

TECHNICAL DATA SHEET



**ALTERNATOR E1W13M/4 250DC**

*DC brushless welder*

## E1W13M/4 250DC

### COMMON DATA

Rated Power at 50Hz	kVA	11
Rated Power at 60Hz	kVA	13,2
Rated Power Factor		0,8
Nominal Temperature	°C	40
Control System		self-excited
Execution		brushless
Insulation Class		H
Protection		IP21
Maximum Over speed	rpm	2250
Overload		110% of rated power for one hour in a cycle of 6 hours
Air Flow Requirement	m <sup>3</sup> /min	4,3 at 50Hz      5,2 at 60Hz
R.F.I. Suppression		Standard EN55011

### REGULATION DATA

Regulation		SG132
Sensing		Single-Phase
Voltage Regulation		±1%

### WINDING DATA

Rotor Winding		with damping cage
Number of Leads of Stator		6
Stator Winding Resistance	Ω	1,01 at 20°C
Rotor Winding Resistance	Ω	9,46 at 20°C
Exciter Stator Resistance	Ω	16,5 at 20°C
Exciter Rotor Resistance	Ω	2,15 at 20°C

### STANDARD

References		EN60034-1 ISO8528-3 EN55011
------------	--	-----------------------------

## E1W13M/4 250DC

### ELECTRICAL DATA

No load voltage	$V_{AC}$	80
Welding voltage	$V_{AC}$	20-30
Regulation range	$A_{AC}$	35-250
Max. current at 35%	$A_{AC}$	250
Max. current at 60%	$A_{AC}$	195
Max. current at 100%	$A_{AC}$	150
Stator Winding Resistance	$\Omega$	0,034 at 20°C
Electrodes type		basic; cellulosic; inox, rutile
Electrodes diameter	mm	1 - 5

### MECHANICAL DATA

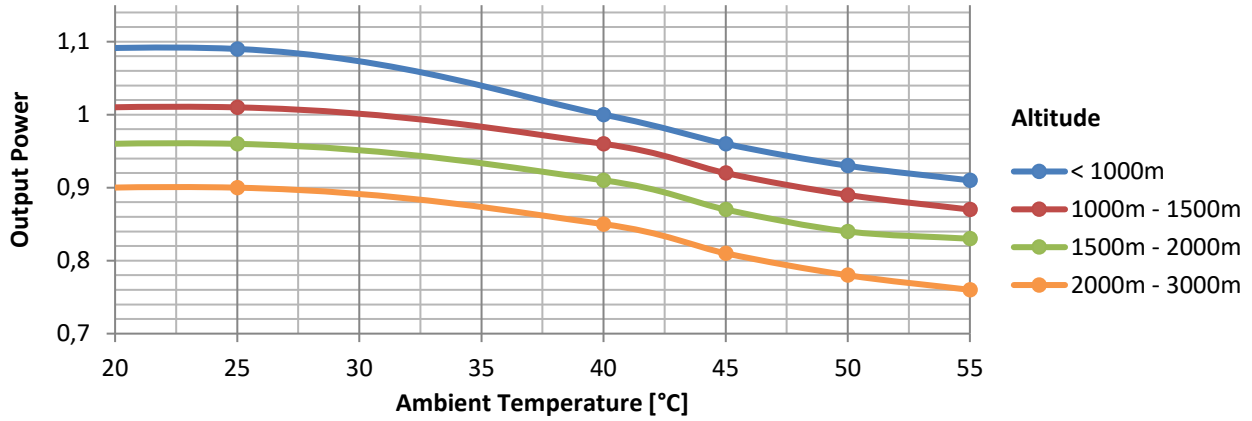
Bearing non drive end		6305-2Z-C3	
Bearing drive end (B3/B14 form)		6208-2Z-C3	
Weight of generator	in B2	kg	108
	in B3/B14	kg	103,9
	in B3/B9	kg	\

