

中国民用航空总局

CIVIL AVIATION ADMINISTRATION OF CHINA

编号/No.: VTC0077E

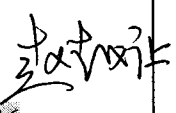
修订/ Rev.: 1

型号/Type: 见★ (SEE★)

CFM 56-7B18/3 CFM56-7B20/3

CFM56-7B22/3 CFM56-7B24/3

CFM56-7B26/3 CFM56-7B27/3

批准人/ Approved By: 

日期/Date: 2007-10-16

★1998年5月3日型号认可证VTC077E所列发动机型号为批准的发动机型号。

★Engine models, CFM56-7B18, CFM56-7B20, CFM56-7B22, CFM56-7B24, CFM56-7B26, and CFM56-7B27, listed in Validation of Type Certificate VTC077E, are approved engine models.

型号认可证数据单编号: VTC0077E

Validation Type Certificate Data Sheet No. VTC0077E

本数据单是型号认可证（编号：VTC0077E）的一部分，它规定了一些条件和限制，在此条件和限制下，获得本型号认可证的产品满足下述“认可审定基础”段落给出的适航要求。

This data sheet which is a part of Validation Type Certificate (No. VTC0077E) prescribes conditions and limitations under which the product for which the Validation Type Certificate was issued meets the airworthiness requirements indicated in “Validation Basis” paragraph.

型号合格证持有人: CFM国际公司S.A.
Certificate Holder: CFM International, S.A.
2 Boulevard du General Martial Valin
75015 Paris, France

F A A 型号合格证No.E00055EN 和数据单第6版，批准日期：2006年6月14日
The American FAA approved type Certificate is No E00055EN with Data Sheet revision 6 on June 14, 2006.

型号 / Models	FAA批准日期 / <u>FAA Approval Date</u>	CAAC生效日期 / <u>CAAC Validation Date</u>
CFM56-7B18/3	JUN 14, 2006	2007-10-16
CFM56-7B20/3	JUN 14, 2006	
CFM56-7B22/3	JUN 14, 2006	
CFM56-7B24/3	JUN 14, 2006	
CFM56-7B26/3	JUN 14, 2006	
CFM56-7B27/3	JUN 14, 2006	

型号合格证持有人: CFM国际公司S.A.
TYPE CERTIFICATE (TC) HOLDER: CFM International, S.A.
2 Boulevard du General Martial Valin
75015 Paris, France

I. 型号 / MODELS	CFM56-7B18/3	CFM56-7B20/3	CFM56-7B22/3	CFM56-7B24/3
类型 TYPE	高涵道比涡轮风扇,有多级低压涡轮驱动的同轴前置风扇/增压器, 一级高压涡轮带动多级压气机 CFM56-7B/3 series系列: 改进的低排放单环型燃烧室 High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine, multi-stage compressor with one-stage high pressure turbine CFM56-7B/3 series: improved emissions single annular combustor			
额定功率 RATINGS				
海平面起飞静态推力(5分钟), 磅 Takeoff (5 min), sea level, static thrust, lb.	19,500/ 8,674 daN	20,600/ 9,163 daN	22,700/ 10,097 daN	24,200/ 10,765 daN
海平面最大持续静态推力, 磅 Maximum continuous, sea level static thrust, lb.	18,800/ 8,363 daN	19,400/ 8,630 daN	22,300/ 9,920 daN	22,800/ 10,142 daN
平台功率Flat rating	环境温度AMBIENT TEMPERATURE			
起飞 Takeoff	86°F / 30°C	--	--	--
最大持续 Maximum continuous	77°F / 25°C	--	--	--
燃油系统 FUEL SYSTEM				
燃油泵 / SNECMA件号(P/N) (复合型增压器和单级齿轮泵) Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)	340-402-104 340-402-105	-- --	-- --	-- --
液压机械组件/(GE件号) Hydromechanical unit / GE P/N	1853M56	--	--	--
电子控制组件 / GE件号 Electronic control unit / GE P/N	1851M50	--	--	--
- 硬件Hardware	1853M33	--	--	--
	2042M67	--	--	--
	2044M16	--	--	--
-软件 Software	1853M78	--	--	--
	2044M25	--	--	--
识别销钉/ SNECMA件号 Identification plugs / SNECMA P/N	340-203-101	340-203-201	340-203-301	340-203-401
滑油 OIL	合成型符合GE规范D50TF1, 类型 I 和类型 II CFM国际服务通告CFM56-7B 79-001列出审批过的滑油牌号 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFM International Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 IGNITION SYSTEM	GE 件号GE P/N			
两个点火组件: Two ignition units	9238M66	--	--	--
Unison	1538M69	--	--	--
Simmonds				
两个点火嘴 Two igniter plugs	1374M12	--	--	--
Unison	1374M13	--	--	--
Champion				

