

型号认可证数据单
THE VALIDATION DATA SHEET

编号/No: VTC0077E

版次/Revision: 7

型号/Type: CFM56-7B serials

型别/Model:

CFM56-7B20	CFM56-7B22	CFM56-7B24
CFM56-7B26	CFM56-7B27	CFM56-7B26/B2
CFM56-7B20/3	CFM56-7B22/3	CFM56-7B22/3B1
CFM56-7B24/3	CFM56-7B24/3B1	CFM56-7B26/3
CFM56-7B26/3F	CFM56-7B26/3B1	CFM56-7B26/3B2
CFM56-7B26/3B2F	CFM56-7B27/3	CFM56-7B27/3B1
CFM56-7B27/3 B1F	CFM56-7B27/3B3	CFM56-7B27/3F
CFM56-7B20E	CFM56-7B22E	CFM56-7B22E/B1
CFM56-7B24E	CFM56-7B24E/B1	CFM56-7B26E
CFM56-7B26E/ F	CFM56-7B26E/ B1	CFM56-7B26E/B2
CFM56-7B26E/ B2F	CFM56-7B27E	CFM56-7B27E/B1
CFM56-7B27E/B1F	CFM56-7B27E/B3	CFM56-7B27E/F
CFM56-7B27/B3		

批准人/Approved By:



职务/Title: Deputy Director General

日期/Date: 2025-07-22

本数据单是型号认可证（编号：VTC0077E）的组成部分，它规定了符合中国民用航空局的适航要求所颁发此型号认可证的产品的状态和限制。

This data sheet, which is part of Validation of Type Certificate (No: VTC0077E), prescribes condition and limitation under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

型号认可证持有人/Validation of Type Certificate Holder:

CFM International,S.A.

2 Boulevard du General Martial Valin; 75015 Paris, France

第1部分 概述
SECTION 1 GENERAL

1. CAAC认可数据单和型号合格证数据单/CAAC Validation Data Sheet and Type Certificate Data Sheet

	中国民用航空局认可数据单号、版次和颁发日期 CAAC Validation Data Sheet Number, Revision and issuance date	型号合格证数据单号、版次和颁发日期 Type Certificate Data Sheet Number, Revision and issuance date
当前 Current	No. VTC0077E, 版次 7, 2025 年 7 月 22 日 No. VTC0077E, Revision 7, July 22, 2025	FAA TCDS No. E00055EN, E00056EN, 版次 11, 2024 年 8 月 19 日 FAA TCDS No. E00055EN, E00056EN, Revision 11*, August 19, 2024
历史 History	No. VTC0077E, 版次 6, 2024 年 2 月 5 日 No. VTC0077E, Revision 6, February 5, 2024	FAA TCDS No. E00055EN, E00056EN, 版次 10, 2014 年 5 月 1 日 FAA TCDS No. E00055EN, E00056EN, Revision 10*, May 1, 2014
	No. VTC0077E, 版次 5, 2016 年 9 月 13 日 No. VTC0077E, Revision 5, September 13, 2016	FAA TCDS No. E00055EN, E00056EN, 版次 10, 2014 年 5 月 1 日 FAA TCDS No. E00055EN, E00056EN, Revision 10*, May 1, 2014
	No. VTC0077E, 版次 4, 2011 年 7 月 7 日 No. VTC0077E, Revision 4, July 7, 2011	FAA TCDS No. E00055EN, E00056EN, 版次 8, 2010 年 7 月 30 日 FAA TCDS No. E00055EN, E00056EN, Revision 8*, July 30, 2010
	No. VTC0077E, 版次 3, 2010 年 12 月 27 日 No. VTC0077E, Revision 3, December 27, 2010	FAA TCDS No. E00055EN, E00056EN, 版次 7, 2008 年 10 月 17 日 FAA TCDS No. E00055EN, E00056EN, Revision 7, Oct. 17, 2008
	No. VTC0077E, 版次 2, 2010 年 1 月 29 日 No. VTC0077E, Revision 2, January 29, 2010	FAA TCDS No. E00055EN, E00056EN, 版次 7, 2008 年 10 月 17 日 FAA TCDS No. E00055EN, E00056EN, Revision 7, Oct. 17, 2008
	No. VTC0077E, 版次 1, 2007 年 10 月 16 日 No. VTC0077E, Revision 1, October 16, 2007	FAA TCDS No. E00055EN, E00056EN, 版次 6, 2006 年 6 月 14 日 FAA TCDS No. E00055EN, E00056EN, Revision 6, Jun. 14, 2006
	No. VTC0077E, 版次 0, 1998 年 5 月 03 日 No. VTC0077E, Revision 0, May 3, 1998	FAA TCDS No. E00055EN, E00056EN, 版次 4, 1997 年 11 月 14 日 FAA TCDS No. E00055EN, E00056EN, Revision 4, Nov 14, 1997

