



ALTERNATOR E1E13M E

single-phase synchronous alternator with brushes and avr - 2 poles

Technical Data Sheet

E1E13M E

COMMON DATA

Rated Power at 50Hz	kVA	18
Rated Power at 60Hz	kVA	21.6
Rated Power Factor		1
Nominal Temperature	°C	40
Control System		self excited
Execution		with brushes
Regulation Type		avr
Insulation Class		H
Protection		IP21
Maximum Overspeed	rpm	4500
Overload		110% of rated power for one hour in a cycle of 6 hours
Air Flow Requirement	m ³ /min	9 at 50Hz 10.8 at 60Hz
R.F.I. Suppression		Standard EN55011

REGULATION DATA

AVR	HVR11E
Sensing	single-phase
Voltage Regulation	±1%

WINDING DATA

Stator Winding	Single layer with auxiliary winding
Rotor Winding	with damping cage
Number of Leads of Stator	4
Stator Winding Resistance	0.18 at 20°C
Rotor Winding Resistance	14 at 20°C
THD at full load	<4%
THD at no load	<4%
Excitation at no load	A _{DC} 2.1
Excitation at full load	A _{DC} 5.4

STANDARD

References	EN60034-1 ISO8528-3 EN55011
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E1E13M E

ELECTRICAL DATA

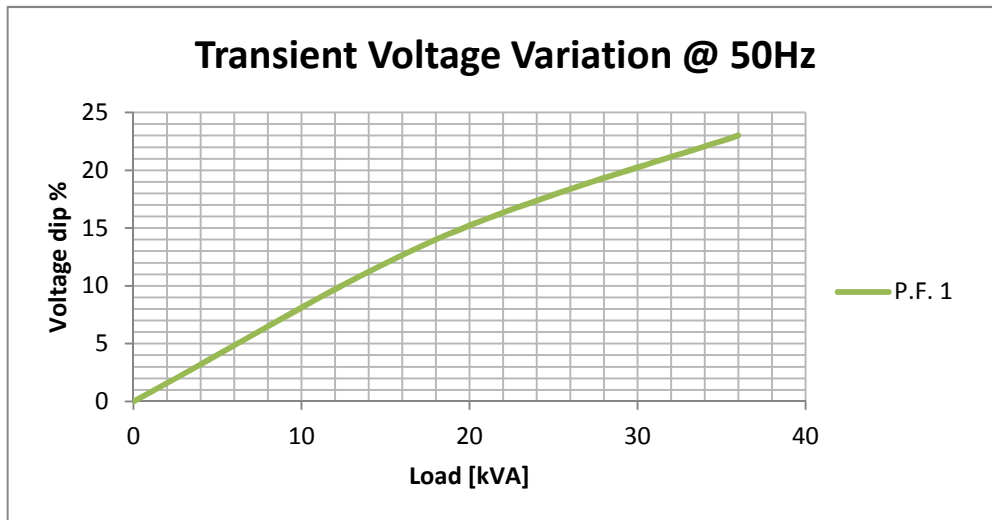
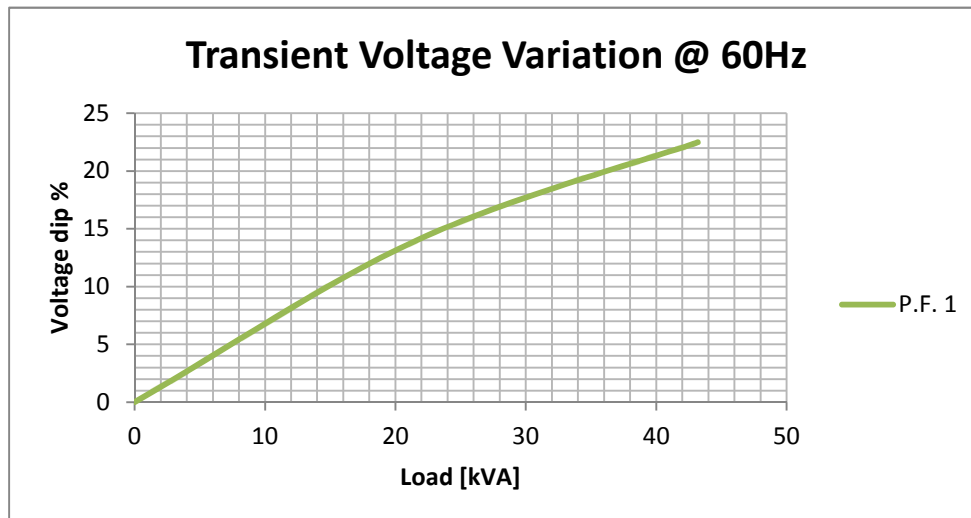
Frequency		50Hz - 3000rpm			60Hz - 3600rpm		
Voltage Series Star	V		115/230			110/220	
Rated Power in Class H (125°C/40°C)	kW		18			21.6	
Rated Power in Class F (105°C/40°C)	kW		16.5			19.7	

