution for 6-pulse rectifiers, variable frequency drives (VFD) or power conversion systems. These reactors help to reduce harmonic distortion, mitigate line voltage notching and protect sensitive equipment from voltage transients.

Line reactor will improve power quality and help to fulfill requirements according to IEEE 519.

Product Name Order No.	Rated voltage Vac	Rated current A	Inductivity mH	Width/Height/Depth in mm   inch	Rating HP   kW
LR3 48-3/2	3 x 480 Vac	2	11	74/100/56   2.9/3.9/2.2	1   0.75
LR3 48-3/4	3 x 480 Vac	4	5.5	74/100/63   2.9/3.9/2.5	2   1.5
LR3 48-3/6	3 x 480 Vac	6	3.7	80/117/60   3.1/4.6/2.2	3   2.2
LR3 48-3/8	3 x 480 Vac	8	2.75	80/117/69   3.1/4.6/2.2	5   3.7
LR3 48-3/10	3 x 480 Vac	10	2.2	120/140/85   4.7/5.5/3.3	5-10   7.5
LR3 48-3/16	3 x 480 Vac	16	1.38	120/140/95   4.7/5.5/3.7	10   7.5
LR3 48-3/20	3 x 480 Vac	20	1.1	155/177/95   6.1/7.0/3.7	15   11
LR3 48-3/25	3 x 480 Vac	25	0.88	155/177/95   6.1/7.0/3.7	15   11
LR3 48-3/30	3 x 480 Vac	30	0.74	155/177/110   6.1/7.0/4.3	20-25   18.5
LR3 48-3/35	3 x 480 Vac	35	0.63	155/177/110   6.1/7.0/4.3	20-25   18.5
LR3 48-3/40	3 x 480 Vac	40	0.55	185/210/102   7.3/8.3/4.0	30   22
LR3 48-3/45	3 x 480 Vac	45	0.49	185/210/102   7.3/8.3/4.0	30   22
LR3 48-3/50	3 x 480 Vac	50	0.44	185/210/102   7.3/8.3/4.0	30-40   30
LR3 48-3/63	3 x 480 Vac	63	0.35	185/210/112   7.3/8.3/4.4	40   30
LR3 48-3/70	3 x 480 Vac	70	0.32	185/210/122   7.3/8.3/4.8	50   37.5
LR3 48-3/80	3 x 480 Vac	80	0.27	210/240/117   8.3/9.4/4.6	50-60   45
LR3 48-3/90	3 x 480 Vac	90	0.24	210/240/105   8.3/9.4/4.1	60-75   55
LR3 48-3/100	3 x 480 Vac	100	0.22	267/198/115   10.5/7.8/4.5	75   55
LR3 48-3/115	3 x 480 Vac	115	0.19	267/205/193   10.5/8.1/7.6	75   55
LR3 48-3/125	3 x 480 Vac	125	0.18	267/205/139   10.5/8.1/5.5	100   75
LR3 48-3/160	3 x 480 Vac	160	0.14	250/210/129   9.8/8.3/5.1	125   93
LR3 48-3/180	3 x 480 Vac	180	0.12	250/208/149   9.8/8.2/5.9	125-150   112
LR3 48-3/200	3 x 480 Vac	200	0.11	250/230/131   9.8/9.1/5.2	150   200
LR3 48-3/250	3 x 480 Vac	250	0.09	352/260/144   13.9/10.2/5.7	200   150
LR3 48-3/300	3 x 480 Vac	300	0.07	352/328/144   13.9/12.9/5.7	250   187
LR3 48-3/400	3 x 480 Vac	400	0.06	352/260/157   13.9/10.2/6.2	350   262
LR3 48-3/500	3 x 480 Vac	500	0.04	352/265/184   13.9/10.4/7.2	400   300
LR3 48-3/630	3 x 480 Vac	630	0.04	412/315/170   16.2/12.4/6.7	450   340
LR3 48-3/710	3 x 480 Vac	710	0.03	412/315/185   16.2/12.4/7.3	500   375
LR3 48-3/800	3 x 480 Vac	800	0.03	480/370/183   18.9/14.6/7.2	750   575
LR3 48-3/1000	3 x 480 Vac	1000	0.02	480/360/198   21.7/16.1/7.6	800   600
LR3 48-3/1200	3 x 480 Vac	1200	0.02	552/410/193   21.7/16.1/10.7	1000   750
LR3 48-3/1400	3 x 480 Vac	1400	0.02	552/410/242   21.3/18.3/10.6	1200   900
LR3 48-3/1600	3 x 480 Vac	1600	0.01	552/410/272   21.3/18.3/14.6	1400   1050
LR3 48-5/2	3 x 480 Vac	2	18.5	74/100/56   2.9/3.9/2.2	1   0.75
LR3 48-5/10	3 x 480 Vac	10	3.68	120/140/95   4.7/5.5/3.7	5-10   7.5
LR3 48-5/16	3 x 480 Vac	16	2.3	155/177/95   6.1/7.0/3.7	10   7.5
LR3 48-5/20	3 x 480 Vac	20	1.84	155/177/110   6.1/7.0/4.3	15   11
LR3 48-5/25	3 x 480 Vac	25	1.47	155/177/110   6.1/7.0/4.3	15   11
LR3 48-5/100	3 x 480 Vac	100	0.37	250/215/139   9.8/8.5/5.5	75   55
LR3 48-5/115	3 x 480 Vac	115	0.32	250/230/131   9.8/9.1/5.2	75   55
LR3 48-5/125	3 x 480 Vac	125	0.29	291/230/131   11.5/9.1/5.2	100   75
LR3 48-5/160	3 x 480 Vac	160	0.23	352/265/150   13.9/10.4/5.9	125   93
LR3 48-5/180	3 x 480 Vac	180	0.2	352/265/169   13.9/10.4/6.7	125-150   112
LR3 48-5/200	3 x 480 Vac	200	0.18	352/265/169   13.9/10.4/6.7	150   112
LR3 48-5/1000	3 x 480 Vac	1000	0.04	552/410/193   21.7/16.1/7.6	800   600
LR3 48-5/1200	3 x 480 Vac	1200	0.03	552/410/272   21.7/16.1/10.7	1000   750
LR3 48-5/1400	3 x 480 Vac	1400	0.03	540/465/270   21.3/18.3/10.6	1200   900
LR3 48-5/1600	3 x 480 Vac	1600	0.02	540/465/370   21.3/18.3/14.6	1400   1050

