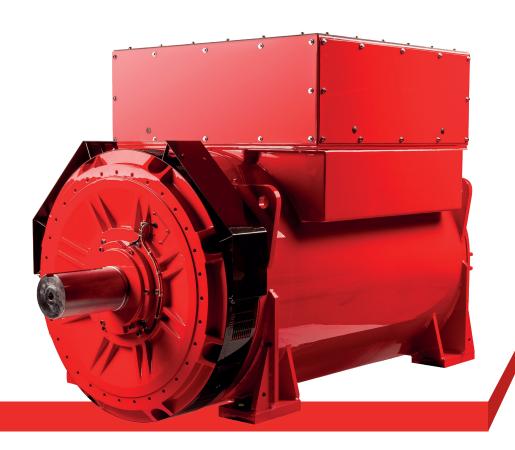
OUR DIFFERENCE? THE DETAIL.



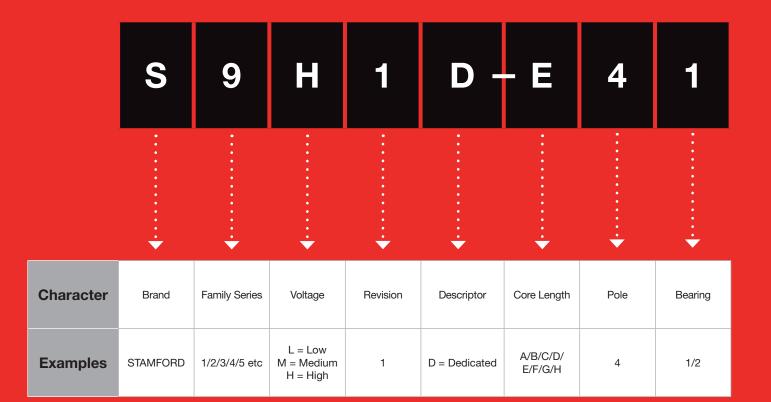




STAMFORD° S9

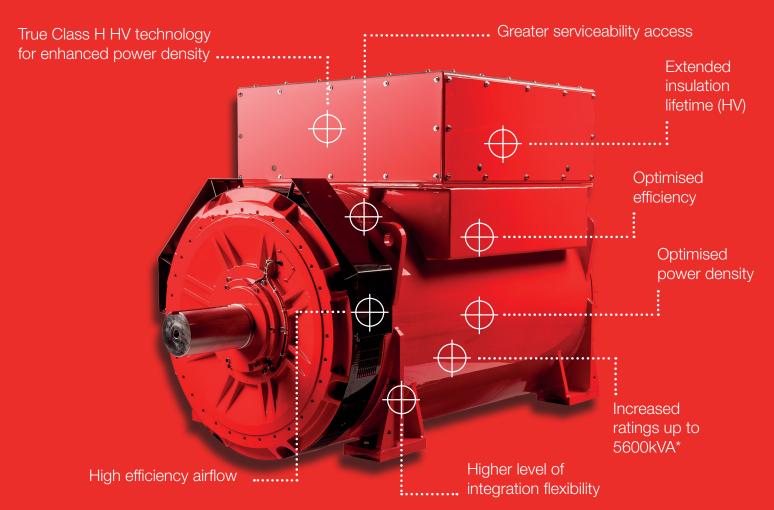
Fitted with CoreCooling™ technology

The S9 Nomenclature



STAMFORD S9 Dedicated





Product evolution through technological revolution.

Our new **CoreCooling**™ **technology** results in improved thermal performance and increased power density... it's in the detail.

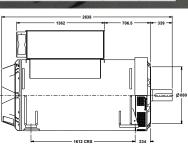
S9 Medium Voltage Dedicated Ratings 5/6th Pitch

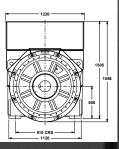
50Hz

Class F 105/40		
Winding Number	51*	
Volts	3300	
Model	kW	kVA
S9M1D-A4	1472	1840
S9M1D-B4	1751	2190
S9M1D-C4	1950	2438
S9M1D-D4	2134	2668
S9M1D-E4	2325	2907
S9M1D-F4	2737	3422
S9M1D-G4	3131	3915
S9M1D-H4	3385	4232

