

S1L2-Y1 Winding 17

S1L2-Y1 - Technical Data Sheet

Standards

Stamford industrial alternators meet the requirements of IEC EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100 and AS1359. Other standards and certifications can be considered on request.

Quality Assurance

Alternators are manufactured using production procedures having a quality assurance level to BS EN ISO 9001.



Excitation and Voltage Regulators

Excitation System		
AVR Type	AVR Power	
AS540	Self-Excited	
Voltage Regulation	± 1%	
No Load Excitation Voltage (V)	10.3 V	
Full Load Excitation Voltage (V)	46.6 V	



Insulation System	Electrical Data		
Winding Pitch Two Thirds Winding Leads 12 Winding Number 17 Number of Poles 4 IP Rating IP23 RFI Suppression EN 61000-6-2 & EN 61000-6-4, refer to factory for others Waveform Distortion NO LOAD < 2.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%	Insulation System	Class H	
Winding Leads	Stator Winding	Double Layer Concentric	
Winding Number 17 Number of Poles 4 4 4 4 4 4 4 4 4	Winding Pitch	Two Thirds	
Number of Poles 4 IP Rating 1P23 RFI Suppression EN 61000-6-2 & EN 61000-6-4, refer to factory for others Waveform Distortion NO LOAD < 2.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0% Short Circuit Ratio 1/Xd Steady State X/R Ratio N/A Felephone Interference TIF-75 Voltage Series Star 600 Voltage Parallel Star 300 Voltage Parallel Star 300 Voltage Parallel Star 346 KVA Base Rating (Class H) 75 Saturated Values in Per Unit at Base Ratings and Voltages Xd Dir. Axis Synchronous 2.112 X'd Dir. Axis Synchronous 2.112 X'd Dir. Axis Subtransient 0.073 X'd Dir. Axis Subtransient 0.085 Xq Quad. Axis Reactance 1.299 X'q Quad. Axis Subtransient 0.128 XL Stator Leakage Reactance 0.073 X2 Negative Sequence Reactance 0.064 X0 Zero Sequence Reactance 0.063 Unsaturated Values in Per Unit at Base Ratings and Voltages Xd Dir. Axis Synchronous 2.534 X'd Dir. Axis Synchronous 2.534 X'd Dir. Axis Synchronous 0.064 X0 Zero Sequence Reactance 0.065 Unsaturated Values in Per Unit at Base Ratings and Voltages Xd Dir. Axis Synchronous 2.534 X'd Dir. Axis Subtransient 0.076 Xq Quad. Axis Reactance 1.338 X'd Quad. Axis Reactance 0.082 X Sequence Reactance 0.082 X Sequence Reactance 0.062 Time Constants (Seconds) T'd TRANSIENT TIME CONST. 0.002 Trid SUB-TRANSTIME CONST. 0.002 Trid CO.C. FIELD TIME CONST. 0.002	Winding Leads	12	
IP Rating	Winding Number	17	
### RFI Suppression	Number of Poles	4	
Waveform Distortion	IP Rating	IP23	
Short Circuit Ratio	RFI Suppression	EN 61000-6-2 & EN 61000-6-4, refer to factory for others	
Steady State X/R Ratio	Waveform Distortion	NO LOAD < 2.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%	
Telephone Interference	Short Circuit Ratio	1/Xd	
Telephone Interference	Steady State X/R Ratio	N/A	
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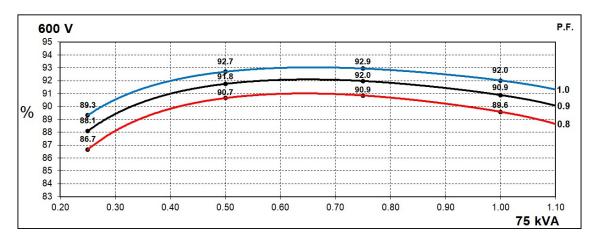


Resistances in Ohms (Ω) at 22 ^o C		
Stator Winding Resistance (Ra)	$0.132~\Omega$ per phase series star connected	
Rotor Winding Resistance (Rf)	1.279 Ω	
Exciter Stator Winding Resistance	16.000 Ω	
Exciter Rotor Winding Resistance	0.137 Ω per phase	
Positive Sequence Resistance (R1)	0.165 Ω	
Negative Sequence Resistance (R2)	0.19 Ω	
Zero Sequence Resistance (R0)	0.19 Ω 0.165 Ω	
Aux Winding Resistance	N/A	
Mechanical data		
Cooling Air	0.212 m³/sec	
	All alternator rotors are dynamically balanced to better than	
Shaft and Keys	BS6861: Part 1 Grade 2.5 for minimum vibration in operation.	
Bearing	Single Bearing	
Weight Complete Alternator	240.9 kg	
Weight Wound Stator	109.5 kg	
Weight Wound Rotor	93.1 kg	
Moment of Inertia	0.4355 kgm²	
Shipping weight in a Crate	289 kg	
Packing Crate Size	1050X570X960 mm	
Maximum Over Speed	2250 RPM for two minutes	
Bearing Drive End	N/A	
Bearing Non-Drive End	Ball Bearing, 6306-2RS1	