EFFICIENCY IN CL. H

4/4		83.0%			83.6%	
3/4		83.5%			84.0%	
2/4		81.2%			81.8%	
1/4		80.2%			81.8%	

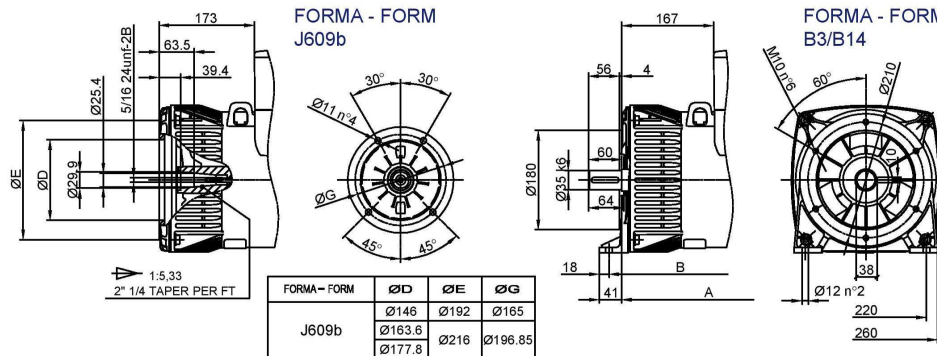
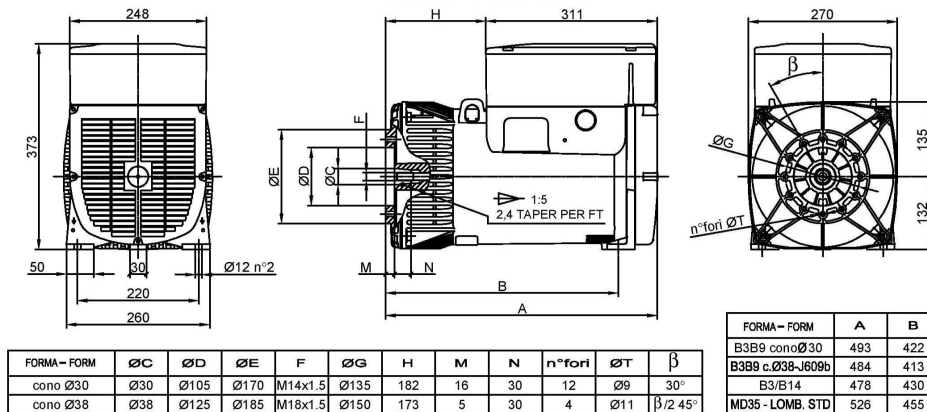
MECHANICAL DATA

Bearing non drive end			6305-2Z-C3
Bearing drive end (B3/B14 form)			6208-2Z-C3
Weight of generator	in B2	kg	\
	in B3/B14	kg	91.6
	in B3/B9	kg	88.7

E1E13M E**TRANSIENT VOLTAGE VARIATION 50Hz****TRANSIENT VOLTAGE VARIATION 60Hz**

E1E13M E

FORMA - FORM B3/B9



FORMA - FORM MD35

FORMA - FORM LOMBARDINI STD

