



ENDRESS

Power Generators

ESE 45 BW

Order No. **320409**

Main features

Emergency Standby Power (ESP) [kVA/kW]	41,25/36
Prime power (PRP) [kVA/kW]	37,5/30
Nominal voltage [V]	400/230
Frequency [Hz]	50
Nominal current 3~ (PRP) [A]	54,1
Power factor cos (phi)	0,8
Main circuit breaker [Pole]	4

Measures and weight

Dimensions L x W x H [mm]	1825 x 950 x 1135
Weight in kg ca.	720
Fuel tank capacity [l]	70

Autonomy

Running time @ 75% PRP [h]	8,9
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Installation data

Total air flow [m ³ /min]	3,17
Exhaust gas flow @ PRP [m ³ /min]	9,53
Exhaust gas temperature	650
Maximum back pressure [kPa]	11

Technical data and illustrations are not binding. We assume no liability for misprints.

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Motor	
Brand	Baudouin
Model	4M08G10D3-5
Emission regulation	Stage 3A
Cooling system	water-cooled
Displacement [ccm]	3170
Mean piston speed [m/s]	5,3
Compression rate	18:1
Engine output (PRP) [kW]	36,8
Engine output (LTP) [kW]	44
RPM [U/min]	1500
RPM regulation	Electronic
Starting system	Electric
Electric circuit [V]	12
Battery [Ah]	1x 60
Fuel	Diesel
Specific fuel consumption @ 75% PRP [g/kWh]	222,7
Oil capacity [L]	9.2
Coolant capacity [L]	5
Lube oil consumption @ PRP (max) [%]	<=0.1
Starting engine capability [kW]	3,8
Fuel consumption @ 75% PRP [L/h]	7,32
Fuel consumption @ 100% PRP [L/h]	9,65

LTP - Limited Power in continuous service as ISO 8528-1:2005. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year (whose no more than 300 for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

PRP - Power in continuous service as ISO 8528-1:2005. It is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24h of operation shall not exceed 70 % of the prime power.

COP - Base load (continuous) service as ISO 8528-1:2005. It is defined as being the maximum power which the generating set is capable of delivering continuously whilst supplying a constant electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. A 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation.

Ratings definition (ISO-8528)

ESP - Emergency Standby Power: It is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

This CO₂ measurement results from testing over a fixed test cycle under laboratory conditions a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine'.

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Generator	
Brand	MeccAlte ECP32 1S4C
Alternator type	ECP32 1S4C
Insulation class	H
Voltage regulation	electrical
Protection Class [IP]	23
Poles	4
Frequency [Hz]	50
Frequency tolerance [%]	±1
Voltage tolerance [%]	1
Power factor cos (phi)	0,8
Efficiency @ 75% load [%]	88,7
Standard AVR	DSR
THD full load LL/LN [%]	2,8/2,8
THD no load LL/LN [%]	3/3,1
THF [%]	<2
Short Circuit Current Capacity [%]	>300

Equipment features	
3-phase sensing AVR	
Problem-free use, also in winter through use of a standard engine and coolant prewarming	
Diesel filter with water trap	

Special equipment - not retrofittable	Order No.
Parallel panel for synchronization from generator to generator	auf Anfrage
Automatic fuel pump	auf Anfrage
Terminal board	auf Anfrage
Main battery switch	auf Anfrage
3-way fuel cock for external refuelling	auf Anfrage
Leak proof tray	auf Anfrage
Manual oil pump	auf Anfrage
Remote start device	auf Anfrage
Socket combination	auf Anfrage
Flexible Exhaust Compensator	auf Anfrage
Exhaust System (LWA reduction -15 dB(A) at exhaust gas expulsion point)	auf Anfrage
Exhaust System (LWA reduction -25 dB(A) at exhaust gas expulsion point)	auf Anfrage
Exhaust System (LWA reduction -35 dB(A) at exhaust gas expulsion point)	auf Anfrage

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