

# DATASHEET

## RID 20 S-SERIES DIESEL GENERATOR 20 KVA

*symbolic image*



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*symbolic image*



Our power generators are constantly being further developed. For this reason, the illustrations and technical data of the generators may be subject to change. RID GmbH assumes no responsibility for possible printing errors. Issued 01 August 2024.

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## Power rating

Output power	
Power	20 kVA   16 kW
Current	28,8 A   23,0 A
Voltage	230 / 400 V
Frequency	50 Hz
Power factor	0,8 cos $\varphi$

## Product overview

Order number open	713450	
Order number closed	713451	
Alternator model	Linz SLT18 MD	LeroySomer TAL 040 F
Engine type	DEUTZ F3M2011	
Generator type	synchronous	
Control panel	RID 3000-A	
CE certified in accordance with Machinery Directive 2006/42/EC		

### Dimensions and weights Generator

	Length (L)	Width (W)	Height (H)	Weight	Tank
Open	1500 mm	752 mm	1160 mm	550 kg	150 l
Closed	1500 mm	782 mm	1246 mm	700 kg	150 l

### Noise level

	1 Meter	4 Meter	7 Meter	10 Meter
Open	84 dB(A)	82 dB(A)	80 dB(A)	79 dB(A)
Closed	75 dB(A)	70 dB(A)	64 dB(A)	62 dB(A)

### Fuel consumption

	25% load	50% load	75% load	100% load
Consumption	1,9 l/h	2,9 l/h	4,2 l/h	5,8 l/h

### Engine technical data

Engine output	20,4 kW
Engine type	DEUTZ F3M2011
Engine size	3-Cylinder; in-line
Rotational-speed range	1500 u/min
Speed regulation	mechanical
Displacement	2,3 l
Engine w/o cooling system	265 kg

### Alternator data

Alternator model	Linz SLT18 MD	LeroySomer TAL 040 F
Insulation Class	H	
Regulation type	AVR	
Execution	brushless	
Protection class	IP 23	
Airflow Requirement	330 m <sup>3</sup> /h	216 m <sup>3</sup> /h

## Intake and exhaust system

Silencer type	industrial
Max. exhaust gas temperature	611 °C
Exhaust gas flow	236 m <sup>3</sup> /h
Max. exhaust back pressure	30 mbar
Air filter type	replaceable element

### Engine lubrication

Oil type	RID 10W30
Oil filter type	replaceable element
Total oil volume	9 l
Max. oil temperature	130 °C

### Engine cooling

Cooling system	oil + air
Cooling system capacity	9 l
Fan power consumption	0,4 kW
Cooling air flow	1800 m <sup>3</sup> /h

# Controller RID 3000-A



## Functions

Current	Battery voltage	Operating hours counter
Frequency	Power (kVA-kW)	Rotational-speed range
Voltage	Power factor Cosφ.	Fuel level (%)

## Commands and other

- Four operating modes: OFF - Manual Start - Automatic Start - Automatic Test
- Push button to force the mains contactor or the generator contactor
- Push buttons: Start/Stop, Error Reset, Up/Down/Side Selection/Enter
- Remote start possible
- Audible alarm
- Protective functions with shutdown
- Engine protection: low fuel level, low oil pressure, high engine temperature
- Generator protection: undervoltage/overvoltage, overload, battery undervoltage/overvoltage, battery charger failure
- Protocols: GSM, Ethernet, Modbus, Canbus