注：上表中出口国局方型号合格证数据单信息仅供参考
Note: Above TCDS information of Certification Authority is only for reference

CAAC 认可数据单修订情况说明 / CAAC VTCDS Change Record

CAAC 认可数据单版次/ CAAC VTCDS Revision	相对上一版次的修订情况/ CAAC VTCDS Change Record	备注 Remark
版次 7/Rev 7	1. 更新 CFM56-7B20E, CFM56-7B22E, CFM56-7B22E/B1, CFM56-7B24E, CFM56-7B24E/B1, CFM56-7B26E, CFM56-7B26E/B1, CFM56-7B26E/B2, CFM56-7B26E/F, CFM56-7B26E/B2F, CFM56-7B27E, CFM56-7B27E/B1, CFM56-7B27E/B3, CFM56-7B27E/F, CFM56-7B27E/B1F 发动机型别的排放标准要求 Update the emission standard requirements for engine types CFM56-7B20E, CFM56-7B22E, CFM56-7B22E/B1, CFM56-7B24E, CFM56-7B24E/B1, CFM56-7B26E, CFM56-7B26E/B1, CFM56-7B26E/B2, CFM56-7B26E/F, CFM56-7B26E/B2F, CFM56-7B27E, CFM56-7B27E/B1, CFM56-7B27E/B3, CFM56-7B27E/F, and CFM56-7B27E/B1F.	
版次 6/Rev 6	1. 增加 CAAC 专用要求：燃油排泄和排气排出物 CCAR-34-R1 Add CAAC Special Requirements: fuel venting and exhaust emissions requirements CCAR-34-R1 2. 更改 CAAC 关于 3 号燃油专用要求表述 Changes of description of CAAC Special Requirements about “No.3 Jet Fuel”	本版本认可数据单对应的FAA 数据单版本与版次5对应的FAA 数据单版本一致 VTCDS Rev 6 corresponds to the same FAA TCDS as VTCDS Rev 5

2. 类别/Category:

航空发动机/Aeroengine
3. 认可当局/Validation Authority:
审定当局/Certifying Authority:

中国民用航空局/CAAC
美国联邦航空局/FAA
4. 型号合格证持有人/Type Certificate Holder:

CFM International, S.A.
2 Boulevard du General Martial Valin
75015 Paris, France
5. ETOPS:

不适用/NA
6. CAAC 专用要求/Special Requirements:

(1) 中华人民共和国国家标准 “3 号喷气燃料”

(GB 6537)

National Standard of the People's Republic of China
“No.3 Jet Fuel” (GB 6537)

(2) 燃油排泄和排气排出物规定 CCAR-34-R1

Fuel venting and exhaust emissions requirements CCAR-
34-R1

第2部分 SECTION 2

I. 型别/MODELS	CFM56-7B20	CFM56-7B22	CFM56-7B24	
类型/TYPE	高涵道比涡轮风扇发动机；多级低压涡轮驱动同轴前置风扇/增压器，一级高压涡轮驱动多级压气机 CFM56-7B 系列：单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3F 系列：改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列：改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			
额定值 （见注 4） RATINGS (See NOTE 4) 起飞（5 分钟，见注 13），海平面，静态推力，磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb. 最大连续，海平面，静态推力，磅/Maximum continuous, sea level static thrust, lb. 平台额定值 Flat rating 起飞/Takeoff 最大连续/Maximum continuous	20,600/ 9,163 daN 19,400/ 8,630 daN	22,700/ 10,097 daN 22,300/ 9,920 daN	24,200/ 10,765 daN 22,800/ 10,142 daN	
燃油系统 / FUEL SYSTEM 燃油泵 / SNECMA 件号 （组合增压和单级齿轮泵） Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump) 液压机械组件/GE 件号 Hydromechanical unit / GE P/N 电子控制组件/GE 件号 Electronic control unit / GE P/N -硬件 Hardware - 软件 Software	环境温度/AMBIENT TEMPERATURE 86°F/30°C 77°F/25°C 经批准的燃油见注 7/See NOTE 7 for approved fuels.			
	340-402-104 340-402-105	-- --	-- --	
	1853M56 1851M50 1853M33 2042M67 2044M16	-- -- -- -- --	-- -- -- -- --	
	1853M78 2044M25	-- --	-- --	

型别/MODELS	CFM56-7B20	CFM56-7B22	CFM56-7B24	
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	340-131-712 340-131-717 340-203-201 340-198-850 340-198-950	340-131-721 340-131-726 340-203-301 340-199-250 340-199-350	340-131-732 340-131-737 340-203-401 340-200-050 340-200-150	
滑油/OIL	合成型，符合GE规范D50TF1，类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM 双点火组件 Two ignition units Unison Simmonds 双点火嘴 Two igniter plugs Unison Champion	GE 件号/GE P/N			
	9238M66 1538M69	-- --	-- --	
	1374M12 1374M13	-- --	-- --	
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			

