



ALTERNATOR DATA SHEET

Frame Size LVS1804T

CHARACTERISTICS		2-bearing weight			
WEIGHTS:	Stator Assembly:	8521 lb	3865 kg	8521 lb	3865 kg
	Rotor Assembly:	4392 lb	1992 kg	4546 lb	1926 kg
	Complete Assembly:	12912 lb	5857 kg	12766 lb	5791 kg
MAXIMUM SPEED:		2250	Rpm		
EXCITATION CURRENT:	Full Load	3.6	Amps		
	No Load	0.86	Amps		
INSULATION SYSTEM:	Class H Throughout				

3 Ø RATINGS (0.8 power factor) (Based on specific temperature rise at 40°C ambient temperature)	60 Hz (winding no)				
	416 (12)	440 (12)	480 (12)		380 (13)
163°C Rise Ratings	kW	2792	2952	3220	2992
	kVA	3490	3690	4025	3740
150°C Rise Ratings	kW	2712	2872	3132	2904
	kVA	3390	3590	3915	3630
125°C Rise Ratings	kW	2536	2684	2928	2720
	kVA	3170	3355	3660	3400
105°C Rise Ratings	kW	2328	2464	2688	2504
	kVA	2910	3080	3360	3130
80°C Rise Ratings	kW	2080	2200	2400	2200
	kVA	2600	2750	3000	2750

REACTANCES (per unit ± 10%) (Based on full load at 125C Rise Rating)	416 (12)	440 (12)	480 (12)		380 (13)
Synchronous	3.113	2.945	2.700		2.900
Transient	0.227	0.215	0.197		0.214
Subtransient	0.166	0.157	0.144		0.158
Negative Sequence	0.240	0.227	0.208		0.226
Zero Sequence	0.031	0.029	0.027		0.029

MOTOR STARTING	416 (12)	440 (12)	480 (12)		380 (13)
Maximum kVA (90% Sustained Voltage)	9719	9719	9719		10049

TIME CONSTANTS (Sec)	416-480 (12)				380 (13)
Transient	0.190				0.190
Subtransient	0.015				0.015
Open Circuit	4.400				4.300
DC	0.072				0.075

WINDINGS (@20°C)	416-480 (12)				380 (13)
Stator Resistance (Line to Line, Ohms)	0.00088				0.00063
Rotor Resistance (Ohms)	1.500				1.500
Number of Leads	6				6



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CHARACTERISTICS

WEIGHTS:	Stator Assembly:	8521 lb	3865 kg	2-bearing weight	
	Rotor Assembly:	4392 lb	1992 kg	8521 lb	3865 kg
	Complete Assembly:	12912 lb	5857 kg	4546 lb	1926 kg
MAXIMUM SPEED:		2250	Rpm		
EXCITATION CURRENT:	Full Load	3.6	Amps		
	No Load	0.86	Amps		
INSULATION SYSTEM:	Class H Throughout				

3 Ø RATINGS (0.8 power factor) (Based on specific temperature rise at 40°C ambient temperature)	50 Hz (winding no)				
	380 (12)	400 (12)	415 (12)	440 (12)	
163°C Rise Ratings	kW	2544	2680	2680	2520
	kVA	3180	3350	3350	3150
150°C Rise Ratings	kW	2476	2608	2608	2452
	kVA	3095	3260	3260	3065
125°C Rise Ratings	kW	2316	2440	2440	2292
	kVA	2895	3050	3050	2865
105°C Rise Ratings	kW	2128	2240	2240	2104
	kVA	2660	2800	2800	2630
80°C Rise Ratings	kW	1860	1960	1960	1840
	kVA	2325	2450	2450	2300
REACTANCES (Based on full load at 125C Rise Rating)	(per unit ± 10%)	380 (12)	400 (12)	415 (12)	440 (12)
Synchronous		2.840	2.700	2.508	2.096
Transient		0.207	0.197	0.183	0.153
Subtransient		0.151	0.144	0.134	0.112
Negative Sequence		0.219	0.208	0.193	0.161
Zero Sequence		0.028	0.027	0.025	0.021
MOTOR STARTING		380 (12)	400 (12)	415 (12)	440 (12)
Maximum kVA	(90% Sustained Voltage)	7354	7354	7354	7354
TIME CONSTANTS	(Sec)	380-440 (12)			
Transient		0.190			
Subtransient		0.015			
Open Circuit		4.400			
DC		0.072			
WINDINGS	(@20°C)	380-440 (12)			
Stator Resistance	(Line to Line, Ohms)	0.00088			
Rotor Resistance	(Ohms)	1.500			
Number of Leads		6			