# LINE REACTOR, SINGLE-PHASE NKE



## BENEFITS

- › Use as line reactor, commutating reactor or PFC reactor
- › Helps to improve overall power quality
- › Limits inrush current during power-up
- › Increases the service life of consumers
- › Reduces current ripple
- › Very good corrosion protection and low noise thanks to vacuum impregnation
- › Reduces commutation notches
- › Limits inrush current during power-up

## TECHNICAL DATA

- › Rated voltage 230 or 400 Vac
- › Rated current 2 - 63 A
- › Inductance 0.49 - 25.5 mH
- › Insulation class B
- › Ambient temperature -10 °C to +40 °C
- › Degree of protection IP 00

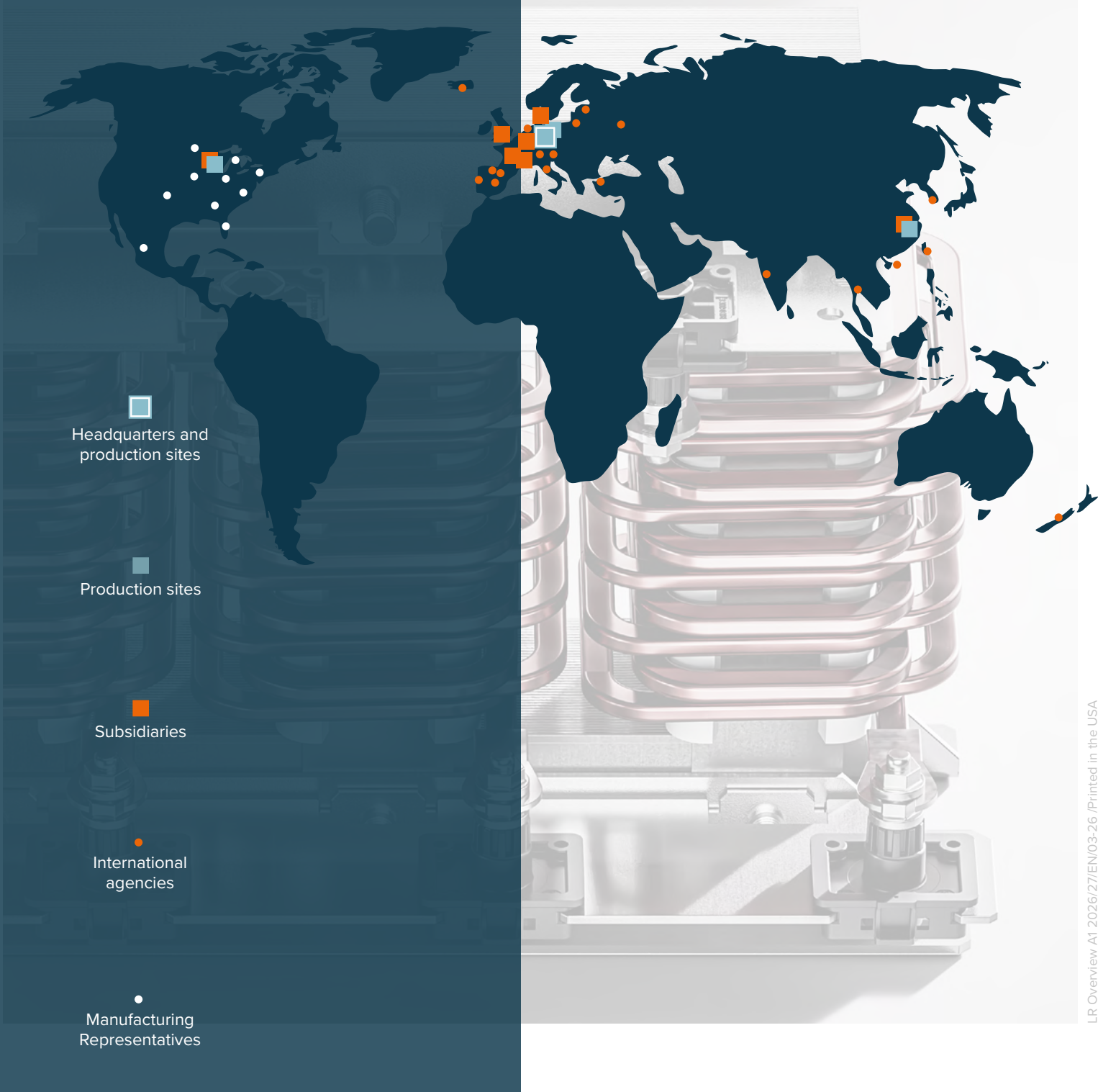
## APPLICATIONS

- › Our single-phase line reactors provide current limiting and harmonic mitigation for rectifiers and other non-linear loads. They help to reduce harmonic distortion and to improve power quality.

Product Name Order No.	Rated voltage Vac	Rated current A	Inductivity mH	Width/Height/Depth in mm
NKE 2/25,50	400	2	25,50	60/70/70   2.4/2.8/2.8
