Alternator ref. Alternator type KH00260T KH00260TO4N



-GENERAL CHARACTERISTICS-

Voltage Type (V)	400/230	Altitude (m)	0-1000	
Number of Phase	Three phase	AVR Regulation	Yes	
Number of pole	4	Indication of protection	IP23	
Capacity for maintaining short circuit at 3 In for 10 s		Yes		
Winding type		Standard		

Efficiency & Power

Frequency (Hz)

50 Hz

Nominal voltage (V)

400

	Class H			Class F	Class B	
	125°C/ 40°C continuous	130°C/ 25°C standby	150°C/ 40°C standby	163°C/ 27°C standby	105°C/ 40°C continuous	80°C/ 40°C continuous
Nominal Rating(Kva)	8		8.3	8.8	7.5	6.4
Nominal Rating(KW)	6.4		6.6	7	6	5.1
Efficiency 100%	83.7		83.6	83.4	84.3	84.1

-ELECTRICAL CHARACTERISTICS-

Voltage regulation at established rating (+/- %) Insulation class T° class (H/125°), continuous 40°C T° class (H/163°C), standby 27°C Wave form : NEMA=TIF Unbalanced load acceptance ratio (%) Number of wires Total Harmonic Distortion in no-load DHT (%) Wave form : CEI=FHT Total Harmonic Distortion, on linear load DHT (%) Technology L-L Harmonic Maximum - Single (%) Deviation Factor (%) Shaft Current	1 H H / 125°K H / 163°K <45 100 12 27 <2 28 Brushless <3 6 <80
Main Stator Capacitance to ground (mdf)	<80
Reactances	
Direct axis synchro reactance unsaturated (Xd) (%)	186.6
Direct axis transcient reactance saturated (X'd) (%)	14.3
Direct axis subtranscient reactance saturated (X"d) (%)	10.3
Quadra axis synchro reactance unsaturated (Xq) (%)	61.6
Quadra axis subtranscient reactance saturated (X"q) (%)	56
Zero sequence reactance unsaturated (Xo) (%)	5.8
Negative sequence reactance saturated (X2) (%)	14.1
Short circuit ratio	
Short circuit ratio (Kcc)	0.8

3.351412E+10-B

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Alternator ref.	KH00260T
Alternator type	KH00260TO4N

Subtranscient time constant (T"d) (ms)11Short circuit transcient time constant (T'd) (ms)17Open circuit time constant (T'do) (ms)730Subtranscient time constant (T"q) (ms)8Leakage stator reactance (Xa)(%)5.9Stator Resistance (Ra)(%)0.036Armature time constant (Ta) (ms)12	Alternator type	KH00200104N		
Short circuit transcient time constant (T'd) (ms)17Open circuit time constant (T'do) (ms)730Subtranscient time constant (T"q) (ms)8Leakage stator reactance (Xa)(%)5.9Stator Resistance (Ra)(%)0.036				
Short circuit transcient time constant (T'd) (ms)17Open circuit time constant (T'do) (ms)730Subtranscient time constant (T"q) (ms)8Leakage stator reactance (Xa)(%)5.9Stator Resistance (Ra)(%)0.036			4.4	
Open circuit time constant (T'do) (ms)730Subtranscient time constant (T"q) (ms)8Leakage stator reactance (Xa)(%)5.9Stator Resistance (Ra)(%)0.036			11	
Subtranscient time constant (T"q) (ms)8Leakage stator reactance (Xa)(%)5.9Stator Resistance (Ra)(%)0.036	Short circuit transcient t	ime constant (T'd) (ms)	17	
Leakage stator reactance (Xa)(%)5.9Stator Resistance (Ra)(%)0.036	Open circuit time consta	ant (T'do) (ms)	730	
Stator Resistance (Ra)(%) 0.036	Subtranscient time cons	tant (T"q) (ms)	8	
	Leakage stator reactance	e (Xa)(%)	5.9	
Armature time constant (Ta) (ms) 12	Stator Resistance (Ra)(%	6)	0.036	
	Armature time constant	: (Ta) (ms)	12	

0.29
0.8
12.6
1246
285
0.636
7.141
15.71
1.453
200
21.1
14.17

Additional electrical characteristics-

Winding X1, X2 auxiliary resistance (for 20° ambient) (Ω)	3.9
Auxiliary winding X1, X2 excitation voltage at no load (V)	177
Auxiliary winding X1, X2 excitation voltage on load (V)	183
Winding Z1, Z2 auxiliary resistance (for 20° ambient) (Ω)	
Auxiliary winding Z1, Z2 excitation voltage at no load (V)	