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Frame Size LVSI804T

CHARACTERISTICS		2-bearing weight			
WEIGHTS:	Stator Assembly:	8521 lb	3865 kg	8521 lb	3865 kg
	Rotor Assembly:	4392 lb	1992 kg	4546 lb	1926 kg
	Complete Assembly:	12912 lb	5857 kg	12766 lb	5791 kg
MAXIMUM SPEED:		2250	Rpm		
EXCITATION CURRENT:	Full Load	3.14	Amps		
	No Load	0.86	Amps		
INSULATION SYSTEM:	Class H Throughout				

3 Ø RATINGS (0.8 power factor) (Based on specific temperature rise at 40°C ambient temperature)	60 Hz (winding no)		
	163°C Rise Ratings kW kVA		480 (19)
150°C Rise Ratings kW kVA		NA	NA
125°C Rise Ratings kW kVA		NA	NA
105°C Rise Ratings kW kVA		2250 2813	NA
80°C Rise Ratings kW kVA		NA	NA

REACTANCES (per unit ± 10%) (Based on full load at 125C Rise Rating)	480 (19)	
Synchronous	2.070	
Transient	0.151	
Subtransient	0.111	
Negative Sequence	0.160	
Zero Sequence	0.021	

MOTOR STARTING	480 (19)	
Maximum kVA (90% Sustained Voltage)	9720	

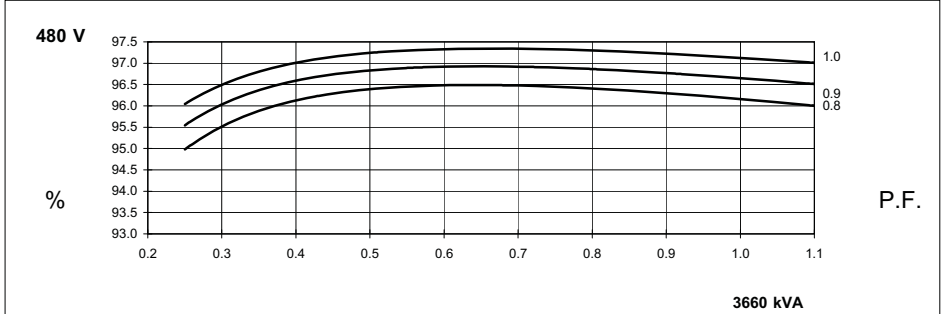
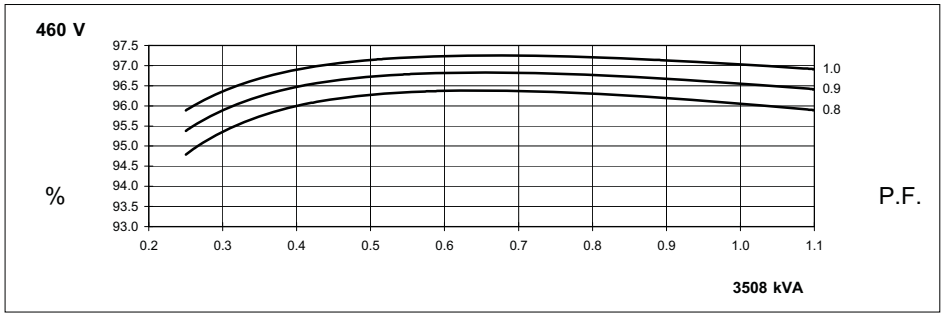
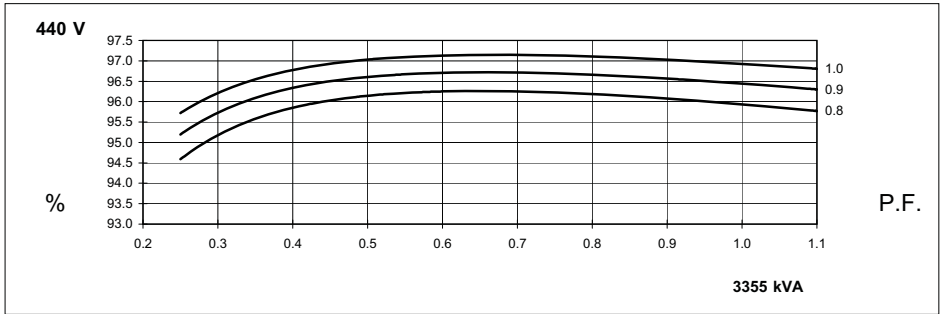
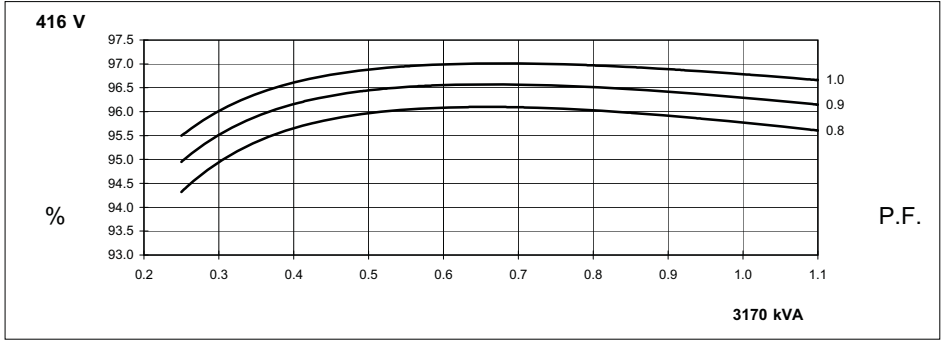
TIME CONSTANTS (Sec)	480 (19)	
Transient	0.190	
Subtransient	0.015	
Open Circuit	4.400	
DC	0.072	

