

PMG-I 1ph

Permanent Magnet Generator
+ Single-phase AC Inverter + EMC Filter
+ Actuator Kit



PMG-I

This **variable speed system** consists of a PMG (Permanent Magnet Generator), a single-phase inverter (with **AC output** and EMC filter) and a linear actuator to regulate the engine revolutions. Adaptable to the engine models and interfacing with the control units by all the main brands, **PMG-I** represents a highly customizable solution for a compact and efficient AC generating set. Plus the advantage of having **NSM** as your sole partner for a complete and fully integrated ready-to-use system.

The main objective of the **PMG-I** is to produce electrical energy with constant frequency and voltage, independently from the type of load ($\cos\phi$) and the engine speed.

Technical characteristics

Standard voltage

50Hz: 110÷130Vac alternatively* 220÷240Vac
60Hz: 110÷130Vac alternatively* 220÷240Vac

*set with handheld programmer

rpm Range (see data chart) every PMG is made to work within a single rpm range

Insulation class H

Protection

IP 21 (PMG)
IP 20 (inverter 3kVA)
IP 00 (inverter 6kVA-10kVA)*
* optional: cover IP 20

T.H.D. < 4% (110-130Vac)
< 2% (220-240Vac)

Voltage accuracy $\pm 2\%$

Communication ports RS232 / RS485

Operating temperature -10° C / +40° C

Safety features:

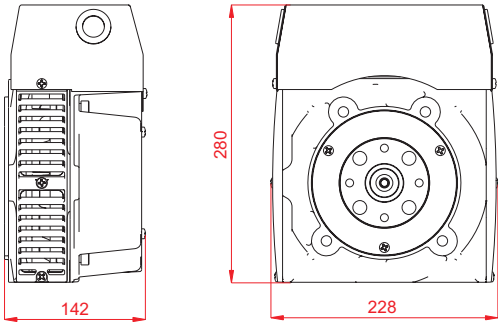
- Output short circuit protection
- IGBT short circuit protection
- Thermal protection (max heatsink temperature 100° C)
- Under and over-voltage input and output protection
- Automatic max output current derating in function of the temperature

Model	Output Power	Efficiency	rpm Range	Weight				
				PMG		Inverter	EMC Filter	Actuator
	1 ph	(PMG + inverter)		cone	SAE			
	[kVA]	$\eta\%$	[rpm]	[kg]	[kg]	[kg]	[kg]	[kg]
PMG-I 1ph 150SB	3,0	0,87	2000 ÷ 3000 2400 ÷ 3600	10,5	---	5,5	1,3	1,6
PMG-I 1ph 150SC	6,0	0,87	2000 ÷ 3000 2400 ÷ 3600	11,5	---	10,0	2,0	1,6
PMG-I 1ph 185SC	10,0	0,87	2000 ÷ 3000 2400 ÷ 3600	16,5	15,5	10,0	3,0	1,6
PMG-I 1ph 185SF	10,0	0,88	1700 ÷ 2400 1900 ÷ 2700	20,5	19,5	10,0	3,0	1,6