Class H 125/40		
Winding Number	51	
Volts	3300	
Model	kW	kVA
S9M1D-A4	1600	2000
S9M1D-B4	1904	2380
S9M1D-C4	2120	2650
S9M1D-D4	2320	2900
S9M1D-E4	2528	3160
S9M1D-F4	2976	3720
S9M1D-G4	3404	4255
S9M1D-H4	3680	4600

	Standby 150/40		1
	Winding Number	5	1
	Volts	33	00
NAME OF TAXABLE PARTY.	Model	kW	kVA
	S9M1D-A4	1712	2140
	S9M1D-B4	2037	2547
STATE OF THE PARTY OF	S9M1D-C4	2268	2836
	S9M1D-D4	2482	3103
1000	S9M1D-E4	2704	3381
	S9M1D-F4	3184	3980
Name of Street	S9M1D-G4	3642	4553
Name of Street	S9M1D-H4	3937	4922





60Hz

	Class F 105/40		
	Winding Number	5	1
NEEDS.	Volts	41	60
683	Model	kW	kVA
	S9M1D-A4	1840	2300
	S9M1D-B4	2082	2604
	S9M1D-C4	2318	2898
	S9M1D-D4	2598	3248
	S9M1D-E4	2870	3588
	S9M1D-F4	3308	4135
STATE OF THE PERSON	S9M1D-G4	3819	4775
Name of	S9M1D-H4	4121	5152

Class H 125/40		
Winding Number	5	1
Volts	41	60
Model	kW	kVA
S9M1D-A4	2000	2500
S9M1D-B4	2264	2830
S9M1D-C4	2520	3150
S9M1D-D4	2824	3530
S9M1D-E4	3120	3900
S9M1D-F4	3596	4495
S9M1D-G4	4152	5190
S9M1D-H4	4480	5600

Sta	ndb	y 15	0/40

51	
4160	
kW	kVA
2140	2675
2422	3028
2696	3371
3021	3777
3338	4173
3847	4810
4442	5553
4793	5992
	41 kW 2140 2422 2696 3021 3338 3847 4442

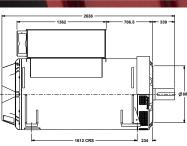
S9 Medium Voltage Dedicated Ratings 2/3rd Pitch

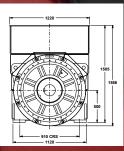
50Hz

Class F 105/40		
Winding Number	851*	
Volts	3300	
Model	kW	kVA
S9M1D-A4	1325	1656
S9M1D-B4	1344	1680
S9M1D-C4	1752	2190
S9M1D-D4	1950	2438
S9M1D-E4	2134	2668
S9M1D-F4	2325	2907
S9M1D-G4	2737	3422
S9M1D-H4	3132	3915

Class H 125/40		
Winding Number	851	
Volts	3300	
Model	kW	kVA
S9M1D-A4	1440	1800
S9M1D-B4	1680	2100
S9M1D-C4	1904	2380
S9M1D-D4	2120	2650
S9M1D-E4	2320	2900
S9M1D-F4	2528	3160
S9M1D-G4	2976	3720
S9M1D-H4	3404	4255

Standby 150/40		
Winding Number	8	51
Volts	33	00
Model	kW	kVA
S9M1D-A4	1541	1926
S9M1D-B4	1797	2247
S9M1D-C4	2037	2547
S9M1D-D4	2268	2836
S9M1D-E4	2482	3103
S9M1D-F4	2704	3381
S9M1D-G4	3184	3980
S9M1D-H4	3642	4553
THE RESERVE TO SERVE THE PARTY OF THE PARTY		ACCOUNT NAME OF THE PARTY OF





60Hz Class F 105/40

Class F 105/40		
Winding Number	851	
Volts	4160	
Model	kW	kVA
S9M1D-A4	1693	2116
S9M1D-B4	1913	2392
S9M1D-C4	2083	2604
S9M1D-D4	2318	2898
S9M1D-E4	2598	3248
S9M1D-F4	2870	3588
S9M1D-G4	3308	4135
S9M1D-H4	3820	4775

