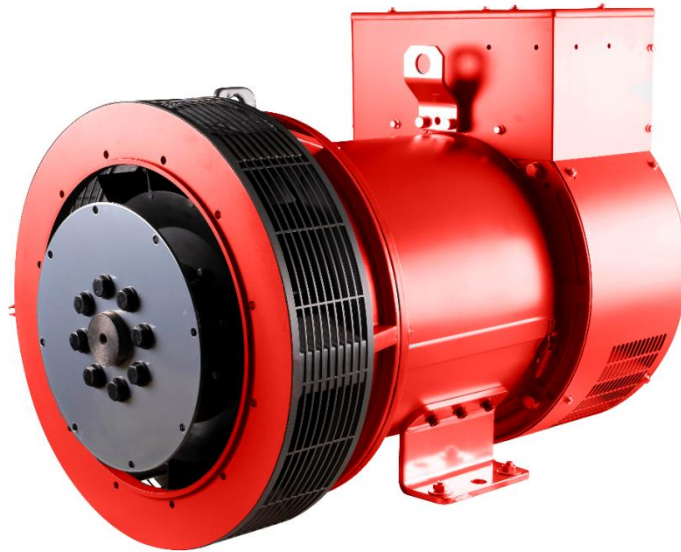


# STAMFORD®

N150G4 Wdg. 312/311

## N150G4 - Technical Data Sheet



STAMFORD® N range is the three-phase, four-pole synchronous AC generators of brushless design, providing optimized and reliable power for standby and other applications.

### Standards

STAMFORD® N range industrial alternators meet the requirements of IEC 60034-1 and ISO 8528-3.

### Quality Assurance

STAMFORD® N range alternators are designed, built, and tested to the quality assurance level of ISO9001.

### Excitation System

The excitation system is self-excited as standard with power being provided by the main stator via the digital Automatic Voltage Regulator (AVR) to the exciter stator.

The exciter rotor output is fed to the main rotor through a three-phase full wave bridge rectifier.

The digital Automatic Voltage Regulator is two-phase voltage sensed and will control the alternator output voltage to within  $\pm 1\%$ .

### Terminal Box

STAMFORD® N range alternators feature a main stator with six/twelve ends brought out to the terminal box, which is located at the non-drive end of the alternator. The terminal box contains the AVR and provides easily accessible wiring connection points.

### Shaft and Rotor

All STAMFORD® N range alternators are single bearing with applicable SAE engine interface housing and drive disc. The rotor poles are provided with damper cage as standard.

### Insulation/ Impregnation

All STAMFORD® N range generators utilize a Class H insulation system.

Every wound component is impregnated with materials and processes designed specifically to provide protection against the challenging environments often encountered in generator operation.

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## N150G4 - Technical Data Sheet

Technical Specifications	
Number of Phases	3
Number of Poles	4
Insulation System	Class H
Stator Winding	2/3 <sup>rd</sup> Pitch
Number of Leads	6/12
Winding Number	312/311
Nominal Ambient Temperature	-15 to 40 °C
IP Rating	IP23
Voltage Regulation	± 1%
Total Harmonic Distortion (THD)	No Load < 2.5%; Non-Distorting Balanced Linear Load < 5%
Excitation System	Brushless, Self-Excited
Regulator Type	DM730
Nominal Speed	1500RPM at 50Hz, 1800RPM at 60Hz
Overspeed	2250RPM
Bearing	Single Bearing
Weight	441 kg
Overload	110% of rated power for 1 hour in a 6-hour cycle
Electromagnetic Compatibility	EN61000-6-2, EN61000-6-4

### Electrical Ratings (0.8 – 1.0 PF)

Class – Temp Rise		Cont. H - 125/40°C			Standby - 150/40°C			Standby - 163/27°C		
<b>50 Hz</b>	Voltage	380	400	415	380	400	415	380	400	415
	Voltage P-star*	190	200	208	190	200	208	190	200	208
	kVA	145	150	150	153	159	159	160	165	165
	kW	116	120	120	122	127	127	128	132	132

