

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-36-148	B1
POWER RATING			DATE	
			01-04-10	
			DEP.	2

GENSET:	SFGM 360	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	PROPANE
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	9,2:1
COOLING SYSTEM:	TWO STAGE IC	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	14°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	500	
	CO mg/Nm3(8)	<800	
	NMHC mg/Nm3	<600	
		AMBIENT CONDITIONS ISO 3046/1:	
		Atmospheric pressure (kPa)=	100
		Ambient temperature (°C)=	25
		Relative humidity (%)=	30

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	630	504	378	252
BMEP		bar	14,0	11,2	8,4	5,6
ELECTRICAL POWER (cosφ 1)		kWe	610,0	488,0	365,0	241,0
ELECTRICAL POWER (cosφ 0,8)		kWe	602,0	482,0	361,0	239,0
FUEL CONSUMPTION	(1)	kW	1583	1311	1029	757
THERMAL EFFICIENCY		%	39,8	38,4	36,7	33,3
ELECTRICAL EFFICIENCY (cosφ 1)		%	38,5	37,2	35,5	31,8
HEAT IN MAIN WATER CIRCUIT	(1)	kW	446	369	300	239
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	100	94	80	62
HEAT IN CHARGE COOLER	(1)	kW	28	25	15	5
HEAT IN OIL COOLER	(1)	kW	72	69	65	57
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	380	319	253	189
HEAT IN EXHAUST GASES (120°C)	(1)	kW	295	249	199	149
EXHAUST GAS TEMPERATURE	(1)	°C	450	458	466	475
HEAT TO RADIATION	(1)	kW	27	25	18	15
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	8,5	8,3	8,0	7,6

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	2680	2200	1720	1250
EXHAUST GAS FLOW (WET)	(1)	kg/h	2800	2300	1790	1310

NOTES:
1. 100% LOAD TOLERANCES: FUEL CONSUMPTION +5%, COOLING CIRCUIT AND EXHAUST GASES ± 8%, RADIATION ±25% EXHAUST TEMPERATURE ±20°C, MASS FLOWS ± 10%.
2. THE ENGINE PERFORMANCE DATA, TIMING ADVANCE AND CARBURETION SETTINGS ARE VALID FOR A PROPANE (C3H8 >95%) THAT FULFILS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-018
3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.
4. POWERS ARE VALID FOR AMBIENT TEMP.=25°C AND AN ALTITUDE OF =500m. SEE OTHER CONDITIONS IN PI IC-G-B-00-001
5. OVERLOAD NOT ALLOWED
6. THE SPECIFICATIONS AND MATERIALS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION
7. A ENGINE WITH INLET OR OUTPUT RESTRICTION OVER PUBLISHED LIMITS, OR WITH INADEQUATE MAINTENANCE OR INSTALLATION CAN MODIFY POWER RATING DATA.
8. EMISSIONS ARE CORRECTED TO 5% OF O2.
9. ALTERNATOR VOLTAGE 400 V

CODE3	25.07.2014	Cod.: C-A	Elab:	dis10	Versión: 27.1/09052014	1/1
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