

8. TECHNICAL SPECIFICATIONS

8.1 READINGS ON GAUGES

<i>Gauge</i>	<i>Reading</i>	<i>Unit</i>
Ammeter L1 (P1)	Below max. rating	A
Ammeter L2 (P2)	Below max. rating	A
Ammeter L3 (P3)	Below max. rating	A
Voltmeter (P4)	Depends upon selector switch	V
Frequencymeter (P5)	50 Hz: Between 50 and 52.5	Hz
	60 Hz: Between 60 and 62.5	Hz
Houmeter (P6)	Adding up	h
Fuel level (P7)	Above 0	Fuel tank full
Engine temperature (P8)	Below max. rating	°C
Engine oil pressure (P9)	Below max. rating	bar

8.2 SETTINGS OF SWITCHES

<i>Switch</i>	<i>Function</i>	<i>Activates at</i>
Engine oil pressure	shut down	0.5 bar
Engine coolant temperature	shut down	105 °C

8.3 SPECIFICATIONS OF THE ENGINE/ALTERNATOR/UNIT

		<i>50 Hz</i>	<i>60 Hz</i>
<i>Reference values</i>	Absolute air inlet pressure	100 kPa	100 kPa
	Air inlet temperature	25 °C	25 °C
	Relative air humidity	30 %	30 %
	Generator load	Continuous	Continuous
<i>Limitations without derating</i>	Maximum ambient temperature	40 °C	40 °C
	Maximum altitude	1000 m	1000 m
	Maximum relative air humidity	85 %	85 %
	Minimum starting temperature	-18 °C	-18 °C
<i>Engine</i>	Type DETROIT DIESEL	S60	S60
	Rated net output	261 kW	310 kW
	Load speed	1500 rpm	1800 rpm
	Electrical system	24 V	24 V
	Battery (2x)	12 V / 143 Ah	12 V / 143 Ah
	Oil circuit capacity	36 l	36 l
	Cooling circuit capacity	44 l	44 l
	Fuel tank capacity	530 l	530 l
	Fuse F4	10 A	10 A
	Fuel consumption at full load/no load	48.6/7.2 kg/h	59.6/9.9 kg/h
Maximum run time with fuel tank	9 h	7.5 h	
<i>Alternator</i>	Type	ECN 37 LD	ECN 37 LD
	Rated output, class H temp. rise	320 kVA	384 kVA
	Rated voltage 3ph line to line lower voltage	230 V	220 V
	Rated voltage 3ph line to line higher voltage	400 V	480 V
	Frequency	50 Hz	60 Hz
	Speed	1500 rpm	1800 rpm
	Power factor	0.8	0.8
	Number of phases	3 + neutral	3 + neutral
	Insulation armature winding, class	H	H
	Insulation field winding, class	H	H
	Sensitivity of earth leak detector	30 mA	30 mA
	Maximum diffusion resistance of earthing rod	1 kΩ	1 kΩ
	Setting of Q1	433 A	433 A
	Fuses F1 ... F3	4 A	4 A
	Sensitivity of insulation monitoring relay	10 100 kΩ	10 100 kΩ

<i>Unit</i>	Dimensions (L x W x H)	3955 x 1431 x 2128 mm	3955 x 1431 x 2128 mm
	Weight net mass	4280 kg	4280 kg
	Weight wet mass	4800 kg	4800 kg

8.4 SPECIFICATIONS OF THE OPTIONS

8.4.1 Specifications of the sockets option

Setting of circuit breaker Q2	16 A	16 A
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8.4.2 Low voltage option

Rated voltage 3ph line to line lower voltage	230 V	220 V
Setting of circuit breaker Q1.1	753 A	910 A

8.4.3 Specifications of the dual/tripple voltage option

Rated voltage 3ph line to line higher voltage	400 V	480 V
Rated voltage 3ph line to line lower voltage	230 V	220 V
Rated voltage 1ph line to line lower voltage	230 V	220 V
Setting of circuit breaker Q1.1	753 A	910 A
Setting of circuit breaker Q1.2	433 A	455 A

8.4.4 Dual frequency

Frequency	50/60 Hz	50/60 Hz
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8.5 ENGINE DIAGNOSTIC CODES

To read the engine diagnostic codes, connect the diagnostic data reader to the diagnostic data socket (X20) or depress and hold the diagnostic request switch with the ignition on, the engine at idle or not running. Press and hold the switch.

Active codes will be flashed on the stop engine light, followed by the inactive codes being flashed on the check engine light. The cycle will repeat until the diagnostic request switch is released.

The flash code contains 2 digits:

- the first digit is the number of times L13 or L14 flashes slowly
- the second digit is the number of times L13 or L14 flashes fast