Class – Temp Rise		Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
<b>60 Hz</b>	Voltage	380	416	440	480	380	416	440	480	380	416	440	480
	Voltage P-star*	190	208	220	240	190	208	220	240	190	208	220	240
	kVA	150	163	172	188	159	173	183	200	165	179	189	207
	kW	120	130	138	150	127	138	146	160	132	143	151	166

# STAMFORD®

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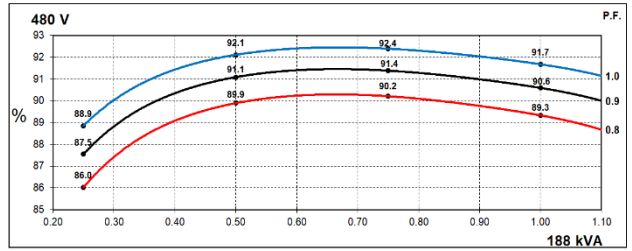
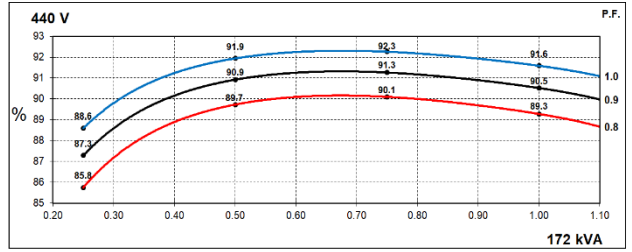
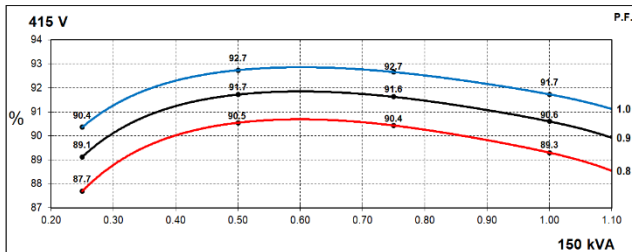
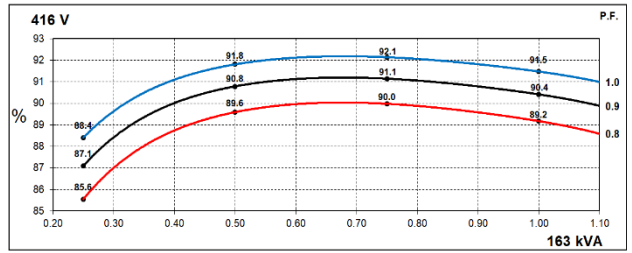
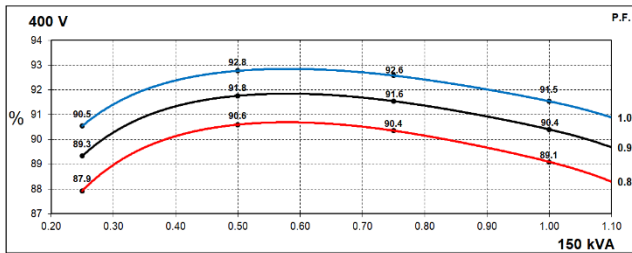
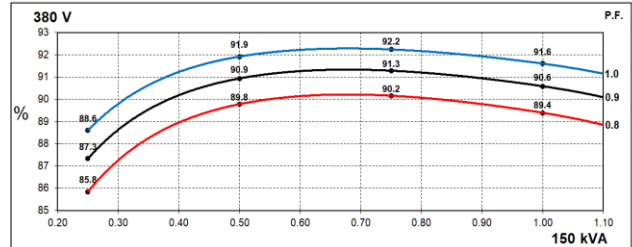
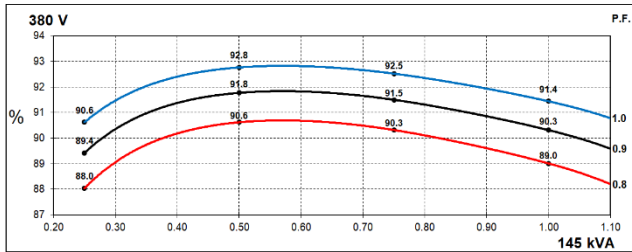
## N150G4 - Technical Data Sheet

