

TECHNICAL DATA SHEET



ALTERNATOR SPE10M G

Single-Phase synchronous alternator with brushes and AVR - 2 poles

SPE10M G

COMMON DATA

Rated Power at 50Hz	kVA	4,5
Rated Power at 60Hz	kVA	5,4
Rated Power Factor		1
Nominal Temperature	°C	40
Control System		self-excited
Execution		with brushes
Regulation Type		AVR
Insulation Class		H
Protection		IP21
Maximum Over speed	rpm	4500
Overload		110% of rated power for one hour in a cycle of 6 hours
Air Flow Requirement	m ³ /min	3,7 at 50Hz 4,8 at 60Hz
R.F.I. Suppression		Standard EN55011

REGULATION DATA

AVR	HVR10E
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	2
Stator Winding Resistance	Ω 1,2 at 20°C
Rotor Winding Resistance	Ω 8,8 at 20°C
THD at full load	<5,5%
THD at no load	<5%
Excitation at no Load	Adc 1,5
Excitation at full Load	Adc 4,7

STANDARD

References	EN60034-1 ISO8528-3 EN55011
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SPE10M G

ELECTRICAL DATA

Frequency		50Hz - 3000rpm	60Hz - 3600rpm
Voltage Series Star	V	230	220
Rated Power in Class H (125°C/40°C)	kW	4,5	5,4
Rated Power in Class F (105°C/40°C)	kW	4,1	5,0

EFFICIENCY IN CL. H

4/4	76,0%	77,5%
3/4	77,0%	78,0%

MECHANICAL DATA

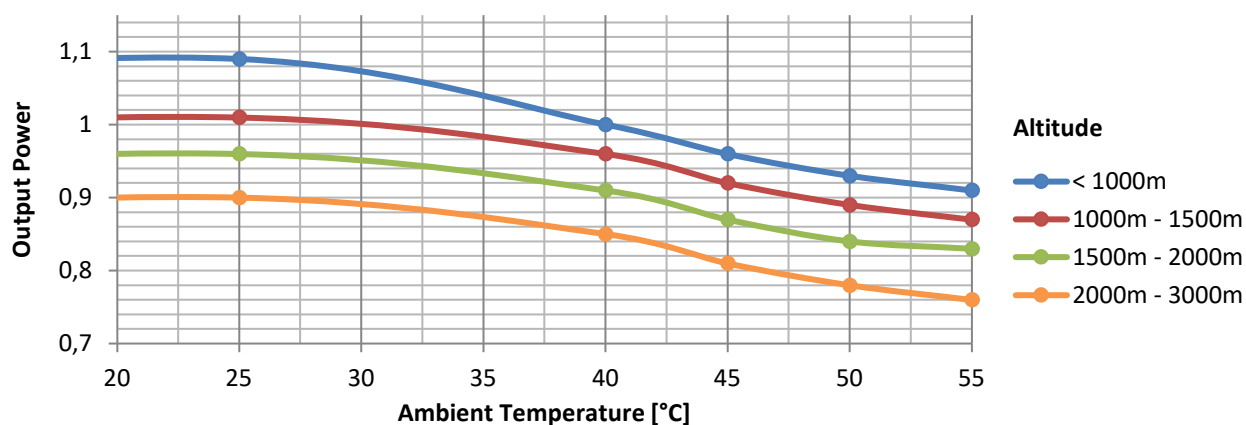
Bearing non drive end			6204-2Z-C3
Bearing drive end (B3/B14 form)			\
Weight of generator	in B2	kg	\
	in B3/B14	kg	\
	in B3/B9	kg	21,3