WINDINGS (@20°C)	480 (19)	
Stator Resistance (Line to Line, Ohms)	0.000878	
Rotor Resistance (Ohms)	1.500	
Number of Leads	6	



ALTERNATOR DATA SHEET **Frame Size** **LVSI804T**

THREE PHASE EFFICIENCY CURVES **WDG 12** **60 Hz**





ALTERNATOR DATA SHEET

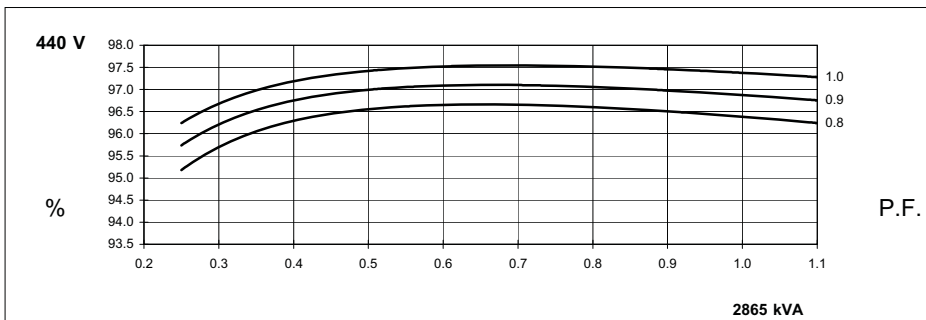
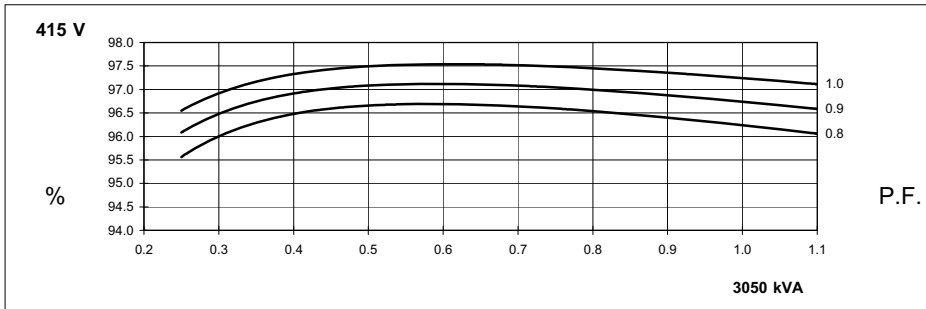
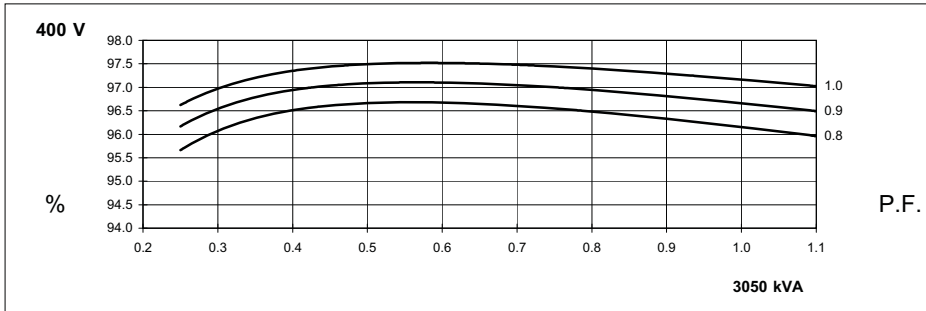
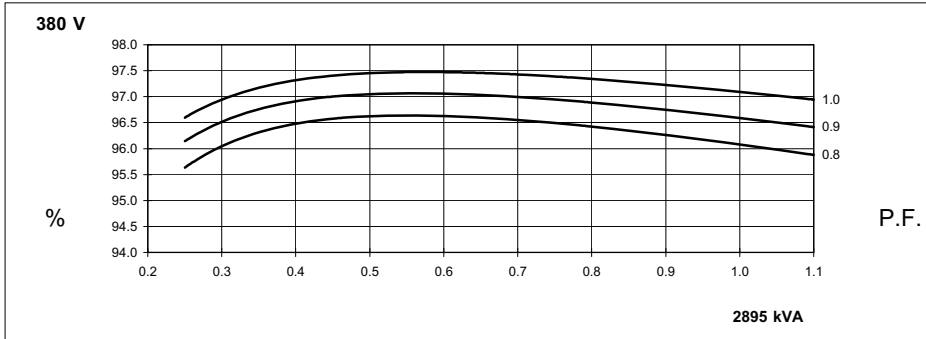
Frame Size