\*P -star connection only available with 12 leads winding option

### Three Phase Efficiency Curves

50Hz

60Hz

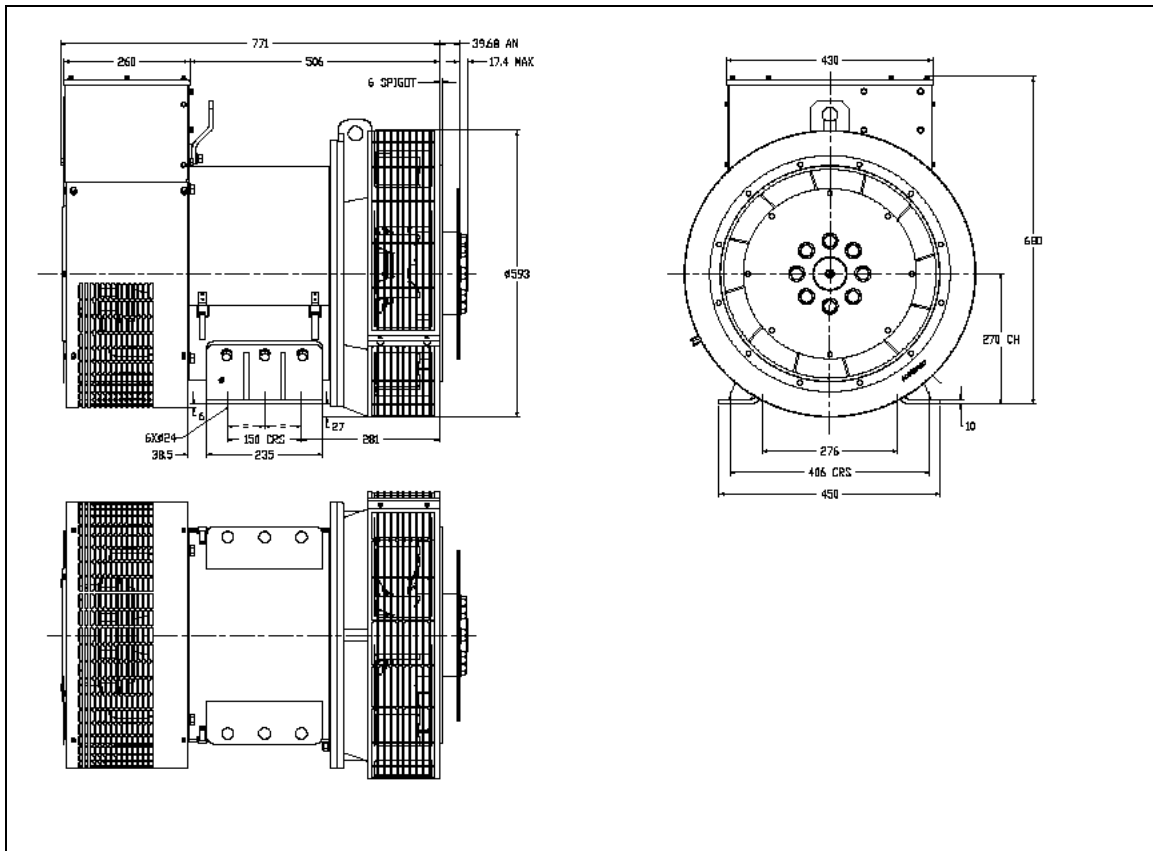


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## N150G4 - Technical Data Sheet

### Overall Dimensions



### Output Power De-rates

The output power ratings are subjected to the following ambient temperature de-rates:

- 3% for every 5°C by which the operational ambient temperature exceeds 40°C, up to max. 60°C

The output power ratings are subjected to the following altitude de-rates:

- 3% for every 500 meters by which the altitude exceeds 1000 meters above mean sea level.

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