NKE 4/7,33	230	4	7,33	60/70/70   2.4/2.8/2.8
NKE 4/12,75	400	4	12,75	60/70/70   2.4/2.8/2.8
NKE 6/4,88	230	6	4,88	60/70/70   2.4/2.8/2.8
NKE 6/8,50	400	6	8,50	84/95/80   3.3/3.7/3.1
NKE 10/2,93	230	10	2,93	84/95/80   3.3/3.7/3.1
NKE 10/5,10	400	10	5,10	84/96/80   3.3/3.8/3.1
NKE 16/1,83	230	16	1,83	84/96/80   3.3/3.8/3.1
NKE 16/3,19	400	16	3,19	96/110/90   3.8/4.3/3.5
NKE 20/1,47	230	20	1,47	84/98/87   3.3/3.9/3.4
NKE 20/2,55	400	20	2,55	120/130/110   4.7/5.1/4.3
NKE 25/1,17	230	25	1,17	84/98/87   3.3/3.9/3.4
NKE 25/2,04	400	25	2,04	120/130/110   4.7/5.1/4.3
NKE 40/0,73	230	40	0,73	120/130/110   4.7/5.1/4.3
NKE 40/1,28	400	40	1,28	120/130/110   4.7/5.1/4.3
NKE 50/0,59	230	50	0,59	120/130/110   4.7/5.1/4.3
NKE 63/0,49	230	63	0,49	120/160/92   4.7/6.3/3.6

Other voltages and currents available upon request.

# A GLOBAL GROUP



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**BLOCK USA, Inc.**  
10632 W. Grand Avenue  
Franklin Park  
Illinois 60131 • USA  
Phone: +1 847 260 9060  
info@blockusa.com • www.blockusa.com

**BLOCK**   
perfecting power