LVSI804T

THREE PHASE EFFICIENCY CURVES

WDG 12

50 HZ





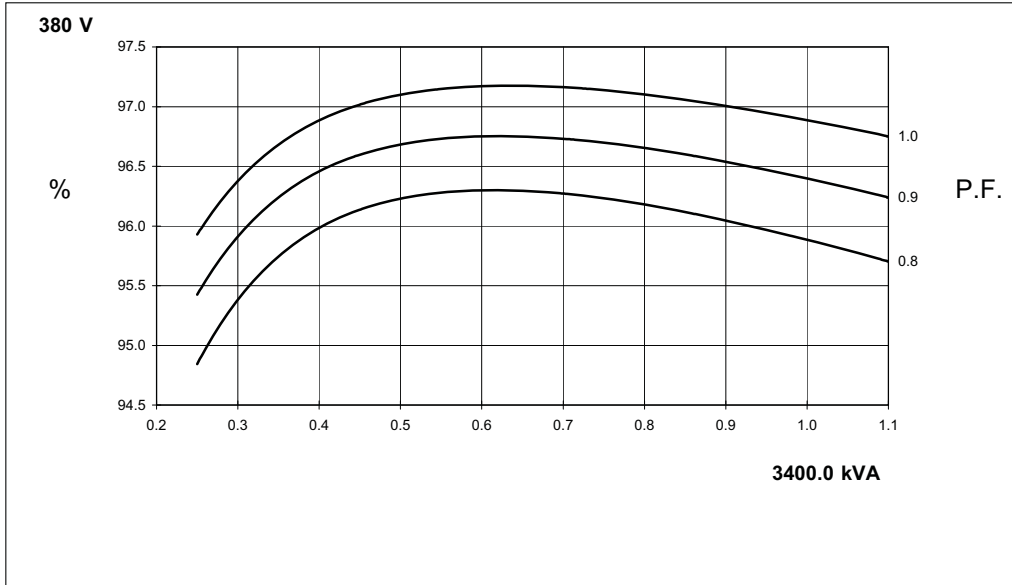
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Frame Size

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THREE PHASE EFFICIENCY CURVES WDG 13