SPE10M G

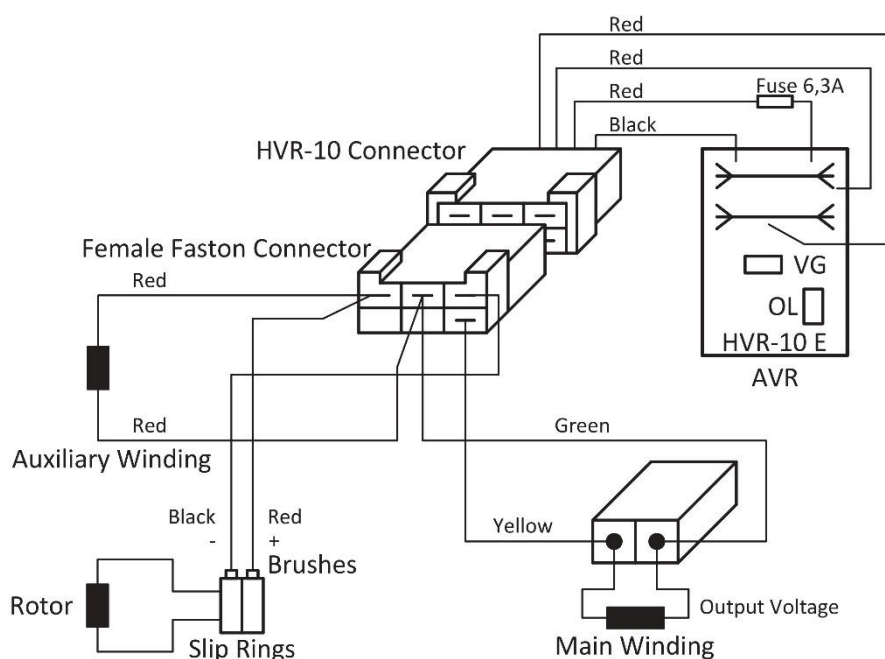
MOMENT OF INERZIA

B3/B9	kg·m ²	0,014
B3/B14	kg·m ²	\

DERATING CURVES



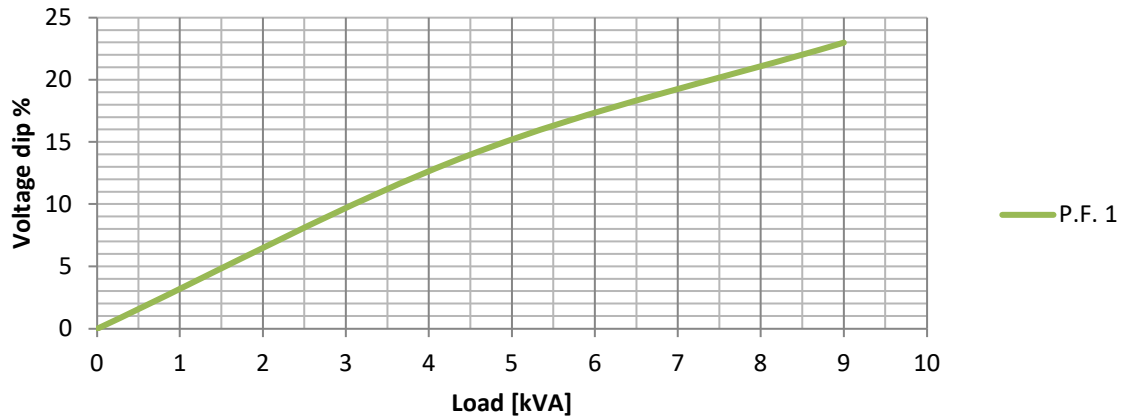
WIRING DIAGRAM



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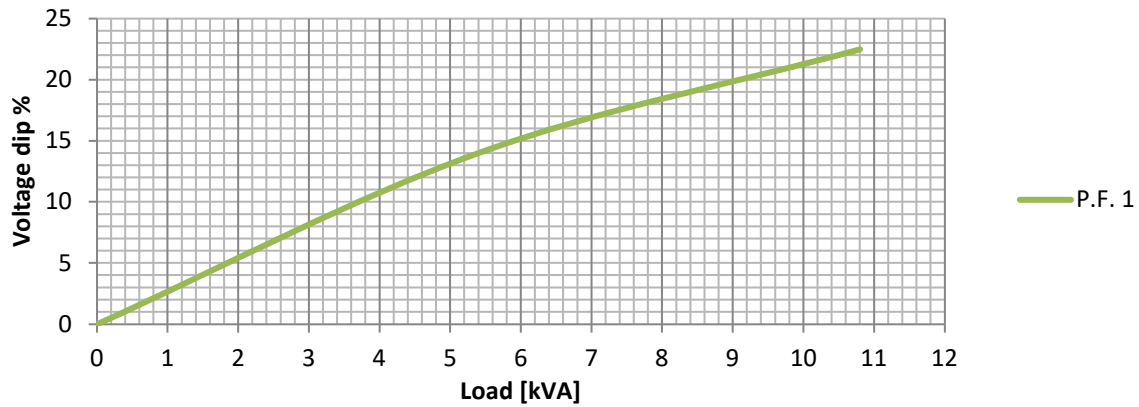
TRANSIENT VOLTAGE VARIATION 50Hz