主要尺寸 PRINCIPAL DIMENSIONS

长度 (风扇机匣前法兰到LPT框架后法兰)

Length (fan case forward flange to LPT frame aft flange)

宽度(最大包容)

Width (maximum envelope)

高度 (风扇机匣前法兰外径)

Height (fan case forward flange outer diameter)

重量(净)/WEIGHT (dry)

磅 / Pounds

公斤 / Kilograms

重心位置 / CENTER OF GRAVITY LOCATIONS

英寸 Inches

毫米 Millimeters

英寸 / 毫米 INCHES / MILLIMETERS

98.7/2507.5	--	--	--
83.4/2118.0	--	--	--
72.0/1829.0	--	--	--
包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监控设备 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
5260.0	--	--	--
2385.9	--	--	--
站位, 仅对发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
207.4± 1.0	--	--	--
5269± 25	--	--	--

II. MODELS	CFM56-7B26/3	CFM56-7B27/3			
形式 / TYPE	高涵道比,有多级低压涡轮驱动的同轴前置风扇/增压器, 一级高压涡轮带动多级压气机 CFM56-7B/3 series系列: 改进单环型燃烧室排放 High bypass turbofan; coaxial front fan/booster driven by multi-stage low pressure turbine, multi-stage compressor with one-stage high pressure turbine CFM56-7B/3 series: improved emissions single annular combustor				
额定功率 RATINGS					
海平面起飞静态推力(5分钟), 磅 Takeoff (5 min), sea level, static thrust, lb.	26,300/ 11,699 daN	27,300/ 12,143 daN			
海平面最大持续静态推力, 磅 Maximum continuous, sea level static thrust, lb	25,900/ 11,521 daN	25,900/ 11,521 daN			
平台 Flat rating	环境温度 / AMBIENT TEMPERATURE				
起飞 Takeoff	86°F / 30°C	--			
最大持续 Maximum continuous	77°F / 25°C	--			
燃油系统 / FUEL SYSTEM					
燃油泵 / SNECMA件号(P/N) (复合型增压器和单级齿轮泵) Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)	340-402-104 340-402-105	-- --			
液压机械组件/(GE件号) Hydromechanical unit / GE P/N	1853M56	--			

电子控制组件 / GE件号
Electronic control unit / GE
P/N
- 硬件 Hardware

-软件 Software

识别销钉 / SNECMA件号
Identification plugs /
SNECMA P/N

滑油 / OIL

点火系统 / IGNITION SYSTEM

两个点火组件
Two ignition units
Unison
Simmonds

两个点火嘴
Two igniter plugs
Unison
Champion

主要尺寸 / PRINCIPAL DIMENSIONS

长度 (风扇机匣前法兰到
LPT框架后法兰)

Length (fan case forward
flange to LPT frame aft
flange)

宽度(最大包容)

Width (maximum envelope)

高度 (风扇机匣前法兰外径)
Height (fan case forward
flange outer diameter)

重量(净) / WEIGHT (dry)

磅 / Pounds

公斤 / Kilograms

重心位置 / CENTER OF GRAVITY LOCATIONS

英寸 Inches

毫米 Millimeters

1851M50	--			
1853M33	--			
2042M67	--			
2044M16	--			
1853M78	--			
2044M25	--			
340-203-501	340-203-601			
合成型符合GE规范D50TF1, 类型 I 和类型 II CFM国际服务通告CFM56-7B 79-001审批过的滑油牌号 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFM International Service Bulletin CFM56-7B 79-001 list approved brand oils.				
GE件号 GE P/N				
9238M66	--			
1538M69	--			
1374M12	--			
1374M13	--			
英寸 / 毫米 INCHES / MILLIMETERS				
98.7/2507.5	--			
	--			
83.4/2118.0	--			
72.0/1829.0	--			
包括制造商说明中列出的基本发动机附件和可选设备, 和发动机所安装的状态监控设备 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.				
5260	--			
2385.9	--			
站位, 仅对发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)				
207.4 ± 1.0	--	--	--	
5269 ± 25	--	--	--	