60 Hz

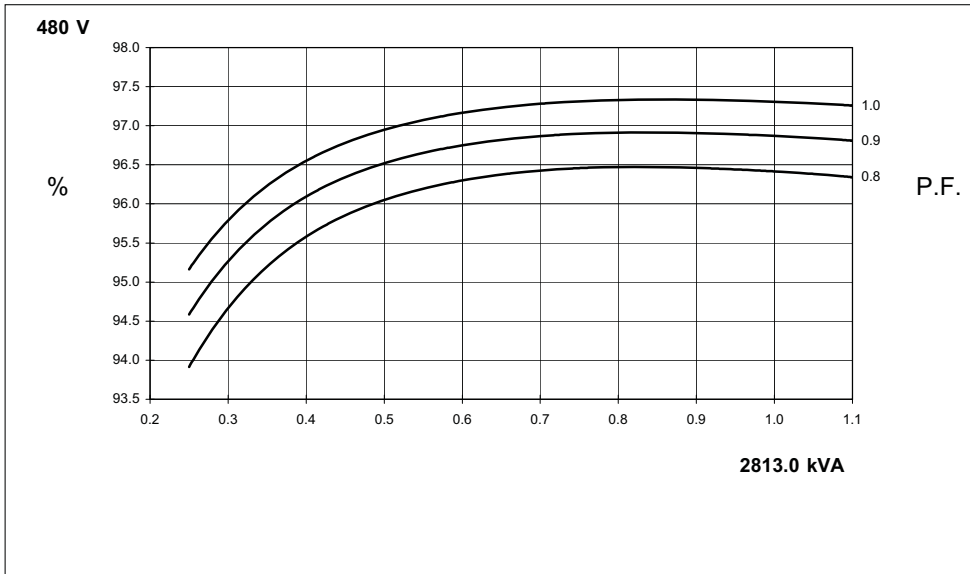


ALTERNATOR DATA SHEET **Frame Size** **LVSI804T**

THREE PHASE EFFICIENCY CURVES

WDG 19

60 Hz



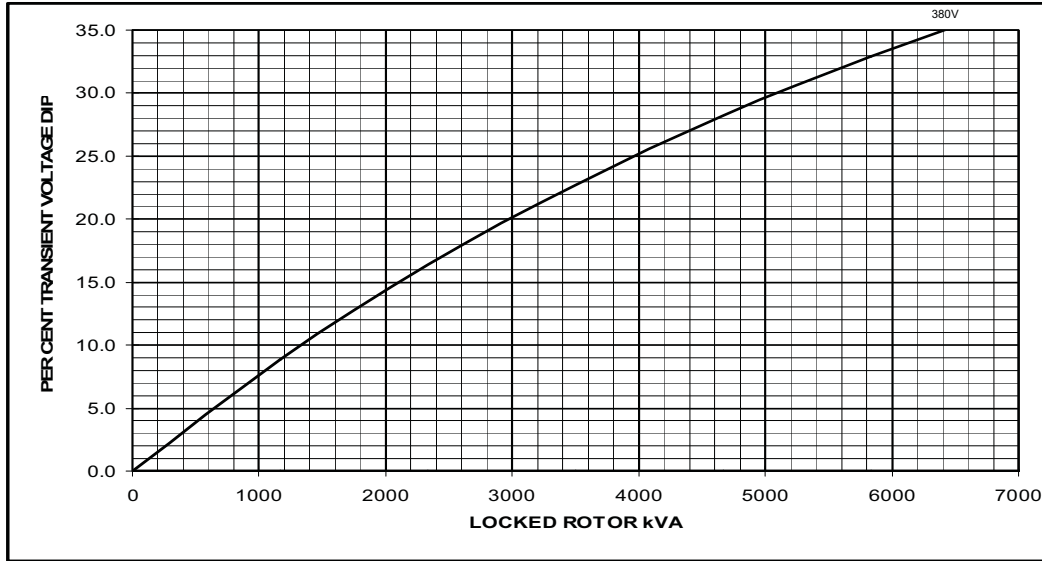
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Frame Size

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LOCKED ROTOR MOTOR STARTING CURVE WDG 13

60 HZ

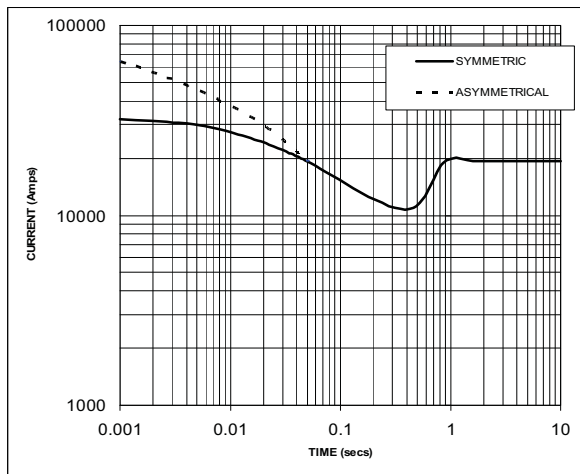


**Three Phase Short Circuit Decrement Curve
No- Load Excitation at Rated Speed**

WDG 13

60 HZ

Based on series star (wye) connection



NOTE 1

THE FOLLOWING MULTIPLICATION FACTORS SHOULD BE USED TO ADJUST THE VALUES FROM CURVES BETWEEN THE 0.001 SECONDS AND THE MINIMUM CURRENT POINT IN RESPECT OF NOMINAL OPERATING VOLTAGE

VOLTAGE	FACTOR
380V	X 1.00

THE SUSTAINED CURRENT VALUE IS CONSTANT IRRESPECTIVE OF VOLTAGE LEVEL

NOTE 2

THE FOLLOWING MULTIPLICATION FACTORS SHOULD BE USED TO CONVERT THE VALUES CALCULATED IN ACCORDANCE WITH NOTE 1 TO THOSE APPLICABLE TO THE VARIOUS TYPES OF SHORT CIRCUIT

