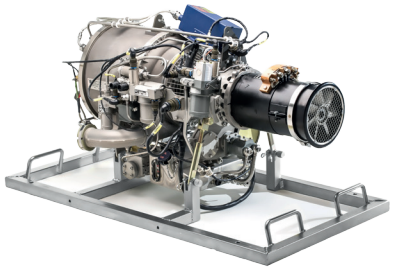
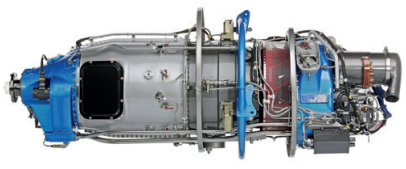
DC STARTER-GENERATOR

EMG-200

An air-cooled, brush type machine designed for starting APUs or aircraft engines and as a supply of electrical power to boarding systems





PBS 200 years

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STARTER-GENERATOR

Main features

- Low weight
- Long operating life time
- Short-time overloading possible
- High starting performance
- Self-cooling system
- Flexible shaft with damper and shear neck section
- High operating altitude
- Designed in accordance with RTCA-DO-160 G and MIL-STD-704F

Main parameters

Output voltage	28 V DC
Rated load current	200 A
Rated output	6 kW
Speed range	8,000 - 12,150 rpm
Overspeed	15,000 rpm (5 minutes)
Maximum speed for regulation	13,000 rpm
Minimum speed for regulation	7,600 rpm
Operating altitude	10,000 m
Operating temperature	-55 to 85°C

Starter performance

Maximal DC voltage	28 V
Maximal input current	1,000 A with return to 800 A within 1.5 sec.

Reliable operating lifetime

Hours of operation	4,500
Number of starts	9,000

Mechanical characteristics

Weight	9.8 kg
Diameter length	134x188 mm
Direction of rotation	CCW facing the shaft

GENERATOR CONTROL UNIT (GCU)

Main features

- Designed in accordance with current standards
- Low weight
- Maintenance free
- Possible reset from an aircraft cockpit
- Electrical network protection

Main parameters

Power supply	28 V DC
At nominal RPM, GCU keeps the voltage value at 28.5 V with permitted deviations, in accordance with MIL-STD-704F	
Output voltage set in range	26 - 30 V

Reliable operating lifetime

Operating hours	10,000
Number of starts	10,000

Protections

Reverse current protection in generator mode
Overvoltage protection
Undervoltage protection
Overcurrent protection
Overexcitation protection
Reverse polarity

PBS Velká Bíteš

První brněnská strojírna Velká Bíteš, a. s.
Vlkovská 279, 595 01 Velká Bíteš
Czech Republic

Sales Department:
Tel: +420 566 822 304
Fax: +420 566 822 372

E-mail: sales@pbsvb.cz
www.pbsvb.com