

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-24-117	1
	POWER RATING			DATE 27/12/11

GENSET:	SFGLD 240	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	LOW METHANE N. GAS
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:	16°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	AMBIENT CONDITIONS ISO 3046/1:	
	CO mg/Nm3(8)	Atmospheric pressure (kPa)=	100
	NMHC mg/Nm3	Ambient temperature (°C)=	25
		Relative humidity (%)=	30

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	360	288	216	144
BMEP		bar	12,0	9,6	7,2	4,8
ELECTRICAL POWER (cosφ 1)		kWe	347,0	278,0	208,0	137,0
ELECTRICAL POWER (cosφ 0,8)		kWe	342,0	274,0	206,0	136,0
FUEL CONSUMPTION	(1)	kW	959	793	638	482
THERMAL EFFICIENCY		%	37,5	36,3	33,9	29,9
ELECTRICAL EFFICIENCY (cosφ 1)		%	36,2	35,1	32,6	28,4
HEAT IN MAIN WATER CIRCUIT	(1)	kW	216	194	179	157
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	98	73	53	38
HEAT IN CHARGE COOLER	(1)	kW	53	31	14	3
HEAT IN OIL COOLER	(1)	kW	45	42	39	35
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	261	217	172	127
HEAT IN EXHAUST GASES (120°C)	(1)	kW	204	171	136	100
EXHAUST GAS TEMPERATURE	(1)	°C	465	474	477	480
HEAT TO RADIATION	(1)	kW	24	21	18	16
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	7,8	7,6	7,3	6,9

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	1780	1450	1150	840
EXHAUST GAS FLOW (WET)	(1)	kg/h	1850	1510	1190	870

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 GAS OF METHANE NUMBER >45 THAT FULFILS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-013
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

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