GENLINK[™] Dissimilar Pitch Neutral Limiter



When paralleling equipment such as generators or other distributed generation

Challenges of Parallel Operations

sources to each other or the utility supply, it is imperative that voltages produced by the generating equipment are as closely matched as possible. This means not only the RMS voltage values but the actual voltage waveshapes as well. Given the increased usage of this equipment, there are many paralleling applications where the voltage waveshapes can be dissimilar, resulting in high neutral circulating currents. Common reasons for these differences include:

- 1. Using generators with different pitch configurations made by different manufacturers or by the same manufacturer who has changed its standard pitch designs
- 2. Solar, wind or other alternative energy sources which use inverters to convert DC power to AC for connection to the Utility

To solve these challenges, Mirus' GENLINK Dissimilar Pitch Neutral Limiter (DPNL) is a multiple winding reactor which is installed in the common neutral of paralleled sources.

Treating Neutral Circulating Current

Generators with different pitch configurations will have slightly different voltage waveshapes. These differences can produce phase-to-neutral instantaneous voltages which can introduce heavy neutral circulating currents which are predominantly triple frequency.

Mirus' GENLINK, once installed in the common neutral of paralleled generators, adds impedance to block the flow of circulating currents while adding only minimal impedance to the flow of fault current. If left untreated, these circulating currents can cause overheating in the generator windings and false tripping of overcurrent protection equipment, especially ground fault detection schemes.

Applications

GENLINK can be used in both 3-wire and 4-wire systems. In both systems, GENLINK is used when two or more generators of dissimilar pitch are paralleled together or a generator is paralleled with an alternate source, such as the Utility. DPNL is then inserted in the neutral between the dissimilar generators or the generator and Utility supply.

For 4-wire applications where there is return neutral current from 1-Ph loads, GENLINK must be sized for this current as well as the circulating current. For 3-wire applications where there is no return neutral current from 1-Ph loads, a smaller size GENLINK can be used.

In addition to dissimilar pitched generator applications, GENLINK can also be applied to various parallel source applications with common neutral and dissimilar voltage waveforms.



Key Features

- Inserts >40% impedance in neutral current circulating path
- Reduces neutral circulating current by >75%
- Adds <1% saturated impedance to 1-Ph fault path
- No impedance to 3-Ph fault path
- Use in 3-wire or 4-wire applications or any parallel source application with a common neutral and dissimilar voltage waveforms
- Eliminates generator overheating and false protection trips caused by triple frequency circulating currents
- Easy to install
- Reliable and proven performance

General Specifications:

•	
Voltage	Return Circu- Neutral lating
690V or less, 3-phase, 3 or 4 wire,	(Amps) (Amps)
60 or 50Hz	200 100
Operating Temp, Rise	500 250
130°C (Max, Ambient of 40°C)	1000 500
Insulation Class	1500 750
	2000 1000
	2000 1200
System Connection	3000 1300
series connected in the common	
dissimiliar winding pitches	Return Circu-
Equiv Efficiency at Full Load	Neutral lating
	200 100
> 99%	500 250
Through Impedance (%Z)	1000 500
Y-Z Term: ~ 45%	1500 750
X-Y or X-Z Term: ~ 1% (saturated)	2000 1000
Winding Material	2500 1250
Copper	3000 1500
Insulating Varnish Impregnation	* Estimated values.
Polvester Resin	
Audible Sound Level	
As per NEMA ST-20 & CSA C9	
Based on equivalent kVA	
Ventilation	INSTALLAT
Convection air cooled	IN A 3-WIF
Enclosure	
Type: Nema-3R, ventilated	
Colour: ANSI 61 Grey	
Colour. And of Cley	
Temperature Switches	
170°C and 200°C	
Overload Alarm	
ALM2: Overload Alarm with horn and	
flashing light (requires separate	INSTALLAT
power, supplied by cistomer)	IN A 4-WI

'MT & LT' Style Enclosure



Canada L6S 5P6



					DPNI	Rating Table	[60Hz]			
	Return	Circu-	Tota	l Canad	rity of all Para	alleled Sources		A1 Case	Weight*	Losses @
	Neutral	lating	202					NV Style	lbs [ka]	Full Load
	(Amps)	(Amps)	200	2407	400-4807	220 [400]	000-000		103 [Kg]	
	200	100	68	[85]	250 [312]	320 [400]	360 [45		150 [68]	150
	500	250	160	[200]	640 [800]	800 [1000]	900 [11	20] MT2	330 [150]	315
	1000	500	335	[420]	1280 [1600]	1600 [2000]	1800 [22	250] MT2	408 [185]	515
	1500	750	500	[625]	2000 [2500]	2400 [3000]	2720 [34	400] MT3	500 [227]	765
	2000	1000	675	[840]	2500 [3126]	3200 [4000]	3600 [45	500] MT3	560 [254]	800
	2500	1250	840 [10501	3200 [4000]	4000 [5000]	4500 56	6251 MT4	725 [329]	965
	3000	1500	1000	[1250]	3800 [4750]	4800 [6000]	5475 [68	3/31 I T1	960 [436]	1120
	3000	1300	1000	[1230]	0000 [47 30]		0470 [00		900 [4 30]	1120
					DDNI	Detine Table	10011-1			
	Poturn	Circu		1.0	DPNL	. Rating Table	[50HZ]		10/0:01-1*	
	Neutral	lating	Tota	Il Capad	city of all Para	alleled Sources	5 KW [KV#	AJ Case	weight	Full Load
	(Amps)	(Amps)	208-	240V	380-440V	575-600V	660-69	0V ∣Style	lbs [kg]	(Watts)
	200	100	68	[85]	250 [312]	320 [400]	360 [45	50] MT1	160 [73]	210
	500	250	160	[200]	640 [800]	800 [1000]	900 [11]	201 MT2	262 [119]	360
	1000	500	335	[420]	1280 [1600]	1600 [2000]	1800 [22	2501 MT2	527 [239]	630
	1500	750	500	[720]	2000 [2500]	2400 [2000]	2720 [22		620 [200]	950
	1500	750	500	[020]	2000 [2500]	2400 [3000]	2720[34		000 [309]	000
	2000	1000	675	[840]	2500 [3126]	3200 [4000]	3600 [45	500] MT3	749 [340]	1050
	2500	1250	840 [1050]	3200 [4000]	4000 [5000]	4500 [56	625] MT4	863 [392]	1250
	3000	1500	1000	[1250]	3800 [4750]	4800 [6000]	5475 [68	343] LT1	1241 [563]	1350
	* Estimate	ed values.	•							
							GENLINK	(
					GEN	I. 3 GEN. 1	(DPNL)	GEN. 2	GEN. 4	
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