

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-18-101	B
	POWER RATING			DATE
			01-04-10	
			DEP.	2

GENSET:	SFGM 180	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 CIRCUITS	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	14°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	1000	
	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	275	220	165	110
BMEP		bar	12,2	9,8	7,3	4,9
ELECTRICAL POWER (cosφ 1)		kWe	264,0	211,0	158,0	104,0
ELECTRICAL POWER (cosφ 0,8)		kWe	260,0	209,0	156,0	103,0
FUEL CONSUMPTION	(1)	kW	691	571	451	335
THERMAL EFFICIENCY		%	39,8	38,5	36,6	32,8
ELECTRICAL EFFICIENCY (cosφ 1)		%	38,2	37,0	35,0	31,0
HEAT IN MAIN WATER CIRCUIT	(1)	kW	175	154	129	111
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	62	48	36	26
HEAT IN CHARGE COOLER	(1)	kW	28	17	7	***
HEAT IN OIL COOLER	(1)	kW	34	31	29	26
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	163	136	110	82
HEAT IN EXHAUST GASES (120°C)	(1)	kW	127	107	87	65
EXHAUST GAS TEMPERATURE	(1)	°C	453	464	474	482
HEAT TO RADIATION	(1)	kW	16	13	11	6
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	7,3	7,0	6,6	6,1

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	1140	920	730	540
EXHAUST GAS FLOW (WET)	(1)	kg/h	1190	970	760	560

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 >80%) 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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