长度（风扇机匣前法兰到低压涡轮后法兰）/ Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	
宽度（最大轮廓）/ Width (maximum envelope)	83.4/2118.0	--	--	
高度（风扇机匣前法兰外径）/ Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	
重量（干重）/ WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备，包括安装的发动机状态监控仪表的部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds	5260.0	--	--	
千克/Kilograms	2385.9	--	--	
重心位置/ CENTER OF GRAVITY LOCATIONS	站位，仅发动机（参考安装图纸） STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches	207.4±1.0	--	--	
毫米/Millimeters	5269±25	--	--	

II. 型别/MODELS	CFM56-7B26	CFM56-7B27			
类型/TYPE	高涵道比涡轮风扇，多级低压涡轮驱动同轴前置风扇/增压器，1级高压涡轮驱动多级压气机 CFM56-7B 系列：单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3F 系列：改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列：改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance				
额定值（见注 4） RATINGS (See NOTE 4)					
起飞（5 分钟，见注 13），海平面，静态推力，磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb.	26,300/ 11,699 daN	27,300/ 12,143 daN			
最大连续，海平面，静态推力，磅/Maximum continuous, sea level static thrust, lb.	25,900/ 11,521 daN	25,900/ 11,521 daN			
平台额定值 Flat rating	环境温度/AMBIENT TEMPERATURE				
起飞/Takeoff	86°F/30°C	--			
最大连续/Maximum continuous	77°F/25°C	--			
燃油系统 / FUEL SYSTEM	经批准的燃油见注 7/See NOTE 7 for approved fuels.				
燃油泵 / SNECMA 件号 （组合增压和单级齿轮泵） 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 电子控制组件/GE 件号 Electronic control unit / GE P/N -硬件 Hardware	1853M56 1851M50 1853M33 2042M67 2044M16	-- -- -- --			
-软件 Software	1853M78 2044M25	-- --			

型别/MODELS	CFM56-7B26	CFM56-7B27			
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	340-131-742 340-131-747 340-203-501 340-200-850 340-200-950	340-131-752 340-131-757 340-203-601 340-201-450 340-201-550			
滑油/OIL	合成型, 符合GE规范D50TF1, 类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.				
点火系统 / IGNITION SYSTEM	GE 件号/GE P/N				
双点火组件 Two ignition units					
Unison	9238M66	--			
Simmonds	1538M69	--			
双点火嘴 Two igniter plugs					
Unison	1374M12	--			
Champion	1374M13	--			
主要尺寸/ PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS				
长度 (风扇机匣前法兰到低压涡轮后法兰) / Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--			
宽度 (最大轮廓) / Width (maximum envelope)	83.4/2118.0	--			
高度 (风扇机匣前法兰外径) / Height (fan case forward flange outer diameter)	72.0/1829.0	--			
重量 (干重) / WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备, 包括发动机状态监控仪表的安装部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.				
磅/Pounds	5260	--			
千克/Kilograms	2385.9	--			
重心位置/ CENTER OF GRAVITY LOCATIONS	站位, 仅发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)				
英尺/Inches	207.4±1.0	--			
毫米/Millimeters	5269±25	--			

IV. 型别/MODELS	CFM56-7B27/B3		
类型/TYPE	高涵道比涡轮风扇发动机; 多级低压涡轮驱动同轴前置风扇/增压器, 一级高压涡轮驱动多级压气机 CFM56-7B 系列: 单环腔燃烧室 CFM56-7B/3 系列: 改进排放的单环腔燃烧室 CFM56-7B/3F 系列: 改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列: 改进了高压压气机扩压器, 高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance		
额定值 (见注 4) RATINGS (See NOTE 4)			
起飞 (5 分钟, 见注 13), 海平面, 静态推力, 磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb.	27,300/ 12,143 daN		
最大连续, 海平面, 静态推力, 磅/Maximum continuous, sea level static thrust, lb.	25,900/ 11,521 daN		

平台额定值 Flat rating	环境温度/AMBIENT TEMPERATURE		
起飞/Takeoff		86°F/30°C	
最大连续/Maximum continuous		77°F/25°C	
燃油系统 / FUEL SYSTEM	经批准的燃油见注 7/See NOTE 7 for approved fuels.		
燃油泵 / SNECMA 件号		340-402-104	
(组合增压和单级齿轮泵)		340-402-105	
Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)			
液压机械组件/GE 件号		1853M56	
Hydromechanical unit / GE P/N		1851M50	
电子控制组件/GE 件号		1853M33	
Electronic control unit / GE P/N		2042M67	
- 硬件 Hardware		2044M16	
		1853M78	
- 软件 Software		2044M25	