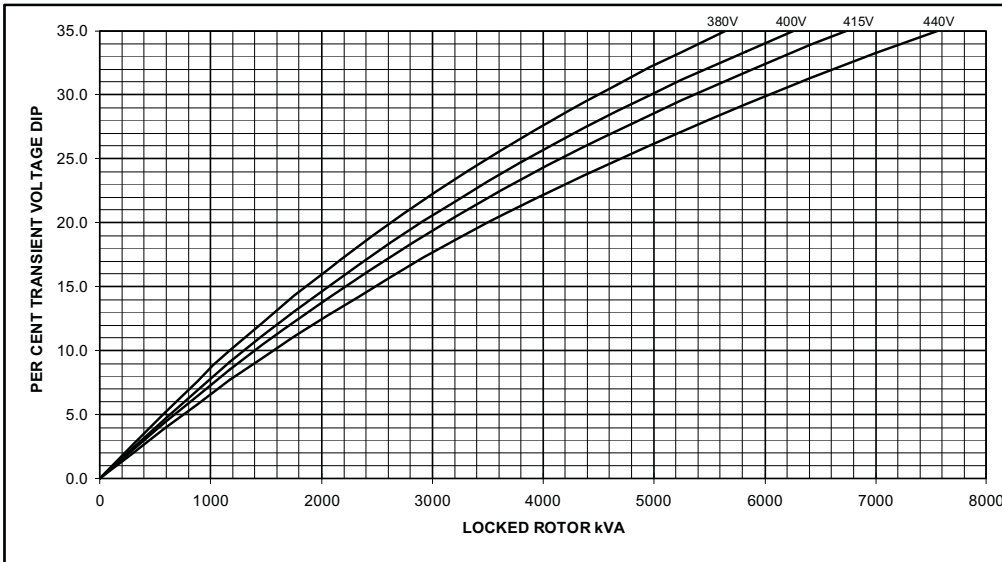
	3 PHASE	2 PHASE L-L	1 PHASE L-N
INSTANTANEOUS	X 1.0	X 0.87	X 1.30
MINIMUM	X 1.0	X 1.80	X 3.20
SUSTAINED	X 1.0	X 1.50	X 2.50
MAX SUSTAINED DURATION	10 SEC	5 SEC	2 SEC

ALL OTHER TIMES ARE UNCHANGED

SUSTAINED SHORT CIRCUIT = 19372 Amps

LOCKED ROTOR MOTOR STARTING CURVE WDG 12

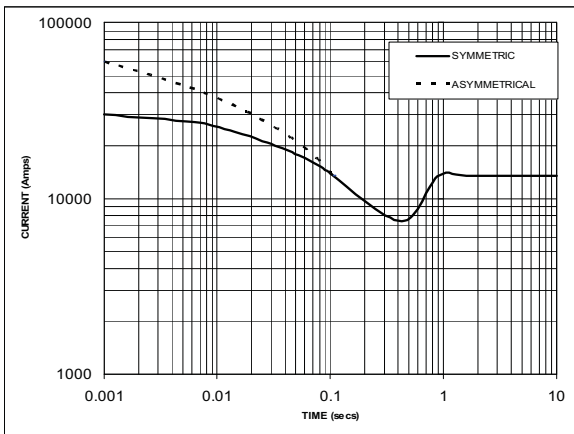
50 HZ



WDG 12 50Hz

**Three Phase Short Circuit Decrement Curve
No- Load Excitation at Rated Speed**

Based on series star (wye) connection



NOTE 1
THE FOLLOWING MULTIPLICATION FACTORS SHOULD BE USED TO ADJUST THE VALUES FROM CURVES BETWEEN THE 0.001 SECONDS AND THE MINIMUM CURRENT POINT IN RESPECT OF NOMINAL OPERATING VOLTAGE

VOLTAGE	FACTOR
380V	X 0.95
400V	X 1.00
415V	X 1.04
440V	X 1.10

THE SUSTAINED CURRENT VALUE IS CONSTANT IRRESPECTIVE OF VOLTAGE LEVEL

NOTE 2
THE FOLLOWING MULTIPLICATION FACTORS SHOULD BE USED TO CONVERT THE VALUES CALCULATED IN ACCORDANCE WITH NOTE 1 TO THOSE APPLICABLE TO THE VARIOUS TYPES OF SHORT CIRCUIT