Overall Dimensions

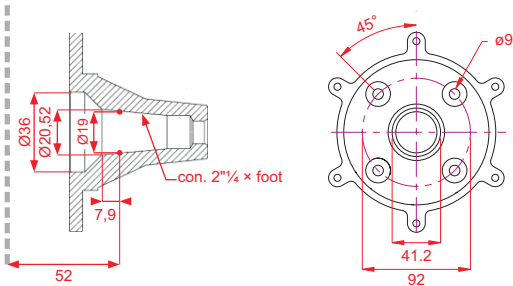
CONE

PMG 150

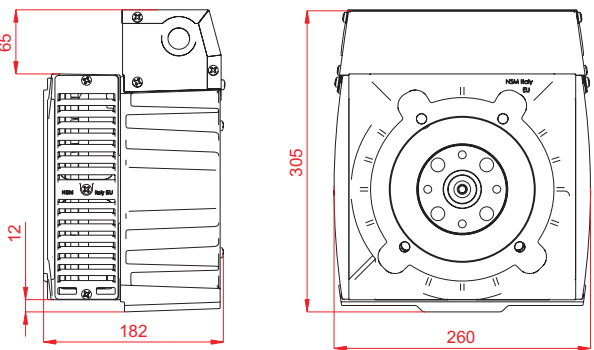


J609a

C 19

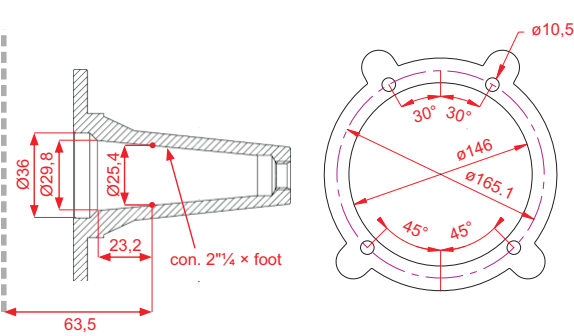


PMG 185



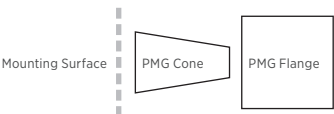
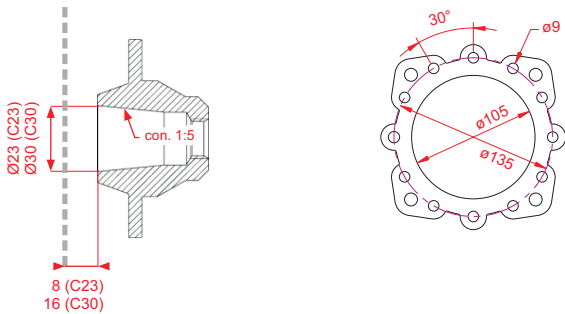
J609b

C 25,4
C 35



C 23

C 30

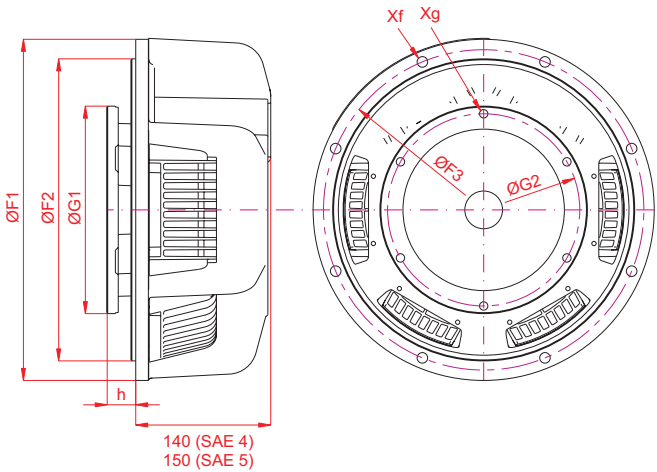


Cone	J609a	J609b	C 23	C 30
PMG 150	x	x	x	
PMG 185		x	x	x

Overall Dimensions

SAE

PMG 185

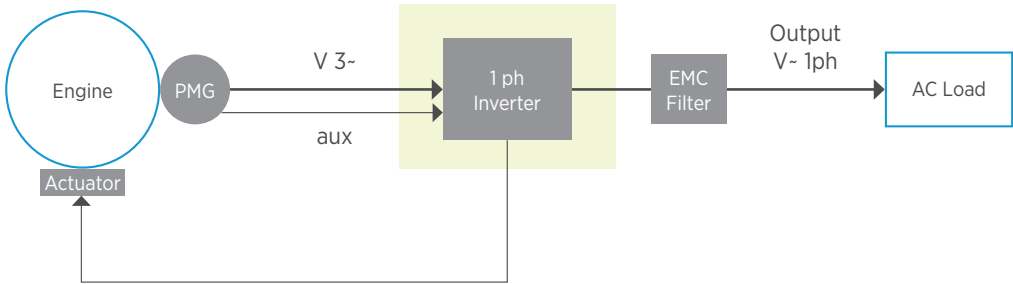


SAE	Flange			
	$\varnothing F1$	$\varnothing F2$	$\varnothing F3$	Xf
	[mm]			
5	363	314,33	333,4	$\varnothing 11$ (8)
4	403	361,95	381,0	$\varnothing 11$ (12)