**FAA 审定基础 / FAA
CERTIFICATION BASIS**

1. 1965年2月1日生效的联邦法规汇编14集第33部的1到15修正案。
1. 14 CFR Part 33 effective February 1, 1965, with Amendments 33-1 through 33-15 thereto.
2. 所有发动机型号符合1990年9月10日生效的14 CFR 34章和34-1 到 34-3修订的排放要求.而且, CFM56-7B/3系列发动机满足 2005年 12月19日生效的40 CFR 章节 87要求, 以后14 CFR 章节 34修订加入该要求时也能满足。
2. All engine models are in compliance with the emissions requirements in 14 CFR Part 34, effective September 10, 1990, as amended by 34-1 through 34-3. In addition the CFM56-7B/3 series engines are in compliance with 40 CFR Part 87, effective December 19, 2005 until such time as 14 CFR Part 34 is amended to include such requirements..

型号/MODEL	FAA 申请日期 / FAA APPLICATION DATE	FAA 型号合格证颁布 /修订 FAA TYPE CERTIFICATE ISSUED/AMENDED	型号合格证撤消 /TYPE CERTIFICATE WITHDRAWN
CFM56-7B18/3	APR 23, 2004	JUN 14, 2006	
CFM56-7B20/3	APR 23, 2004	JUN 14, 2006	
CFM56-7B22/3	APR 23, 2004	JUN 14, 2006	
CFM56-7B24/3	APR 23, 2004	JUN 14, 2006	
CFM56-7B26/3	APR 23, 2004	JUN 14, 2006	
CFM56-7B27/3	APR 23, 2004	JUN 14, 2006	

**CAAC 审定基础 /
CERTIFICATION BASIS**

CAAC 接受FAA的审定基础作为认可审定基础
CAAC accepts FAA certification basis as validation basis for this validation program

**生产基础 /
PRODUCTION BASIS**

通用电气公司根据CFM国际公司S.A的授权依照生产许可No.108在美国生产
Production Certificate No. 108 for engines produced in the United States by General Electric under license from CFM International, S.A.

进口要求 /

IMPORT REQUIREMENTS

型号合格证持有人—CFM 国际公司 S.A., 由法国国营发动机生产联合体 (SNECMA) 和通用电气 (GE) 共同建立并拥有, 负责CFM56系列发动机的认证、销售和支援。关于用于生产的型号合格证利益, 通用电气和SNECMA根据CFM国际公司协议共同行使。

The type certificate holder, CFM International, S.A., is a company established and jointly owned by Societe Nationale l'Etude et de Construction de Moteurs d'Aviation (SNECMA) of France and the General Electric Company for the certification, sale, and support of CFM56 series engines.

With respect to the benefits of type certification for production, General Electric and SNECMA function as licensees of CFM International, S.A.

本型号合格证适用于在美国根据型号合格证E00055EN生产的发动机,也适用于根据FAA型号合格证 E00056EN在法国生产的发动机。根据两种合格证之一(通用电气和法国Sneema)生产的发动机都有CFM国际公司完全支持,由一样的零件组装,完全互换。类此,在法国生产的单元体,组件,或零件都可以在依据此型号合格证生产的发动机上使用,如果SNECMA公司依据欧洲航空安全委员会(EASA)生产许可证FR.21G.0007签署批准许可(EASA表1-授权放行许可或者JAA 表1),并将此表附于每一个产品或者附于产品运输的发票上。(见14 CFR § 21.502)

This type certificate applies to engines produced in the United States to Type Certification No. E00055EN and to engines of the same model designation produced in France to FAA Type Certificate No. E00056EN. Engines produced by either licensee (General Electric or SNECMA of France) are fully supported by CFM International, are assembled with identical parts and are fully interchangeable. Similarly, modules, assemblies, or parts produced in France are eligible for use in engines produced under this type certificate provided an airworthiness approval tag, (EASA Form 1 – Authorized Release Certificate or JAA Form 1), issued by SNECMA under authority of the European Aviation Safety Agency (EASA) Production Certificate No. FR.21G.0007 attached to each item or invoice covering a shipment of similar items (Ref. 14 CFR § 21.502).

通用电气生产的发动机通过在序号加偶数前缀来识别 (如“874”, “876”, “888”, “890”, “892”, “654”).

These engines, when produced by General Electric, are identified by an even numbered serial number prefix (i.e., “874”, “876”, “888”, “890”, “892”, “654”).

SNECMA生产的发动机通过在序号加标奇数的前缀来识别 (如 “875”, “877”, “889”, “891”, “893”, “655”).

All engines identified by an odd numbered prefix (i.e., “875”, “877”, “889”, “891”, “893”, “655”) will be produced by SNECMA.