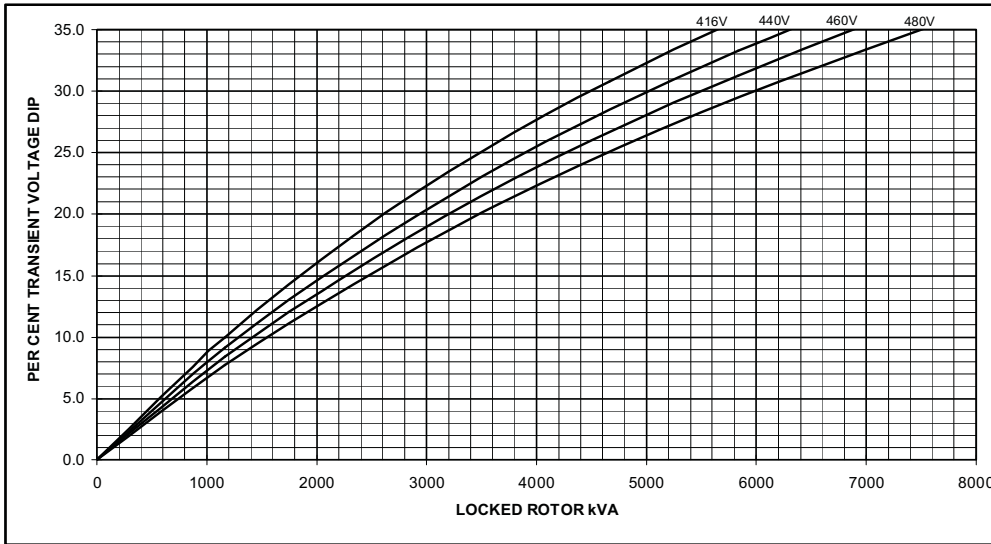
	3 PHASE	2 PHASE L-L	1 PHASE L-N
INSTANTANEOUS	X 1.0	X 0.87	X 1.30
MINIMUM	X 1.0	X 1.80	X 3.20
SUSTAINED	X 1.0	X 1.50	X 2.50
MAX SUSTAINED DURATION	10 SEC	5 SEC	2 SEC

ALL OTHER TIMES ARE UNCHANGED

SUSTAINED SHORT CIRCUIT = 13427 Amps

LOCKED ROTOR MOTOR STARTING CURVE WDG 12

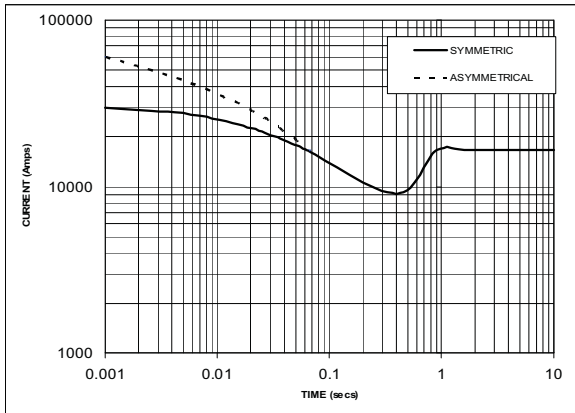
60 Hz



WDG 12 60Hz

**Three Phase Short Circuit Decrement Curve
No- Load Excitation at Rated Speed**

Based on series star (wye) connection



NOTE 1
THE FOLLOWING MULTIPLICATION FACTORS SHOULD BE USED TO ADJUST THE VALUES FROM CURVES BETWEEN THE 0.001 SECONDS AND THE MINIMUM CURRENT POINT IN RESPECT OF NOMINAL OPERATING VOLTAGE:

VOLTAGE	FACTOR
416V	X 0.87
440V	X 0.92
460V	X 0.96
480V	X 1.00

THE SUSTAINED CURRENT VALUE IS CONSTANT IRRESPECTIVE OF VOLTAGE LEVEL

NOTE 2
THE FOLLOWING MULTIPLICATION FACTORS SHOULD BE USED TO CONVERT THE VALUES CALCULATED IN ACCORDANCE WITH NOTE 1 TO THOSE APPLICABLE TO THE VARIOUS TYPES OF SHORT CIRCUIT:

	3 PHASE	2 PHASE L-L	1 PHASE L-N
INSTANTANEOUS	X 1.0	X 0.87	X 1.30
MINIMUM	X 1.0	X 1.80	X 3.20
SUSTAINED	X 1.0	X 1.50	X 2.50
MAX SUSTAINED DURATION	10 SEC	5 SEC	2 SEC