型别/MODELS		CFM56-7B27/B3		
识别插钉/SNECMA 件号		340-143-441		
Identification plugs / SNECMA P/N		340-143-451		
		340-203-631		
		340-202-050		
		340-202-150		
滑油/OIL	合成型, 符合GE规范D50TF1, 类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM	GE 件号/GE P/N			
双点火组件 Two ignition units				
Unison		9238M66		
Simmonds		1538M69		
双点火嘴 Two igniter plugs				
Unison		1374M12		
Champion		1374M13		
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度 (风扇机匣前法兰到低压涡轮后法兰) /Length (fan case forward flange to LPT frame aft flange)		98.7/2507.5		
宽度 (最大轮廓) /Width (maximum envelope)		83.4/2118.0		
高度 (风扇机匣前法兰外径) /Height (fan case forward flange outer diameter)		72.0/1829.0		
重量 (干重) / WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备, 包括安装的发动机状态监控仪表的部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds		5260.0		
千克/Kilograms		2385.9		
重心位置/ CENTER OF GRAVITY LOCATIONS	站位, 仅发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches		207.4±1.0		
毫米/Millimeters		5269±25		

V. 型别/MODELS	CFM56-7B26/B2	CFM56-7B26/3B2		
类型/TYPE 高涵道比涡轮风扇，多级低压涡轮驱动同轴前置风扇/增压器，1级高压涡轮驱动多级压气机 CFM56-7B 系列: 单环腔燃烧室 CFM56-7B/3 系列: 改进排放的单环腔燃烧室 CFM56-7B/3 系列: 改进排放的单环腔燃烧室 CFM56-7B/3F 系列: 改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列: 改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance				
额定值 (见注 4) RATINGS (See NOTE 4) 起飞 (5 分钟, 见注 13), 海平面, 静态推力, 磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb. 最大连续, 海平面, 静态推力, 磅/Maximum continuous, sea level static thrust, lb 平台额定值 Flat rating 起飞/Takeoff 最大连续/Maximum continuous	26,300/ 11,699 daN 22,800/ 10,142 daN	26,300/ 11,699 daN 22,800/ 10,142 daN		
	环境温度/AMBIENT TEMPERATURE			
	95°F / 35°C	--		
	77°F / 25°C	--		
燃油系统 / FUEL SYSTEM 燃油泵 / SNECMA 件号 (组合增压和单级齿轮泵) Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump) 液压机械组件/GE 件号 Hydromechanical unit / GE P/N 电子控制组件/GE 件号 Electronic control unit / GE P/N -硬件 Hardware -软件 Software	经批准的燃油见注 7/See NOTE 7 for approved fuels.			
	340-402-104 340-402-105	340-402-105		
	1853M56	--		
	1851M50	--		
	1853M33	--		
	2042M67	--		
	2044M16	--		
	1853M78	--		
	2044M25	--		

型别/MODELS	CFM56-7B26/B2	CFM56-7B26/3B2		
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N 滑油/OIL	340-203-521	340-203-521		
	合成型, 符合GE规范D50TF1, 类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM 双点火组件Two ignition units Unison Simmonds	GE 件号/GE P/N			
	9238M66 1538M69	-- --		
双点火嘴 Two igniter plugs Unison Champion	1374M12 1374M13	-- --		
主要尺寸/PRINCIPAL DIMENSIONS 长度 (风扇机匣前法兰到低压涡轮后法兰) / Length (fan case forward flange to LPT frame aft flange) 宽度 (最大轮廓) Width (maximum envelope) 高度 (风扇机匣前法兰外径) Height (fan case forward flange outer diameter)	英寸/毫米 INCHES / MILLIMETERS			
	98.7/2507.5	--		
	83.4/2118.0	--		
	72.0/1829.0	--		

重量 (干重) / WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备, 包括发动机状态监控仪表的安装部分。Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.		
磅/Pounds	5260	--	
千克/Kilograms	2385.9	--	
重心位置/ CENTER OF GRAVITY LOCATIONS	站位, 仅发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)		
英尺/Inches	207.4±1.0	--	
毫米/Millimeters	5269±25	--	

VI. 型别/MODELS	CFM56-7B20/3	CFM56-7B22/3	CFM56-7B24/3	
类型/TYPE	高涵道比涡轮风扇, 多级低压涡轮驱动同轴前置风扇/增压器, 1 级高压涡轮驱动多级压气机 CFM56-7B 系列: 单环腔燃烧室 CFM56-7B/3 系列: 改进排放的单环腔燃烧室 CFM56-7B/3 系列: 改进排放的单环腔燃烧室 CFM56-7B/3F 系列: 改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列: 改进了高压压气机扩压器, 高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			
额定值 (见注 4) RATINGS (See NOTE 4)	20,600/ 9,163 daN	22,700/ 10,097 daN	24,200/ 10,765 daN	
起飞 (5 分钟, 见注 13), 海平面, 静态推力, 磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb.				
最大连续, 海平面, 静态推力, 磅/Maximum continuous, sea level static thrust, lb.	19,400/ 8,630 daN	22,300/ 9,920 daN	22,800/ 10,142 daN	
平台额定值 Flat rating	环境温度/AMBIENT TEMPERATURE			
起飞/Takeoff	86°F/30°C	--	--	
最大连续/Maximum continuous	77°F/25°C	--	--	
燃油系统 / FUEL SYSTEM	经批准的燃油见注 7/See NOTE 7 for approved fuels.			
燃油泵 / SNECMA 件号 (组合增压和单级齿轮泵) Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)	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	--	--	