Class H 125/40		
Winding Number	851	
Volts	4160	
Model	kW	kVA
S9M1D-A4	1840	2300
S9M1D-B4	2080	2600
S9M1D-C4	2264	2830
S9M1D-D4	2520	3150
S9M1D-E4	2824	3530
S9M1D-F4	3120	3900
S9M1D-G4	3596	4495
S9M1D-H4	4152	5190

Standby 150/40		
Winding Number	88	51
Volts	41	60
Model	kW	kVA
S9M1D-A4	1969	2461
S9M1D-B4	2225	2782
S9M1D-C4	2422	3028
S9M1D-D4	2696	3371
S9M1D-E4	3021	3777
S9M1D-F4	3338	4173
S9M1D-G4	3848	4810
S9M1D-H4	4442	5553

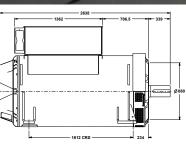
S9 High Voltage Dedicated Ratings 5/6th Pitch

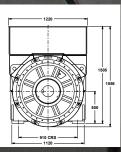
50Hz

Class F 105/40						
Winding Number	83*					
Volts	105	500	110	000		
Model	kW	kVA	kW	kVA		
S9H1D-A4	1380	1725	1400	1750		
S9H1D-B4	1649	2062	1692	2116		
S9H1D-C4	1851	2314	1851	2314		
S9H1D-D4	2090	2613	2090	2613		
S9H1D-E4	2400	3000	2400	3000		
S9H1D-F4	2741	3427	2741	3427		
S9H1D-G4	2988	3735	2988	3735		
S9H1D-H4	3312	4140	3312	4140		

Class H 125/40				
Winding Number		8	3	
Volts	10	500	110	000
Model	kW	kVA	kW	kVA
S9H1D-A4	1500	1875	1520	1900
S9H1D-B4	1800	2250	1840	2300
S9H1D-C4	2012	2515	2012	2515
S9H1D-D4	2272	2840	2272	2840
S9H1D-E4	2608	3260	2608	3260
S9H1D-F4	2980	3725	2980	3725
S9H1D-G4	3248	4060	3248	4060
S9H1D-H4	3600	4500	3600	4500

Standby 150/40		1				
Winding Number	83					
Volts	109	500	110	000		
Model	kW	kVA	kW	kVA		
S9H1D-A4	1604	2006	1626	2033		
S9H1D-B4	1926	2408	1968	2461		
S9H1D-C4	2152	2691	2152	2691		
S9H1D-D4	2431	3039	2431	3039		
S9H1D-E4	2790	3488	2790	3488		
S9H1D-F4	3188	3986	3188	3986		
S9H1D-G4	3475	4344	3475	4344		
S9H1D-H4	3852	4815	3852	4815		





60Hz

Class F 105/40						
Winding Number			9	1		
Volts	124	470	132	200	138	300
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-A4	1463	1829	1549	1936	1619	2024
S9H1D-B4	1766	2208	1865	2332	1950	2438
S9H1D-C4	1994	2493	2112	2640	2208	2760
S9H1D-D4	2186	2733	2314	2893	2419	3024
S9H1D-E4	2476	3096	2620	3275	2741	3427
S9H1D-F4	2804	3505	2966	3708	3102	3878
S9H1D-G4	3058	3823	3238	4048	3385	4232
S9H1D-H4	3323	4154	3518	4398	3680	4600

Class H 125/40								
Winding Number		91						
Volts	124	470	132	200	138	300		
Model	kW	kVA	kW	kVA	kW	kVA		
S9H1D-A4	1590	1988	1638	2104	1760	2200		
S9H1D-B4	1920	2400	2028	2535	2120	2650		
S9H1D-C4	2168	2710	2296	2870	2400	3000		
S9H1D-D4	2384	2980	2524	3155	2640	3300		
S9H1D-E4	2692	3365	2848	3560	2980	3725		
S9H1D-F4	3048	3810	3224	4030	3372	4215		
S9H1D-G4	3324	4155	3520	4400	3680	4600		
20H1D H4	2612	4515	3934	4780	4000	5000		

