ENDRESS®
Power Generators

ESE 275 VW/AS

Order No. **87523028**

Main features	
Max. Output [LTP] [kVA/kw]	287,04/229,63
Prime power (PRP) [kVA/kW]	255,15/204,12
Nominal voltage [V]	220/127
Frequency [Hz]	60
Nominal current 3~ (PRP) [A]	753,28
Power factor cos (phi)	0,8
Main circuit breaker [Pole]	4

Measures and weight	
Dimensions L x W x H [mm]	3951 x 1438 x 2085
Weight in kg ca.	2990
Fuel tank capacity [l]	636

Autonomy	
Running time @ 75% PRP [h]	13,3

Noise level	
Sound power level LWA [db(A)]	97
Sound pressure level LPA (7 m) [db(A)]	68

Installation data	
Total air flow [m³/min]	18,9
Exhaust gas flow @ LTP [m³/min]	37,9
Exhaust gas temperature @ LTP [°C]	510
Maximum back pressure [kPa]	10

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Motor	
Brand	Volvo
Model	TAD734GE_60
Emission regulation	Tier II
Nr. of cylinder and disposition	6
Cooling system	Water-cooled
Displacement [ccm]	7150
Stroke [mm]	108 x 130
Compression rate	17.0:1
Engine output (COP) [kW]	188,8
Engine output (PRP) [kW]	236
Engine output (LTP) [kW]	263
CO2 emissions [g / kWh]	k.A. (Stage II)
RPM [U/min]	1800
RPM regulation	Electronic
Starting system	Electric starter
Electric circuit [V]	24
Battery [Ah]	155
Fuel	Diesel
Specific fuel consumption @ 75% PRP [g/kWh]	222
Oil capacity [L]	29
Coolant capacity [L]	32
Lube oil consumption @ PRP (max) [%]	0,1
Starting engine capability [kW]	5,5

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 ECO38-1LN/4
Alternator type	synchron
Insulation class	Klasse H
Voltage regulation	electronic
Protection Class [IP]	23
Poles	4
Frequency [Hz]	60
Frequency tolerance [%]	±1
Voltage tolerance [%]	1
Power factor cos (phi)	0,8
Efficiency @ 75% load [%]	94,5
Standard AVR	DSR
THD full load LL/LN [%]	2 / 2,1
THD no load LL/LN [%]	2,9 / 3,1
THF [%]	<2
Short Circuit Current Capacity [%]	>300

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