

MAIN FEATURES

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|------------------------------------------------------------|-------------------------------------------------|
| Highest quality and reliability. | Wide range of standard and optional equipment. |
| ComAp IL-NT AMF25 controller. | Engine heater – ready to load just after start. |
| Ready to control MAINS – GENERATOR transfer switch. | Frame anticorrosion coating – Zr. |
| Configured for both manual and automatic mode (MRS + AMF). | Brushless alternator. |
| Wide range of remote communications options. | |
| Schneider NSX type GCB. | |



The presented image is for illustration purpose only.

GENERAL DATA

| | |
|-----------------------------------|--------------------|
| Code | F.0200.VA.F |
| Standby power E.S.P. [kVA] / [kW] | 220,0 / 176,0 |
| Prime power P.R.P. [kVA] / [kW] | 200,0 / 160,0 |
| Prime current P.R.P [A] | 289,0 |
| Frequency [Hz] | 50 |
| Voltage [V] | 400 |
| Exhaust emission | stage II |
| Fuel type | Diesel (EN 590) |
| Fuel consumption - 50% load [l/h] | 24,3 |
| - 75% load [l/h] | 35,1 |
| - 100% load [l/h] | 46,6 |
| - 110% load [l/h] | 51,8 |
| Standard fuel tank capacity [l] | 700 |
| Autonomy with 100% load [h] | 15,0 |
| Engine control voltage [V] | 24 |
| Weight without fuel [kg] | ~1770 |
| Dimensions L x W x H [mm] | 3020 x 1046 x 1896 |
| Acoustic power Lwa [dBA] | 114,1 ± 0,9 |
| Acoustic pressure Lpa (7m) [dBA] | 85,6 ± 0,9 |

Nominal power P.R.P.:

Prime power available in variable load application in accordance with ISO 8528, 10% overload capacity is available for a period of 1h within a 12-hour period of operation. Average power consumption should not exceed 70% PRP for each 24 hours of work.

Stand-by power E.S.P.:

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 500h of operation per year, average power consumption should not exceed 80% ESP for each 24 hour

Remark:

All parameters are given for reference conditions: ambient air temperature up to 40°C and site altitude above sea level 1000m.

Norms and directives:

- Machinery directive 2006/42/EC
- Low voltage directive 2014/35/EC
- EC directive 2014/30/EC
- Emission directive 97/68/EC
- ISO 8528-1:2005, ISO 8528-5:2013
- ISO 8528-13:2016
- EN 60204-1

STANDARD CONTROLLER

| |
|---------------------------------------------------------------------------------------------------|
| Controller type: AMF 25 |
| Easy to operate, intuitive graphical interface |
| Real time clock with battery supply |
| AMF function available |
| Flexible event based history with up to 119 events |
| 3 Phase generator current measurement |
| Generator and Mains phase voltage measurement |
| Active/reactive power measurement |
| Active and reactive energy counter |
| Running hours counter |
| Battery charging alternator circuit connection |
| Fuel level measurement |
| Generator protection (over/under frequency, voltage, overcurrent) |
| Communication with ECU supporting CAN J1939 standard |
| Communication interface RS 485 and RS 232 supporting Modbus RTU (IL-NT RS232-485 module required) |
| GSM modem / wireless internet (IL-NT GPRS module required) |
| Internet/Ethernet communication (IB-Lite module required) |
| InteliMonitor software for single gen-set view |
| WebSupervisor software for Android mobile devices or PC's for fleet management |
| Active SMS or e-mail (IL-NT GPRS or IB-Lite module required) |


ENGINE

| | |
|-----------------------------|-----------------|
| Brand | Volvo |
| Type | TAD733GE |
| Made in | Germany |
| Engine power [kW] | 176,0 |
| Emission standard* | stage II |
| Rotation per minute [rpm] | 1500 |
| Engine governor | electronic |
| Governor class** | G3 |
| Displacement [l] | 7,2 |
| No of cylinder | 6 |
| Fuel system | unit injectors |
| Electrical system [V] | 24 |
| Cooling system capacity [l] | 32,0 |
| Oil pan capacity [l] | 34,0 |
| Fuel type | Diesel (EN 590) |