Standby 150/40								
Winding Number		91						
Volts	124	470	132	200	138	300		
Model	kW	kVA	kW	kVA	kW	kVA		
S9H1D-A4	1701	2172	1800	2251	1883	2354		
S9H1D-B4	2054	2568	2169	2712	2268	2836		
S9H1D-C4	2319	2900	2456	3071	2568	3210		
S9H1D-D4	2550	3189	2700	3376	2824	3531		
S9H1D-E4	2880	3601	3047	3809	3188	3986		
S9H1D-F4	3261	4077	3449	4312	3608	4510		
S9H1D-G4	3556	4446	3766	4708	3937	4922		
S0H1D-H/	3864	4831	4001	5115	4280	5350		

S9 High Voltage Dedicated Ratings 2/3rd Pitch

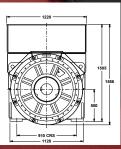
50Hz

Class F 105/40					
Winding Number	983*				
Volts	10	500	110	000	
Model	kW	kVA	kW	kVA	
S9H1D-A4	1124	1405	1178	1472	
S9H1D-B4	1466	1833	1494	1868	
S9H1D-C4	1722	2153	1722	2153	
S9H1D-D4	1844	2305	1844	2305	
S9H1D-E4	2082	2603	2082	2603	
S9H1D-F4	2390	2988	2390	2988	
S9H1D-G4	2731	3414	2731	3414	
S9H1D-H4	2976	3721	2976	3721	

Class H 125/40				. \			
Winding Number		983					
Volts	10	500	110	000			
Model	kW	kVA	kW	kVA			
S9H1D-A4	1222	1527	1280	1600			
S9H1D-B4	1600	2000	1624	2030			
S9H1D-C4	1872	2340	1872	2340			
S9H1D-D4	2012	2515	2012	2515			
S9H1D-E4	2272	2840	2272	2840			
S9H1D-F4	2608	3260	2608	3260			
S9H1D-G4	2980	3725	2980	3725			
S9H1D-H4	3248	4060	3248	4060			

Standby 150/40	193						
Winding Number		983					
Volts	10	500	110	000			
Model	kW	kVA	kW	kVA			
S9H1D-A4	1307	1634	1370	1712			
S9H1D-B4	1712	2140	1737	2172			
S9H1D-C4	2003	2504	2006	2508			
S9H1D-D4	2152	2691	2152	2691			
S9H1D-E4	2431	3039	2431	3039			
S9H1D-F4	2790	3488	2790	3488			
S9H1D-G4	3188	3986	3188	3986			
S9H1D-H4	3475	4344	3475	4344			

2638 706.5 339 0 888



60Hz

The State of the S						
Class F 105/40						
Winding Number			99	91		
Volts	124	470	132	200	138	300
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-A4	1130	1413	1197	1496	1251	1564
S9H1D-B4	1529	1912	1619	2024	1692	2116
S9H1D-C4	1766	2208	1865	2332	1950	2438
S9H1D-D4	1994	2493	2112	2640	2208	2760
S9H1D-E4	2186	2733	2314	2893	2419	3024
S9H1D-F4	2476	3096	2620	3275	2741	3427
S9H1D-G4	2804	3505	2965	3707	3102	3878
S9H1D-H4	3058	3823	3238	4048	3385	4232

Class H 125/40						
Winding Number			99	91		
Volts	124	470	132	200	138	300
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-A4	1229	1536	1301	1626	1360	1700
S9H1D-B4	1662	2078	1760	2200	1840	2300
S9H1D-C4	1920	2400	2028	2535	2120	2650
S9H1D-D4	2168	2710	2296	2870	2400	3000
S9H1D-E4	2384	2980	2524	3155	2640	3300
S9H1D-F4	2692	3365	2848	3560	2980	3725
S9H1D-G4	3048	3810	3224	4030	3372	4215
S9H1D-H4	3324	4155	3520	4400	3680	4600

Standby 150/40						
Winding Number	991					
Volts	12470 132		200	13800		
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-A4	1315	1644	1392	1740	1455	1819
S9H1D-B4	1779	2224	1883	2354	1968	2461
S9H1D-C4	2054	2568	2169	2712	2268	2835
S9H1D-D4	2320	2900	2456	3070	2568	3210
S9H1D-E4	2551	3189	2700	3376	2824	3531
S9H1D-F4	2880	3601	3047	3809	3188	3986
S9H1D-G4	3261	4077	3449	4312	3608	4510
S9H1D-H4	3556	4446	3766	4708	3937	4922