型别/MODELS	CFM56-7B20/3	CFM56-7B22/3	CFM56-7B24/3	
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	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 CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM	GE 件号/GE P/N			

双点火组件Two ignition units	9238M66	--	--	
Unison	1538M69	--	--	
Simmonds				
双点火嘴 Two igniter plugs	1374M12	--	--	
Unison	1374M13	--	--	
Champion				
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度（风扇机匣前法兰到低压涡轮后法兰）/Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	
宽度（最大轮廓）/Width (maximum envelope)	83.4/2118.0	--	--	
高度（风扇机匣前法兰外径）/Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	
重量（干重）/WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备，包括发动机状态监控仪表的安装部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds	5260	--	--	
千克/Kilograms	2385.9	--	--	
重心位置/CENTER OF GRAVITY LOCATIONS	站位，仅发动机（参考安装图纸） STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches	207.4±1.0	--	--	
毫米/Millimeters	5269±25	--	--	

VII. 型号/MODELS	CFM56-7B26/3	CFM56-7B27/3	CFM56-7B26/3B1	
类型/TYPE	高涵道比涡轮风扇，多级低压涡轮驱动同轴前置风扇/增压器，1级高压涡轮驱动多级压气机 CFM56-7B 系列：单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3F 系列：改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列：改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			
额定值（见注 4）RATINGS (See NOTE 4)	26,300/ 11,699 daN	27,300/ 12,143 daN	26,300/ 11,699 daN	
起飞（5 分钟，见注 13），海平面，静态推力，磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb.				
最大连续，海平面，静态推力，磅/Maximum continuous, sea level static thrust, lb.	25,900/ 11,521 daN	25,900/ 11,521 daN	25,900/ 11,521 daN	
平台额定值 Flat rating	环境温度/AMBIENT TEMPERATURE			
起飞/Takeoff	86°F/30°C	--	--	
最大连续/Maximum continuous	77°F/25°C	--	--	
燃油系统 / FUEL SYSTEM	经批准的燃油见注 7/See NOTE 7 for approved fuels.			
燃油泵 / SNECMA 件号（组合增压和单级齿轮泵） Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)	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	1851M50	--	--	
	1853M33	--	--	
	2042M67	--	--	
	2044M16	--	--	
- 软件 software	1853M78	--	--	
	2044M25	--	--	

型别/MODELS	CFM56-7B26/3	CFM56-7B27/3	CFM56-7B26/3B1	
滑油/OIL	合成型，符合GE规范D50TF1，类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM	GE 件号/GE P/N			
双点火组件Two ignition units				
Unison	9238M66	--	--	
Simmonds	1538M69	--	--	
双点火嘴 Two igniter plugs				
Unison	1374M12	--	--	
Champion	1374M13	--	--	
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度（风扇机匣前法兰到低压涡轮后法兰）/Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	
宽度（最大轮廓）/Width (maximum envelope)	83.4/2118.0	--	--	
高度（风扇机匣前法兰外径）/Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	
重量（干重） / WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备，包括发动机状态监控仪表的安装部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds	5260	--	--	
千克/Kilograms	2385.9	--	--	
重心位置 / CENTER OF GRAVITY LOCATIONS	站位，仅发动机（参考安装图纸） STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches	207.4±1.0	--	--	
毫米/Millimeters	5269±25	--	--	

VIII. 型别/MODELS	CFM56-7B27/3F	CFM56-7B27/3B1F	CFM56-7B26/3F	CFM56-7B26/3B2F
类型/TYPE	高涵道比涡轮风扇，多级低压涡轮驱动同轴前置风扇/增压器，1 级高压涡轮驱动多级压气机 CFM56-7B 系列：单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3F 系列：改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列：改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			

额定值 (见注 4) RATINGS (See NOTE 4) 起飞 (5 分钟, 见注 13), 海平面, 静态推力, 磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb. 最大连续, 海平面, 静态推力, 磅/Maximum continuous, sea level static thrust, lb. 平台额定值 Flat rating 起飞/Takeoff 最大连续/Maximum continuous 燃油系统 / FUEL SYSTEM 燃油泵 / SNECMA 件号 (组合增压和单级齿轮泵) Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump) 液压机械组件/GE 件号 Hydromechanical unit / GE P/N 电子控制组件/GE 件号 Electronic control unit / GE P/N - 硬件 Hardware - 软件 software	27,300/ 12,143 daN	-- --	26,300/ 11,699 daN	-- --
	25,900/ 11,521 daN	-- --	25,900/ 11,521 daN	22,800/ 10,142 daN
	环境温度/AMBIENT TEMPERATURE			
	86°F/30°C	--	--	--
	77°F/25°C	--	--	--
	经批准的燃油见注 7/See NOTE 7 for approved fuels.			
	340-402-105	--	--	--
	1853M56	--	--	--
	1851M50 1853M33 2042M67 2044M16			
	1853M78 2044M25			