SAE	Joint			
	$\varnothing G1$	$\varnothing G2$	h	Xg
	[mm]			
6,5	215,9	200,02	30,2	$\varnothing 9$ (6)
7,5	241,3	222,25	30,2	$\varnothing 9$ (8)

Block Diagram

PMG-I 1ph

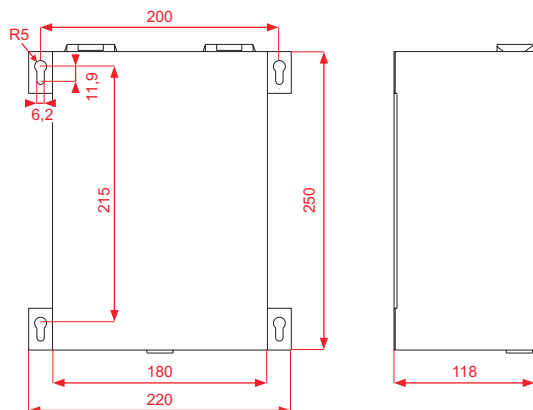


- Supplied by NSM as standard
- Power connection
- Signal/communication connection

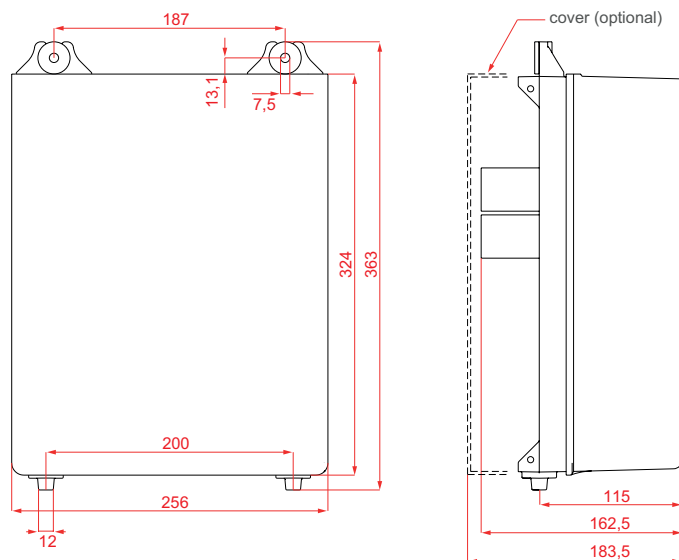
Overall Dimensions

Inverter

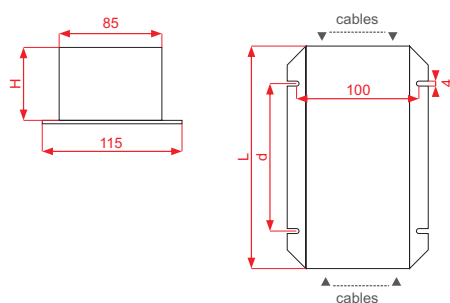
3kVA



6kVA - 10kVA

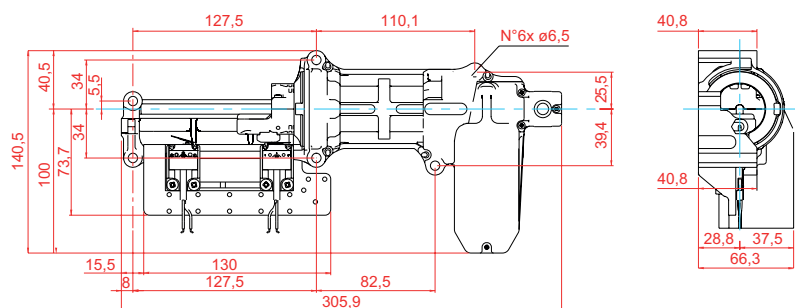


EMC Filter



EMC Filter	L	d	H
	[mm]		
3kVA	140	96	60
6kVA	180	118	60
10kVA	180	118	70

Linear Actuator



Technical data not binding: NSM reserves the right to modify the contents without prior notice.

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