ALTERNATOR

| | |
|------------------------------------|----------------------|
| Nominal Voltage [V] | 400 |
| Nominal power factor (cos phi) | 0,8 |
| Ambient temperature, altitude | 40 °C, 1000m a.m.s.l |
| Nominal Power [kVA] | 200,0 |
| IP protection | IP 23 |
| No of bearing | single bearing |
| Coupling | direct |
| Technology | brushless |
| Short circuit maintaining capacity | 270% 10s |
| Efficiency [%] | 91,4 |
| Insulation class | H |
| Total harmonic content THD [%] | 2,5 |
| Reactance Xd'' [%] | 14,2 |
| Voltage regulator type | DVR, digital |
| Voltage measurement | 3 phases |
| Voltage accuracy [%] | +/- 0,25 |
| AVR supply system | auxiliary winding |
| AVR supply optional | PMG |
| Made in | EU |

* According directive 97/68/EC non road mobile machinery engine emission.

** According ISO 8528-5:2013

**FOCUSED ON GENERATORS ONLY****Power Generator FDF 200 V****STANDARD EQUIPMENT****OPTIONAL EQUIPMENT**

| | | | |
|---------------------------------------|---|----------------------------------------------------|---|
| Volvo TAD733GE engine | ✓ | Battery disconnection switch | ✓ |
| Electronic engine speed governor | ✓ | GCB 4P Schneider NSX Micrologic 2.3 | ✓ |
| Oil low pressure switch | ✓ | Power Lock type power output | ✓ |
| Oil pressure sensor | ✓ | Power socket box | ✓ |
| Engine high temperature switch | ✓ | Transfer switch controlled by generator controller | ✓ |
| Engine high temperature sensor | ✓ | Transfer switch with ATS controller | ✓ |
| Engine preheating with thermostat | ✓ | GPRS communication card | ✓ |
| Engine oil Titan Cargo 15W40 | ✓ | Ethernet card | ✓ |
| Oil draining hand pump | ✓ | RS 485, RS 232 card | ✓ |
| Fuel filter with water separator | ✓ | Remote display | ✓ |
| Coolant Fuchs Maintain Fricofin LL-35 | ✓ | Non-standard fuel tank size | ✓ |
| Starting batteries 2x 100 Ah | ✓ | External fuel tank 1 000 – 10 000 l | ✓ |
| Battery charger | ✓ | 3-way valve for external fuel tank connection | ✓ |
| GCB Schneider NSX 400 3P + Mic.2.3 | ✓ | Fuel tank filling pump and shut-off valve | ✓ |
| GCB shunt release coil | ✓ | | |
| Controller ComAp IL-NT-AMF25 | ✓ | | |
| Controller switch | ✓ | | |
| Acoustic alarm | ✓ | | |
| Emergency stop button | ✓ | | |
| Welded frame with fuel tank | ✓ | | |
| Frame with drip tray | ✓ | | |
| Fuel level measurement | ✓ | | |
| Exhaust compensator | ✓ | | |
| Engine and alternator vibro isolators | ✓ | | |
| Silencer delivered with the generator | ✓ | | |
| Transportation brackets | ✓ | | |

**INSTALLATION GUIDELINES**

| | |
|------------------------------------------------------|--------------------------------|
| Power terminal | GCB terminal |
| Recommended cable for up to 30m power cable way | Flexible 5x150 mm ² |
| Recommended cable for do 30m generator heater supply | Flexible 3x2,5 mm ² |

*For additional cable connection with FOGO ATS see ATS wiring diagram

| | |
|------------------------------------------------|----------|
| Exhaust pipe min diameter (max. 7 m, 4 bends) | 101,6 mm |
| Exhaust pipe min diameter (max. 15 m, 4 bends) | 114,3 mm |

MAINTENANCE GUIDELINES

| | |
|-------------------------------------|---------------------------------------------------------|
| Fuel filters replacement | 500 h / 1 year |
| Oil replacement | After first 100h, then every 500 h / 1 year |
| Oil filters replacement | After first 100h, then every 500 h / 1 year |
| Coolant replacement | 1000 h / 2 years |
| Battery replacement | 2 years |
| Electrical installation supervising | According to local requirements, at least once per year |

WARRANTY

| | |
|----------------------------|------------------------------------|
| Continuous work generators | 12 months up to 1000 working hours |
|----------------------------|------------------------------------|