### MOMENT OF INERZIA

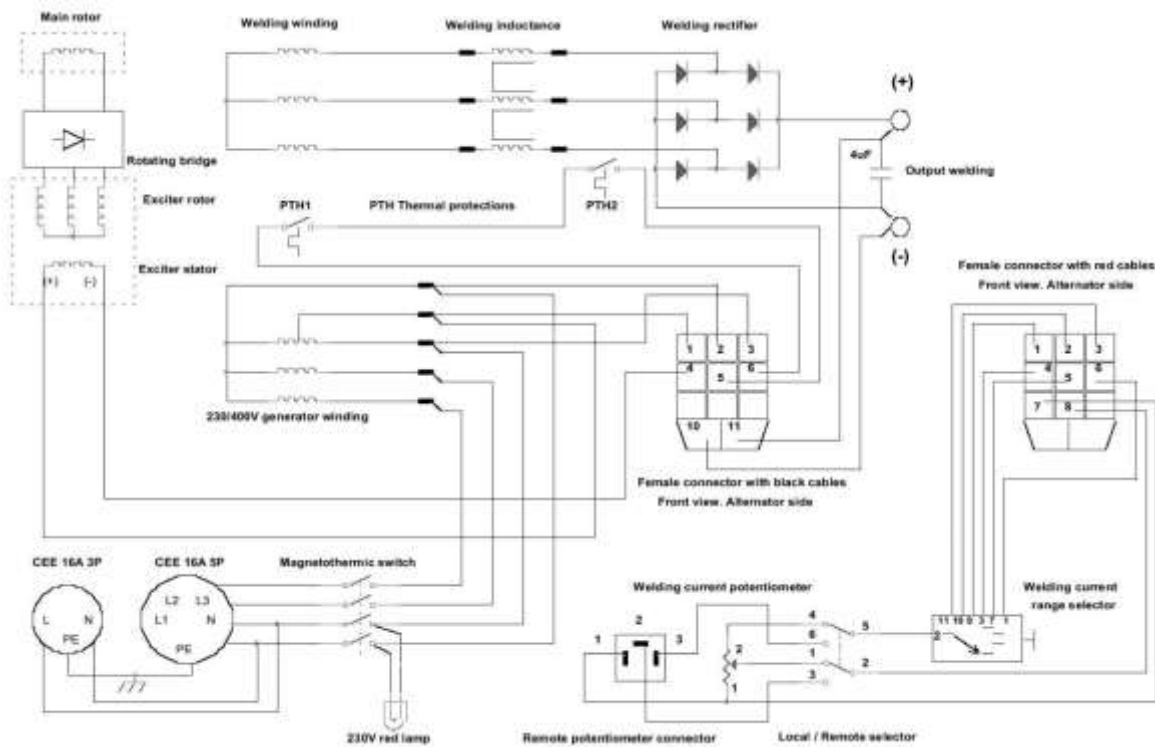
B3/B9	$kg \cdot m^2$	\
SAE 7½	$kg \cdot m^2$	0,091
SAE 8	$kg \cdot m^2$	0,091
SAE 10	$kg \cdot m^2$	0,091
SAE 11½	$kg \cdot m^2$	0,091
SAE 14	$kg \cdot m^2$	\
SAE 18	$kg \cdot m^2$	\
B3/B14	$kg \cdot m^2$	0,088

