

# GS/DURApulse Drives Accessories – Line/Load Reactors

## LR Series Line Reactors

Input line reactors protect the AC drive from transient overvoltage conditions typically caused by utility capacitor switching. Input line reactors also reduce the harmonics associated with AC drives, and are recommended for all installations.

Output line (load) reactors protect the motor insulation against AC drive short circuits and IGBT reflective wave damage, and also allow the motor to run cooler by “smoothing” the motor current waveform. They are recommended for operating “non-inverter-duty” motors, and for any motors where the length of wiring between the AC drive and motor exceeds 75 feet.

**Features:**

- Universal mounting feet with multiple mounting slots; can replace most reactors using existing mounting holes
- Short-term overload rating: 200% of rated current for 3 minutes maximum
- Overload inductance: 95% @ 110% load; 80% @ 150% load
- 10-year warranty

**Agency Approvals:**

- cUL<sub>US</sub> listed (E197592)
- CE marked
- RoHS

## Line/Load Reactors for GS1, GS2, GS3/DURAPULSE AC Drives – Selection Specifications

Line/Load Reactors – LR Series – for GS1, GS2, GS3/DURAPULSE								
Part Number	Rated Amps	Impedance	Inductance	Watt Loss	System Voltage	Phase – Use (1)	GS Drive Model	Drive hp
1) Use (side of drive): In = input only; Out = output only; I/O = input or output.								
2) Single-phase line reactors should NOT be installed on the output side of AC drives.								
<a href="#">LR-20P5</a>	2.4	3%	4.2 mH	7	208/240	3 – I/O	<a href="#">GS1-20P2</a>	0.25
<a href="#">LR-21P0-1PH</a> (2)	8		2.29 mH	15.9	115	1 – In	<a href="#">GS1-21P0</a>	0.33
<a href="#">LR-22P0-1PH</a> (2)	12		1.53 mH	24.3	115	1 – In 1 – In	<a href="#">GS2-22P0</a>	0.5
<a href="#">LR-23P0-1PH</a> (2)	17		1.08 mH	27.3	115	1 – In 1 – In	<a href="#">GS2-23P0</a> <a href="#">GS3-23P0</a>	1 1
<a href="#">LR-23P0</a>	10.6		0.97 mH	38	208/240	3 – I/O 3 – I/O	<a href="#">GS2-23P0</a> <a href="#">GS3-23P0</a>	3 3
<a href="#">LR-25P0</a>	16.7		0.626 mH	48		3 – I/O 3 – I/O	<a href="#">GS3-25P0</a> <a href="#">GS2-25P0</a>	5 5
<a href="#">LR-27P5</a>	24.2		0.434 mH	65		3 – I/O 3 – I/O	<a href="#">GS2-27P5</a> <a href="#">GS3-27P5</a>	7.5 7.5
<a href="#">LR-2010</a>	30.8		0.342 mH	96	208/240	3 – I/O	<a href="#">GS3-2010</a>	10
<a href="#">LR-2015</a>	46.2		0.22 mH	64			<a href="#">GS3-2015</a>	15
<a href="#">LR-2020</a>	59.4		0.172 mH	85			<a href="#">GS3-2020</a>	20
<a href="#">LR-2030</a>	88		0.116 mH	135			<a href="#">GS3-2030</a>	30
<a href="#">LR-2040</a>	114		0.0886 mH	149			<a href="#">GS3-2040</a>	40
<a href="#">LR-2050</a>	143		0.0699 mH	154			<a href="#">GS3-2050</a>	50
<i>(table continued next page)</i>								

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## Line/Load Reactors for GS1, GS2, GS3/DURAPULSE AC Drives – Selection Specifications

Line/Load Reactors – LR Series – for GS1, GS2, GS3/DURAPULSE								
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<b>LR-21P0-1PH</b> (2)	8		2.29 mH	15.9	115	1 – In	<b>GS1-21P0</b>	0.33
<b>LR-23P0-1PH</b> (2)	17		1.08 mH	27.3	115	1 – In	<b>GS3-23P0</b>	1
<b>LR-23P0</b>	10.6		0.97 mH	38	208/240	3 – I/O	<b>GS3-23P0</b>	3
<b>LR-25P0</b>	16.7		0.626 mH	48		3 – I/O	<b>GS3-25P0</b>	5
<b>LR-27P5</b>	24.2		0.434 mH	65		3 – I/O	<b>GS3-27P5</b>	7.5
<b>LR-2010</b>	30.8		0.342 mH	96	208/240	3 – I/O	<b>GS3-2010</b>	10
<b>LR-2015</b>	46.2		0.22 mH	64			<b>GS3-2015</b>	15
<b>LR-2020</b>	59.4		0.172 mH	85			<b>GS3-2020</b>	20
<b>LR-2030</b>	88		0.116 mH	135			<b>GS3-2030</b>	30
<b>LR-2040</b>	114		0.0886 mH	149			<b>GS3-2040</b>	40
<b>LR-2050</b>	143		0.0699 mH	154			<b>GS3-2050</b>	50
<b>LR-4010</b>	14		1.29 mH	64			480	<b>GS3-4010</b>
<b>LR-4020</b>	27		0.694 mH	79	<b>GS3-4020</b>	20		
<b>LR-4040</b>	52		0.387 mH	114	<b>GS3-4040</b>	40		
<b>LR-4060</b>	77		0.227 mH	169	<b>GS3-4060</b>	60		
<b>LR-4100</b>	124		0.152 mH	225	<b>GS3-4100</b>	100		
<b>LR-4125</b>	156		0.117 mH	254	-	125		
<b>LR-4150</b>	180		0.103 mH	299		150		
<b>LR-4200</b>	240		0.0839 mH	280		200		
<b>LR-4250</b>	302		0.0654 mH	337		250		
<b>LR-4300</b>	361		0.0565 mH	381		300		
<b>LR-5010</b>	11		2.47 mH	43.8	575/600	-		7.5
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