型别/MODELS	CFM56-7B27/3F	CFM56-7B27/3B1F	CFM56-7B26/3F	CFM56-7B26/3B2F
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	340-205-001	340-205-111	340-205-101	340-205-021
滑油/OIL	合成型, 符合GE规范D50TF1, 类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM	GE 件号/ GE P/N			
双点火组件Two ignition units Unison Simmonds	9238M66 1538M69	-- --	-- --	-- --
双点火嘴 Two igniter plugs Unison Champion	1374M12 1374M13	-- --	-- --	-- --
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度 (风扇机匣前法兰到低压涡轮后法兰) / Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	--
宽度 (最大轮廓) Width (maximum envelope)	83.4/2118.0	--	--	--
高度 (风扇机匣前法兰外径) Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	--
重量 (干重) / WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备, 包括发动机状态监控仪表的安装部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds 千克/Kilograms	5260 2385.9	-- --	-- --	-- --
重心位置/ CENTER OF GRAVITY LOCATIONS	站位, 仅发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			

英尺/Inches	207.4±1.0	--	--	--
毫米/Millimeters	5269±25	--	--	--

IX. 型别/MODELS	CFM56-7B27/3B1	CFM56-7B27/3B3	CFM56-7B22/3B1	CFM56-7B24/3B1
类型/TYPE	高涵道比涡轮风扇发动机；多级低压涡轮驱动同轴前置风扇/增压器，一级高压涡轮驱动多级压气机 CFM56-7B 系列：单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3F 系列：改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列：改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			
额定值 （见注 4） RATINGS (See NOTE 4) 起飞（5 分钟，见注 13），海平面，静态推力，磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb. 最大连续，海平面，静态推力，磅/Maximum continuous, sea level static thrust, lb 平台额定值 Flat rating 起飞/Takeoff 最大连续/Maximum continuous	27,300/ 12,143 daN 25,900/ 11,521 daN	-- --	22,700/ 10,097 daN 22,300/ 9,920 daN	24,200/ 10,765 daN 22,800/ 10,142 daN
燃油系统 / FUEL SYSTEM	环境温度/AMBIENT TEMPERATURE			
	86°F / 30°C 77°F / 25°C	-- --	96.8°F / 36°C --	105.8°F / 41°C --
	经批准的燃油见注 7/See NOTE 7 for approved fuels.			
燃油泵 / SNECMA 件号 （组合增压和单级齿轮泵） Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)	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	1851M50 1853M33 2042M67 2044M16	-- -- -- --	-- -- -- --	-- -- -- --

型别/MODELS	CFM56-7B27/3B1	CFM56-7B27/3B3	CFM56-7B22/3B1	CFM56-7B24/3B1
- 软件 Software	1853M78 2044M25	-- --	-- --	-- --
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	340-203-611	340-203-631	340-203-311	340-203-411
滑油/OIL	合成型，符合GE规范D50TF1，类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM	GE 件号/GE P/N			

双点火组件 Two ignition units				
Unison	9238M66	--	--	--
Simmonds	1538M69	--	--	--
双点火嘴 Two igniter plugs				
Unison	1374M12	--	--	--
Champion	1374M13	--	--	--
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度（风扇机匣前法兰到低压涡轮后法兰）/ Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	--
宽度（最大轮廓）/ Width (maximum envelope)	83.4/2118.0	--	--	--
高度（风扇机匣前法兰外径）/ Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	--
重量（干重）/ WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备，包括发动机状态监控仪表的安装部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds	5260	--	--	--
千克/Kilograms	2385.9	--	--	--
重心位置/ CENTER OF GRAVITY LOCATIONS	站位，仅发动机（参考安装图纸） STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches	207.4 ± 1.0	--	--	--
毫米/Millimeters	5269 ± 25	--	--	--

X. 型号/MODELS	CFM56-7B20E	CFM56-7B22E	CFM56-7B24E	CFM56-7B24E/B1
类型/TYPE	高涵道比涡轮风扇发动机；多级低压涡轮驱动同轴前置风扇/增压器，一级高压涡轮驱动多级压气机 CFM56-7B 系列：单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3F 系列：改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列：改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			
额定值（见注 4） RATINGS (See NOTE 4)				
起飞（5 分钟，见注 13），海平面，静态推力，磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb.	20,600/ 9,163 daN	22,700/ 10,097 daN	24,200/ 10,765 daN	24,200/ 10,765 daN
最大连续，海平面，静态推力，磅/Maximum continuous, sea level static thrust, lb.	19,400/ 8,630 daN	22,300/ 9,920 daN	22,800/ 10,142 daN	22,800/ 10,142 daN
平台额定值 Flat rating	环境温度/AMBIENT TEMPERATURE			
起飞/Takeoff	86°F / 30°C	--	--	105.8°F / 41°C
最大连续/Maximum continuous	77°F / 25°C	--	--	--
燃油系统 / FUEL SYSTEM	经批准的燃油见注 7/See NOTE 7 for approved fuels.			