Transient Voltage Variation @ 50Hz



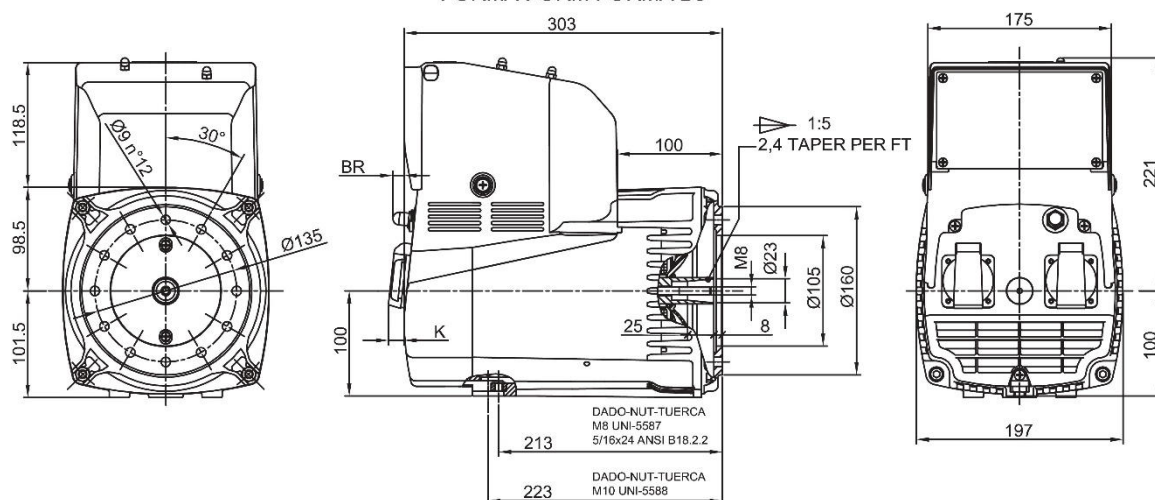
TRANSIENT VOLTAGE VARIATION 60Hz

Transient Voltage Variation @ 60Hz

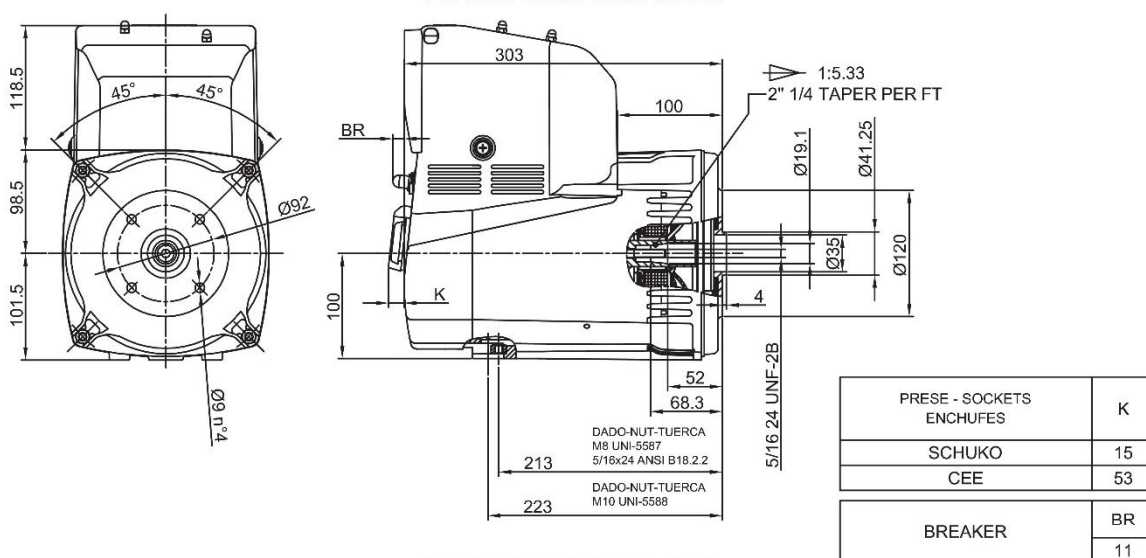


SPE10M G

FORMA FORM FORMA B9



FORMA FORM FORMA J609a



FORMA FORM FORMA J609b