Specification

	Allegation			
MODEL	S9 Dedicated- MV	S9 Dedicated- HV		
Maximum continuous ratings at 50Hz (kVA) 125/40°C*	2000-4600	1875-4500		
Maximum continuous ratings at 60Hz (kVA) 125/40°C**	2500-5600	2200-5000		
Specifications				
Voltage Range	3300-4160	5500-13800		
Poles	4			
Technology	Bar Wound			
Application	Prime Power/Standby			
AVR	Digital			
Voltage Sensing	2 Phase			
Bearing Arrangement	Single/Double			
SAE Adaptors	SAE 0 / 00			
Centre Height	500			
Terminals	6			
Material Insulation Class	Н			
Excitation System	PMG			
Ingress Protection	IP23			
ingress Protection	IP54 Terminal Box			
Connection with other machines	Paralleling capability			
Bearings re-grease interval	Up to 3000 hours			
Temperature Monitoring	Winding RTDs			
Environmental Protection	Anti-Condensation Heater			
Optional Features				
Voltage Sensing	3 Phase	sensing		
Application	Gi	rid		
Centre Height	265, 349, 450			
Current Transformers	1, 2, 3 per phase			
Earth Fault Protection	Current Transformer			
Prime Movers				
Diesel Engine	•	/		
Gas Engine		/		

*MV - 50Hz 3300V Continuous 125/40°C (5/6th pitch) **MV - 60Hz 4160V Continuous 125/40°C (5/6th pitch)

*HV - 50Hz 10500V Continuous 125/40°C (5/6th pitch)

**HV - 60Hz 13800V Continuous 125/40°C (5/6th pitch)

Accessories

Factory Build Options
Anti-Condensation Heater
Quadrature Droop Kit
Bearing RTD (Each Bearing)
Air Inlet Filter
Drip Proof Louvres
Excitation Loss Module
Diode Failure Detector

Available With	DM110	DECS150	UNITROL
Current Sensing Kit	1	1	✓
Controlled Short Circuit	1	1	✓
Frequency Detection Module	1	1	✓
Power Factor Controller	1	1	1
Remote Control Interface	1	1	1
Dual AVR	X	X	X

Voltage Regulator Options	With PMG
no AVR	1
DM110	1
DECS100	1
DECS 150	1
UNITROL 1010	1
Deif DVC310	1



STAMFORD S9 - HV Class H



STAMFORD® S9 Class H insulation technology delivers high resistance to mechanical and thermal stresses through the use of the latest insulation system technologies.



Developed based on over 30 years of high voltage

NEWAGE® | STAMFORD® | AvK® product knowledge.



Extensive validation combined with the renowned S-Range 3 Year Warranty assures confidence in this Class H insulation system.

The benefits of Class H insulation system:

- ✓ Enhanced power density smaller in weight and length
- ✓ Increased insulation lifetime
- ✓ Proven robust and durable design
- ✓ Validated for continuous operation at Class H insulation temperatures

Applications



Contract Power launched **STAMFORD**® S9 to the fleet of eight **STAMFORD**® HVSI804R1 units for the 12 MW power plant at the Savannah Nickel Sulphide Mine, located in the East Kimberly Region of Western Australia. The Savannah Mine is one of the three mining projects in this region.

"The **STAMFORD**® alternators have proven very reliable over the years in our Mining installations. With the modifications made to the new S9, they now become even more serviceable for these remote locations."

- Contract Power Australia

Case Study Purpose:

Nickel Sulphide Mine

Location:

Western Region, Australia

Specified: STAMFORD® S9 HV





Customer Support Excellence

From pre-sales applications support all the way through to our extensive worldwide channel of customer service and authorised Parts and Service dealers servicing your **NEWAGE®I STAMFORD®I AvK®** alternators, we're there for you.

Selecting the right alternator for the right application? We understand the performance requirements that each application and operating environment demands.

Always Advancing—We also offer a comprehensive suite of Service Training courses designed to introduce, refresh, develop or expand your existing knowledge of NEWAGE®, STAMFORD® and AvK® genuine products.

For Application Support:

applications@cummins.com

For Customer Service:

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For more information visit us at stamford-avk.com









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Part No. PB S9 EN/HP Rev.4.1