# E1W13M/4 250DC

## DERATING CURVES

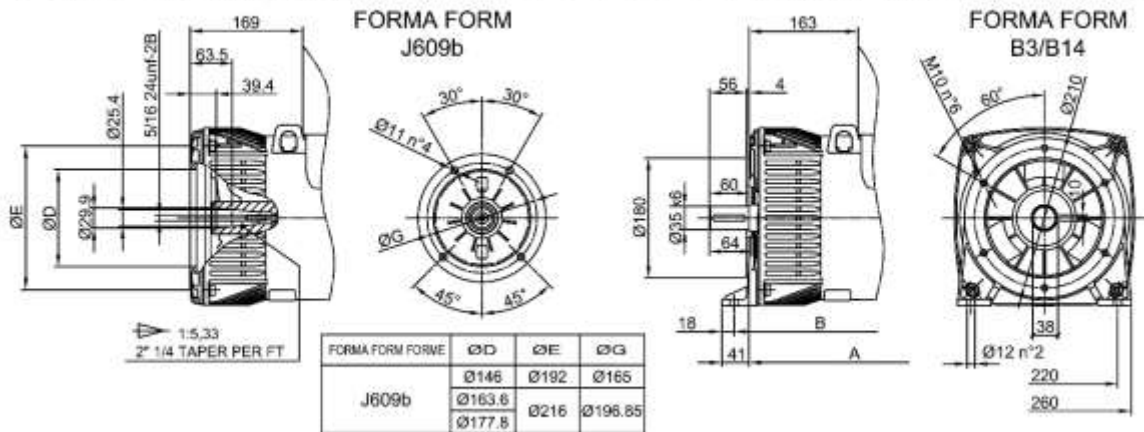
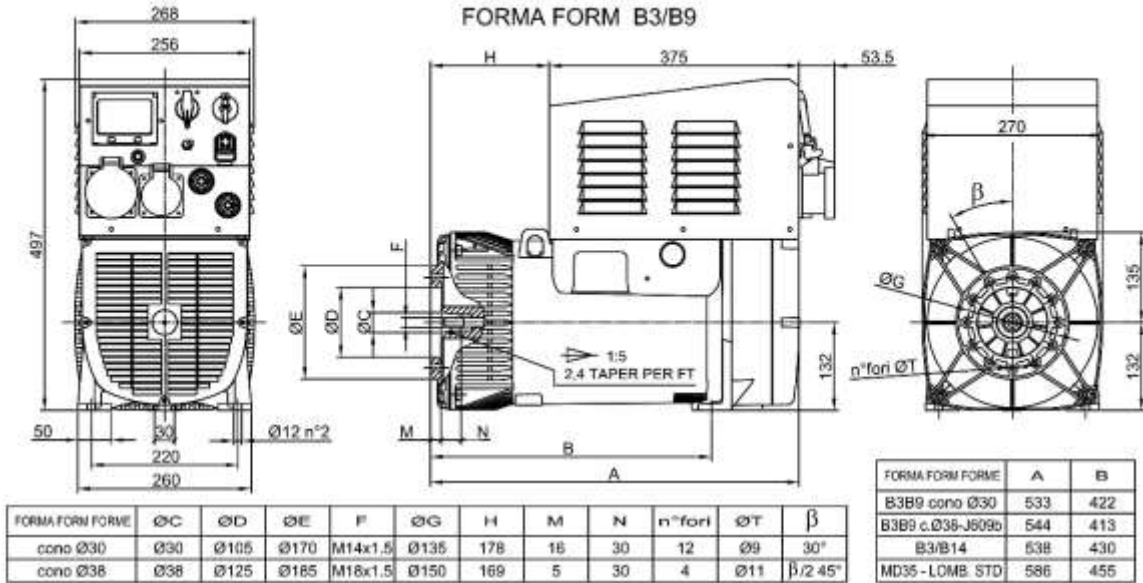


## WIRING DIAGRAM

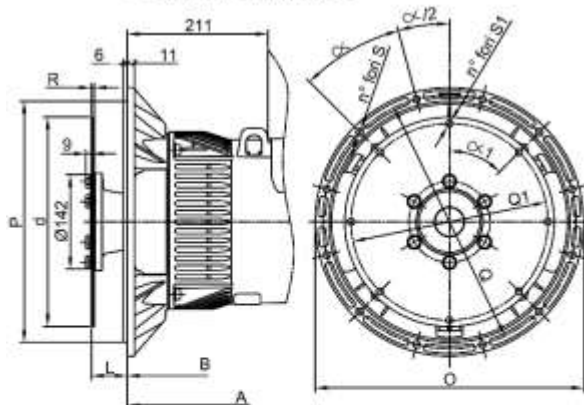


# E1W13M/4 250DC

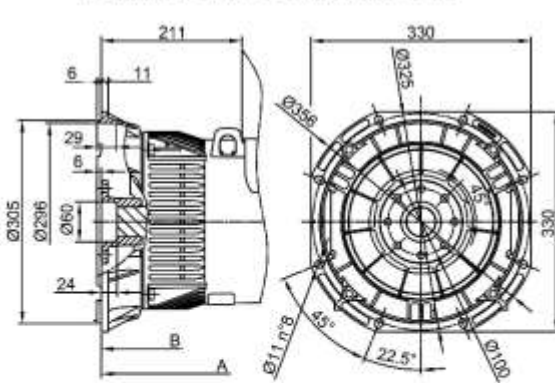
## DIMENSIONI D'INGOMBRO E1W13M DC - E1W13M DC OVERALL DIMENSIONS FORMA FORM B3/B9



### FORMA FORM MD35



### FORMA FORM LOMBARDINI STD



SAE N.	FLANGE - FLANGES						GIUNTI A DISCO - COUPLING DISCS							
	O	P	Q	n. fori	S	ØC	N.	L	d	Q1	n. fori	S1	ØC1	R
5	356	314.3	333.4	8		45°	6 1/2	30.2	215.9	200	6	9	60°	3
4	403	362	381	12	11	30	7 1/2	30.2	241.3	222.25	8	9	45°	
3	451	409.6	428.6	12		30	8	62	263.52	244.47	6	10.5	60°	4.5
							10	53.8	314.32	295.27	8	10.5	45°	
							11 1/2	39.6	352.42	333.37	8	10.5	45°	