燃油泵/ SNECMA件号 (组合增压和单级齿轮泵) Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)	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	--	--	--

型别/MODELS	CFM56-7B20E	CFM56-7B22E	CFM56-7B24E	CFM56-7B24E/B1
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	340-203-201	340-203-301	340-203-401	340-203-411
滑油/OIL	合成型, 符合GE规范D50TF1, 类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM	GE 件号/GE P/N			
双点火组件 Two ignition units				
Unison	9238M66	--	--	--
Simmonds	1538M69	--	--	--
双点火嘴 Two igniter plugs				
Unison	1374M12	--	--	--
Champion	1374M13	--	--	--
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度 (风扇机匣前法兰到低压涡轮后法兰) /Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	--
宽度 (最大轮廓) /Width (maximum envelope)	83.4/2118.0	--	--	--
高度 (风扇机匣前法兰外径) / Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	--
重量 (干重) / WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备, 包括安装的发动机状态监控仪表的部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds	5280	--	--	--
千克/Kilograms	2395	--	--	--
重心位置/ CENTER OF GRAVITY LOCATIONS	站位, 仅发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches	207.4± 1.0	--	--	--
毫米/Millimeters	5269± 25	--	--	--

XI. 型别/MODELS	CFM56-7B26E	CFM56-7B27E	CFM56-7B26E/B1	
类型/TYPE	高涵道比涡轮风扇发动机；多级低压涡轮驱动同轴前置风扇/增压器，一级高压涡轮驱动多级压气机 CFM56-7B 系列：单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3F 系列：改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列：改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			
额定值 （见注 4） RATINGS (See NOTE 4) 起飞（5 分钟，见注 13），海平面，静态推力，磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb. 最大连续，海平面，静态推力，磅/Maximum continuous, sea level static thrust, lb. 平台额定值 Flat rating 起飞/Takeoff 最大连续/Maximum continuous	26,300/ 11,699 daN 25,900/ 11,521 daN	27,300/ 12,143 daN 25,900/ 11,521 daN	26,300/ 11,699 daN 25,900/ 11,521 daN	
燃油系统 / FUEL SYSTEM 燃油泵 / SNECMA 件号 （组合增压和单级齿轮泵） Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump) 液压机械组件/GE 件号 Hydromechanical unit / GE P/N 电子控制组件/GE 件号 Electronic control unit / GE P/N - 硬件 Hardware	环境温度/AMBIENT TEMPERATURE 86°F / 30°C 77°F / 25°C			
	经批准的燃油见注 7/See NOTE 7 for approved fuels.			
	340-402-105	--	--	
	1853M56	--	--	
	1851M50	--	--	
	1853M33	--	--	
	2042M67	--	--	
	2044M16	--	--	

型别/MODELS	CFM56-7B26E	CFM56-7B27E	CFM56-7B26E/B1	
- 软件 software	1853M78 2044M25	-- --	-- --	
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	340-203-501	340-203-601	340-203-511	
滑油/OIL	合成型，符合GE规范D50TF1，类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM 双点火组件 Two ignition units Unison Simmonds	GE 件号/GE P/N			
	9238M66 1538M69	-- --	-- --	
双点火嘴 Two igniter plugs Unison Champion	1374M12 1374M13	-- --	-- --	

主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度（风扇机匣前法兰到低压涡轮后法兰）/Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	
宽度（最大轮廓）/Width (maximum envelope)	83.4/2118.0	--	--	
高度（风扇机匣前法兰外径）/Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	
重量（干重）/ WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备，包括安装的发动机状态监控仪表的部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds	5280	--	--	
千克/Kilograms	2395	--	--	
重心位置/ CENTER OF GRAVITY LOCATIONS	站位，仅发动机（参考安装图纸） STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches	207.4 ± 1.0	--	--	
毫米/Millimeters	5269 ± 25	--	--	

