

<b>SIEMENS</b>	GROUP	<b>GAS</b>	PRODUCT INFORMATION	INDEX
	<b>IC</b>		<b>IC-G-B-24-033</b>	<b>F</b>
	<b>POWER RATING</b>			DATE 17/11/16

<b>GENSET:</b>	<b>SGE-24SL</b>	<b>SPEED:</b>	<b>1800</b>
<b>JACKET WATER TEMPERATURE(°C):</b>	<b>90</b>	<b>FUEL TYPE:</b>	<b>NATURAL GAS</b>
<b>INTERCOOLER WATER TEMP(°C):</b>	<b>55</b>		

SERVICE:	<b>CONTINUOUS</b>	COMPRESSION RATIO:	<b>11,6:1</b>
COOLING SYSTEM:	<b>TWO CIRCUITS</b>	REGULATION:	<b>Electronic</b>
EXHAUST MANIFOLD TYPE:	<b>WATER COOLED</b>	IGNITION TIMING:	<b>10°</b>
EMISSIONS:		MAX. BACK PRESSURE:	<b>450 mmH2O</b>
	NO <sub>x</sub> mg/Nm3(8)	<b>450</b>	AMBIENT CONDITIONS ISO 3046/1:
	CO mg/Nm3(8)	<b>&lt;800</b>	Atmospheric pressure (kPa)=
	NMHC mg/Nm3(8)	<b>&lt;300</b>	Ambient temperature (°C)=
	CH <sub>4</sub> mg/Nm3(8)	<b>&lt;1200</b>	Relative humidity (%)=
	CO <sub>2</sub> kg/h (1)	<b>245</b>	

POWER RATING (4)		NOMINAL	PARTIAL LOADS		
LOAD	%	100%	80%	60%	40%
MECHANICAL POWER (3, 4, 5)	kWb	<b>453</b>	362	272	181
BMEP	bar	<b>12.6</b>	10.1	7.6	5.0
ELECTRICAL POWER (cosφ 1)	kWe	<b>436</b>	348	260	171
ELECTRICAL POWER (cosφ 0,8)	kWe	<b>431</b>	345	258	170
FUEL CONSUMPTION	kW	<b>1208</b>	989	766	548
MECHANICAL EFFICIENCY	%	<b>37.5</b>	36.6	35.5	33.0
ELECTRICAL EFFICIENCY (cosφ 1)	%	<b>36.1</b>	35.2	33.9	31.2
HEAT IN MAIN WATER CIRCUIT	kW	<b>326</b>	279	226	171
HEAT IN SECONDARY WATER CIRCUIT	kW	<b>131</b>	100	71	52
HEAT IN CHARGE COOLER	kW	<b>77</b>	49	25	8
HEAT IN OIL COOLER	kW	<b>54</b>	51	46	44
HEAT IN EXHAUST GASES (25 °C)	kW	<b>278</b>	231	183	132
HEAT IN EXHAUST GASES (120°C)	kW	<b>209</b>	175	140	102
EXHAUST GAS TEMPERATURE	°C	<b>409</b>	420	432	440
HEAT TO RADIATION	kW	<b>20</b>	17	14	12

CARBURETION SETTINGS (2)		NOMINAL	80%	60%	40%
O <sub>2</sub> TO EXHAUST(DRY)(ONLY A REFERENCE)	%	<b>8.7</b>	8.4	8.1	7.7

MASS FLOWS		NOMINAL	80%	60%	40%
INTAKE AIR FLOW	kg/h	<b>2180</b>	1750	1350	950
EXHAUST GAS FLOW (WET)	kg/h	<b>2260</b>	1830	1410	990

<b>NOTES:</b>
<p>1. ALL VALUES ASUME LHV OF THE GAS. 100% LOAD TOLERANCES:  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
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