ALL OTHER TIMES ARE UNCHANGED

SUSTAINED SHORT CIRCUIT - 16509 Amps

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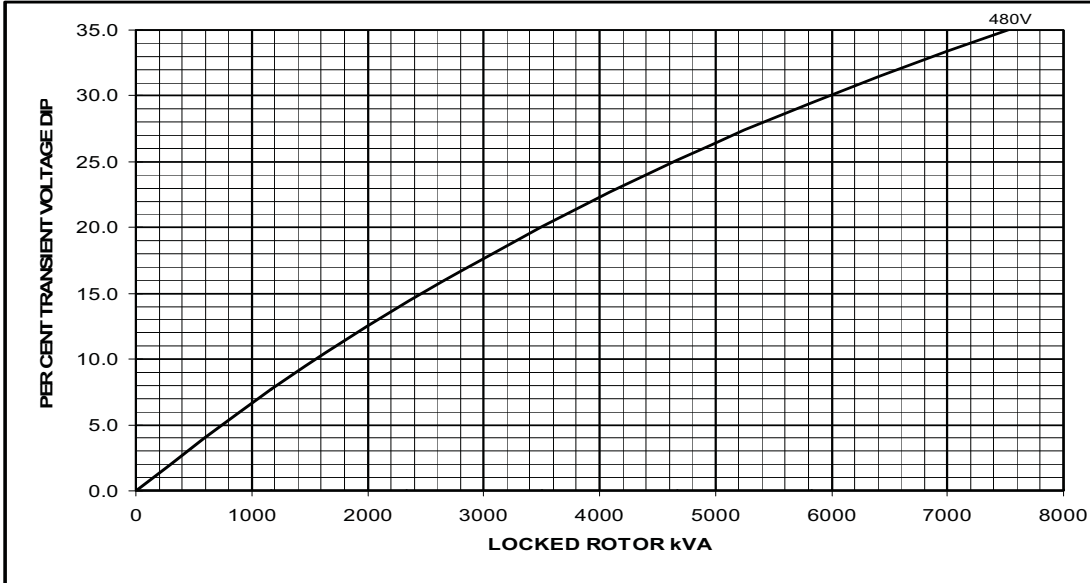
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LVSI804T

LOCKED ROTOR MOTOR STARTING CURVE

WDG 19

60 Hz

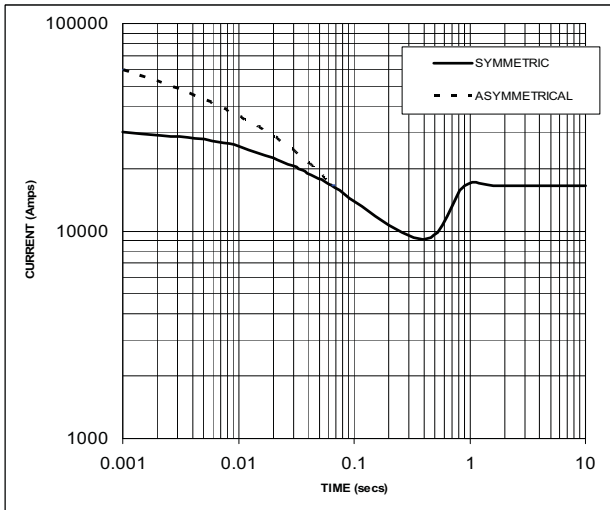


**Three Phase Short Circuit Decrement Curve
No- Load Excitation at Rated Speed**

WDG 19

60 HZ

Based on series star (wye) connection



NOTE 1
THE FOLLOWING MULTIPLICATION FACTORS SHOULD BE USED TO ADJUST THE VALUES FROM CURVES BETWEEN THE 0.001 SECONDS AND THE MINIMUM CURRENT POINT IN RESPECT OF NOMINAL OPERATING VOLTAGE

VOLTAGE	FACTOR
480V	X 1.00

THE SUSTAINED CURRENT VALUE IS CONSTANT IRRESPECTIVE OF VOLTAGE LEVEL

NOTE 2
THE FOLLOWING MULTIPLICATION FACTORS SHOULD BE USED TO CONVERT THE VALUES CALCULATED IN ACCORDANCE WITH NOTE 1 TO THOSE APPLICABLE TO THE VARIOUS TYPES OF SHORT CIRCUIT

	3 PHASE	2 PHASE L-L	1 PHASE L-N
INSTANTANEOUS	X 1.0	X 0.87	X 1.30
MINIMUM	X 1.0	X 1.80	X 3.20
SUSTAINED	X 1.0	X 1.50	X 2.50
MAX SUSTAINED DURATION	10 SEC	5 SEC	2 SEC

ALL OTHER TIMES ARE UNCHANGED

SUSTAINED SHORT CIRCUIT = 16512 Amps