-MECHANICAL CHARACTERISTICS-

Number of bearing	1
Overspeed (rpm)	2250
Coupling	Direct

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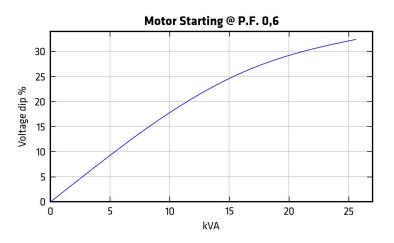


KH00260TO4N

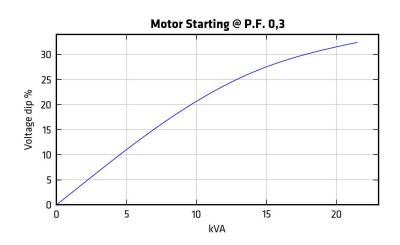


-TECHNICAL CURVES-

Motor starting curve locked rotor (0,6PF)



Motor starting curve locked rotor (0,3PF)



Alternator ref. Alternator type KH00260T KH00260TO4N



Efficiencies curve (by excitation system)



Loading curve (by excitation system)



Alternator ref. Alternator type KH00260T KH00260TO4N



Short circuit curve at no load and rated speed

Influence due to connection

Curves shown are for star (Y) connection For other connections, use the following multiplication factors :

- Series to Parallel star : current value x 2
- Series to Series delta : current value x 1.72
- Series star to Parallel delta : current value x 3.44

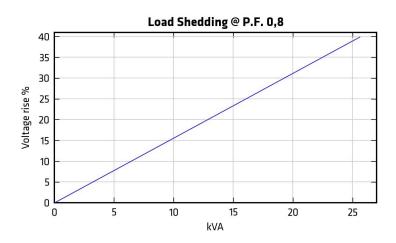
Influence due to short-circuit

The indicated coefficient have to be used to correct the three phase short circuit curves values as a function of the type of short circuit voltage.

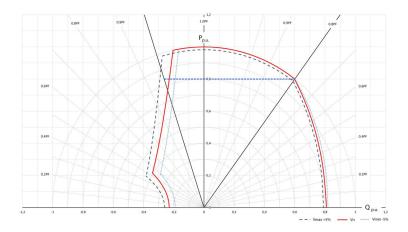
Alternator ref. Alternator type KH00260T KH00260TO4N



Rejection curve (by excitation system)



Capability curve (PQ diagram)

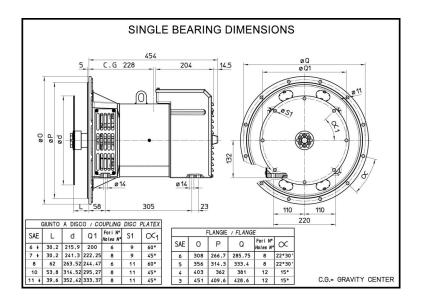


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DIMENSIONS-

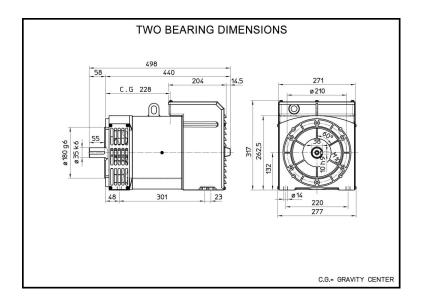
Overall dimension drawing (Single bearing)



Alternator ref. Alternator type KH00260T KH00260TO4N



Overall dimension drawing (Two bearings)

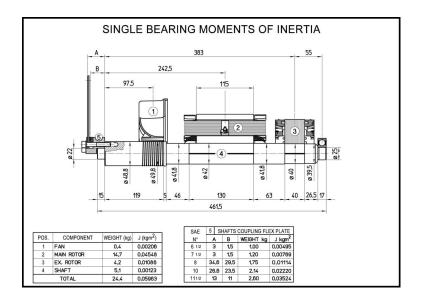


Alternator ref. Alternator type KH00260T KH00260TO4N



-TORSIONAL ANALYSIS DATA-

Rotation part drawing for torsional vibration calculation (Single bearing)



Alternator ref. Alternator type KH00260T KH00260TO4N



Rotation part drawing for torsional vibration calculation (Two bearings)