Three Phase Efficiency Curves

60Hz Curves

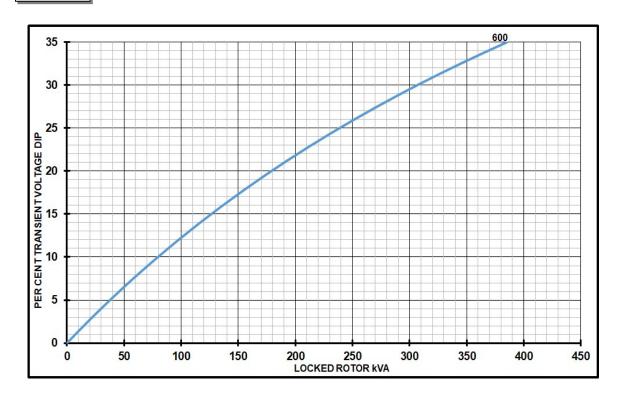




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Locked Rotor Motor Starting Curves

60Hz



Transient Voltage Dip Scaling Factor		Transient Voltage Rise Scaling Factor		
Lagging PF	Scaling Factor	Lagging PF	Scaling Factor	
<= 0.4	1.00	<= 0.4	1.25	
0.5	0.95	0.5	1.20	
0.6	0.90	0.6	1.15	
0.7	0.86	0.7	1.10	
0.8	0.83	> 0.7	1.00	
0.9	0.75			
0.95	0.70			

Note: To determine % Transient Voltage Dip or Rise at various PF, multiply the % Voltage Dip from the curve directly by the scaling factor.

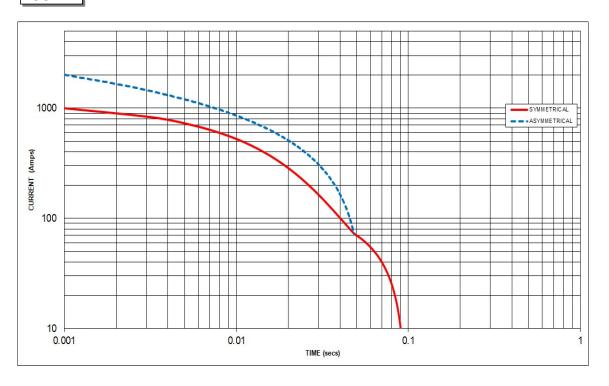
0.65

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Three-phase Short Circuit Decrement Curve

60Hz



Note 1 The following multiplication factors should be used to

adjust the values from curve between time 0.001 seconds and the minimum current point in respect of nominal operating voltage:

50Hz		60Hz	
Voltage	Factor	Voltage	Factor
-	-	600V	X 1.00
-	-	-	-
-	-	-	-
-	-	-	-

The sustained current value is constant irrespective of voltage level

Note 2

The following multiplication factor should be used to convert the values calculated in accordance with NOTE 1 to those applicable to the various types of short circuit:

i i			
	3-phase	2-phase L-L	1-phase L-N
Instantaneous	x 1.00	x 0.87	x 1.30
Minimum	x 1.00	x 1.80	x 3.20
Sustained	N/A	N/A	N/A
Max. sustained duration	10 sec.	5 sec.	2 sec.

All other times are unchanged

Note 3

Curves are drawn for Star connected machines under no-load excitation at rated speeds. For other connection the following multipliers should be applied to current values as shown:

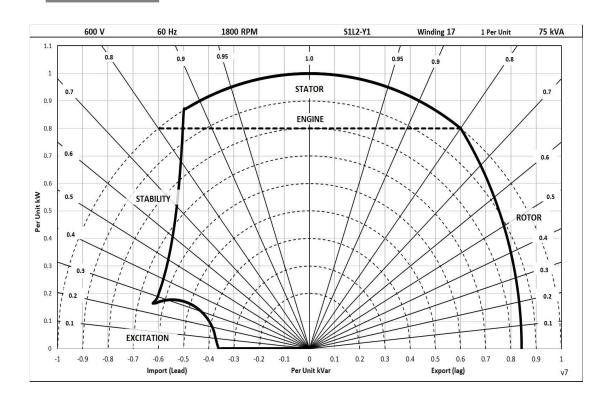
Parallel Star = Curve current value X 2

Series Delta = Curve current value X 1.732



Typical Alternator Operating Charts

600V/60Hz





RATINGS AT 0.8 POWER FACTOR

	Class - Temp Rise	Standby - 163/27°C	Standby - 150/40°C	Cont. H - 125/40°C	Cont. F - 105/40°C
50	Series Star (V)				
50 Hz	Parallel Star (V)	N/A	N/A	N/A	N/A
	Series Delta (V)				
	kVA				
	kW	N/A	N/A	N/A	N/A
	Efficiency (%)				, .
	kW Input				
			1		
60	Series Star (V)	600	600	600	600
Hz	Parallel Star (V)	300	300	300	300
'-	Series Delta (V)	346	346	346	346
	kVA	80.0	78.8	75.0	68.0
	kW	64.0	63.0	60.0	54.4
	Efficiency (%)	89.0	89.2	89.6	90.2
	kW Input	71.9	70.7	67.0	60.3

De-Rates

All values tabulated above are subject to the following reductions:

- 3% for every 500 meters by which the operating altitude exceeds 1000 meters above mean sea level
- 3% for every 5°C by which the operational ambient temperature exceeds 40°C
- For any other operating conditions impacting the cooling circuit please refer to applications

Note: Requirement for operating in an ambient exceeding 60°C and altitude exceeding 4000 meters must be referred to applications.

Dimensional and Torsional Drawing

For dimensional and torsional information please refer to the alternator General Arrangement and rotor drawings available on our website (http://stamford-avk.com/)

Note: Continuous development of our products means that the information contained in our data sheets can change without notice, and specifications should always be confirmed with Cummins Generator Technologies prior to purchase.







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For Applications Support: applications@cummins.com

For Customer Service: service-engineers@stamford-avk.com

For General Enquiries: info@cumminsgeneratortechnologies.com

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