

SIEMENS	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-36-061	F1
	POWER RATING			DATE 15/05/17

GENSET:	SGE-36SL	SPEED:	1800
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	NATURAL GAS
INTERCOOLER WATER TEMP(°C):	55		

SERVICE:	CONTINUOUS	COMPRESSION RATIO:	11,6:1
COOLING SYSTEM:	TWO CIRCUITS	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	TWO STAGE IC	IGNITION TIMING:	18º
EMISSIONS:	WATER COOLED	MAX. BACK PRESSURE:	450 mmH2O
	NO _x mg/Nm3(8) 900	AMBIENT CONDITIONS ISO 3046/1:	
	CO mg/Nm3(8) <800	Atmospheric pressure (kPa)= 100	
	NMHC mg/Nm3(8) <300	Ambient temperature (°C)= 25	
	CH ₄ mg/Nm3(8) <1200	Relative humidity (%)= 30	
	CO ₂ kg/h (1) 359		

POWER RATING (4)		NOMINAL	PARTIAL LOADS		
LOAD	%	100%	80%	60%	40%
MECHANICAL POWER (3, 4, 5)	kWb	700	560	420	280
BMEP	bar	13.0	10.4	7.8	5.2
ELECTRICAL POWER (cosφ 1) (9)	kWe	676	539	402	264
ELECTRICAL POWER (cosφ 0,8) (9)	kWe	669	534	398	262
FUEL CONSUMPTION (1)	kW	1772	1465	1166	867
MECHANICAL EFFICIENCY	%	39.5	38.2	36.0	32.3
ELECTRICAL EFFICIENCY (cosφ 1) (9)	%	38.1	36.8	34.5	30.4
HEAT IN MAIN WATER CIRCUIT (1)	kW	491	414	343	285
HEAT IN SECONDARY WATER CIRCUIT (1)	kW	117	104	93	76
HEAT IN CHARGE COOLER (1)	kW	38	31	24	11
HEAT IN OIL COOLER (1)	kW	79	73	69	65
HEAT IN EXHAUST GASES (25 °C) (1)	kW	435	363	293	214
HEAT IN EXHAUST GASES (120°C) (1)	kW	326	273	223	164
EXHAUST GAS TEMPERATURE (1)	°C	402	410	422	432
HEAT TO RADIATION (1)	kW	29	24	17	12

CARBURETION SETTINGS (2)					
O ₂ TO EXHAUST(DRY)(ONLY A REFERENCE)	%	8.4	8.2	7.9	7.7

MASS FLOWS					
INTAKE AIR FLOW (1)	kg/h	3480	2840	2220	1580
EXHAUST GAS FLOW (WET) (1)	kg/h	3610	2950	2300	1640

NOTES:
<p>1. ALL VALUES ASUME LHV OF THE GAS. 100% LOAD TOLERANCES:</p> <p>FUEL CONSUMPTION +5%, COOLING CIRCUIT AND EXHAUST GASES ± 8%, RADIATION ±25% EXHAUST TEMPERATURE ±20°C, MASS FLOWS ± 10% (ALSO FOR CO2 FLOW IN EXHAUST).</p> <p>2. THE ENGINE PERFORMANCE DATA, TIMING ADVANCE AND CARBURETION SETTINGS ARE VALID FOR A GAS THAT FULFILLS THE REQUIREMENTS DEFINED IN IC-G-D-30-001e AND IC-G-D-30-002e</p> <p>3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.</p> <p>4. POWERS ARE VALID FOR AMBIENT TEMP.=25°C AND AN ALTITUDE OF =500 m. SEE OTHER CONDITIONS IN PI IC-G-B-00-001</p> <p>5. OVERLOAD NOT ALLOWED. IT IS NOT RECOMMENDED TO OPERATE BELOW 40% LOAD DURING LONG TIME.</p> <p>6. THE SPECIFICATIONS AND MATERIALS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION</p> <p>7. A ENGINE WITH INLET OR OUTPUT RESTRICTION OVER PUBLISHED LIMITS, OR WITH INADEQUATE MAINTENANCE OR INSTALLATION CAN MODIFY POWER RATING DATA.</p> <p>8. EMISSIONS ARE CORRECTED TO 5% OF O2. EMISSIONS ACCORDING TO D1 CYCLE IS 8178-4.</p> <p>9. ALTERNATOR VOLTAGE 480 V</p>

CODE3	5/27/2019	Cod.: C-A	Elab:	Prov34	Versión: 9.1/28/01/2019	1/1
-------	-----------	-----------	-------	--------	-------------------------	-----