XII. 型号/MODELS	CFM56-7B27E/F	CFM56-7B27E/B1F	CFM56-7B26E/F	CFM56-7B26E/B2F
类型/TYPE	高涵道比涡轮风扇发动机；多级低压涡轮驱动同轴前置风扇/增压器，一级高压涡轮驱动多级压气机 CFM56-7B 系列：单环腔燃烧室 CFM56-7B/3 系列：改进排放的单环腔燃烧室 CFM56-7B/3F 系列：改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列：改进了高压压气机扩压器，高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			
额定值（见注 4） RATINGS (See NOTE 4)				
起飞（5 分钟，见注 13），海平面，静态推力，磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb.	27,300/ 12,143 daN	-- --	26,300/ 11,699 daN	-- --
最大连续，海平面，静态推力，磅/Maximum continuous, sea level static thrust, lb.	25,900/ 11,521 daN	-- --	25,900/ 11,521 daN	22,800/ 10,142 daN
平台额定值 Flat rating	环境温度/AMBIENT TEMPERATURE			
起飞/Takeoff	86°F / 30°C	--	--	95.°F / 35°C
最大连续/Maximum continuous	77°F / 25°C	--	--	--
燃油系统 / FUEL SYSTEM	经批准的燃油见注 7/See NOTE 7 for approved fuels.			
燃油泵 / SNECMA 件号 （组合增压和单级齿轮泵） Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)	340-402-105	--	--	--
液压机机械组件/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	--	--	--

型别/MODELS	CFM56-7B27E/F	CFM56-7B27E/B1F	CFM56-7B26E/F	CFM56-7B26E/B2F
- 软件 software	1853M78 2044M25	-- --	-- --	-- --
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	340-205-001	340-205-111	340-205-101	340-205-021
滑油/OIL	合成型, 符合GE规范D50TF1, 类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM	GE 件号/GE P/N			
双点火组件 Two ignition units Unison Simmonds	9238M66 1538M69	-- --	-- --	-- --
双点火嘴 Two igniter plugs Unison Champion	1374M12 1374M13	-- --	-- --	-- --
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度 (风扇机匣前法兰到低压涡轮后法兰) /Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	--
宽度 (最大轮廓) /Width (maximum envelope)	83.4/2118.0	--	--	--
高度 (风扇机匣前法兰外径) /Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	--
重量 (干重) / WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备, 包括安装的发动机状态监控仪表的部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds 千克/Kilograms	5280 2395	-- --	-- --	-- --
重心位置/ CENTER OF GRAVITY LOCATIONS	站位, 仅发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches 毫米/Millimeters	207.4 ± 1.0 5269 ± 25	-- --	-- --	-- --

XIII. 型别/MODELS	CFM56-7B27E/B1	CFM56-7B27E/B3	CFM56-7B22E/B1	CFM56-7B26E/B2
类型/TYPE	高涵道比涡轮风扇发动机; 多级低压涡轮驱动同轴前置风扇/增压器, 一级高压涡轮驱动多级压气机 CFM56-7B 系列: 单环腔燃烧室 CFM56-7B/3 系列: 改进排放的单环腔燃烧室 CFM56-7B/3F 系列: 改进排放的单环腔燃烧室和提高了 EGT CFM56-7BE 和 7BE/F 系列: 改进了高压压气机扩压器, 高低压涡轮性能 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 series: single annular combustor CFM56-7B/3 series: improved emissions single annular combustor CFM56-7B/3F series: improved emissions single annular combustor and increased EGT CFM56-7BE and 7BE/F series: improved HPC diffuser, HPT and LPT performance			
额定值 (见注 4) RATINGS (See NOTE 4) 起飞 (5 分钟, 见注 13), 海平面, 静态推力, 磅/Takeoff (5 min. see NOTE 13), sea level, static thrust, lb.	27,300/ 12,143 daN	--	22,700/ 10,097 daN	26,300/ 10,699 daN
最大连续, 海平面, 静态推力, 磅 /Maximum continuous, sea level static thrust, lb.	25,900/ 11,521 daN	--	22,300/ 9,920 daN	22,800/ 10,142 daN

平台额定值 Flat rating	环境温度/AMBIENT TEMPERATURE			
起飞/Takeoff	86°F / 30°C	--	96.8°F / 36°C	95.°F / 35°C
最大连续/Maximum continuous	77°F / 25°C	--	--	--
燃油系统 / FUEL SYSTEM	经批准的燃油见注 7/See NOTE 7 for approved fuels.			
燃油泵 / SNECMA 件号 (组合增压和单级齿轮泵) / Fuel pump / SNECMA part number (P/N) (Combined boost and single element gear-type pump)	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	--	--	--

型别/MODELS	CFM56-7B27E/B1	CFM56-7B27E/B3	CFM56-7B22E/B1	CFM56-7B26E/B2
- 软件 software	1853M78 2044M25	-- --	-- --	-- --
识别插钉/SNECMA 件号 Identification plugs / SNECMA P/N	340-203-611	340-203-631	340-203-311	340-203-521
滑油/OIL	合成型, 符合GE规范D50TF1, 类型 I 和类型 II CFMI服务通告CFM56-7B 79-001列出经批准的滑油品牌 Synthetic type conforming to GE Specification D50TF1, Type I and Type II. CFMI Service Bulletin CFM56-7B 79-001 list approved brand oils.			
点火系统 / IGNITION SYSTEM	GE 件号/GE P/N			
双点火组件 Two ignition units Unison Simmonds	9238M66 1538M69	-- --	-- --	-- --
双点火嘴 Two igniter plugs Unison Champion	1374M12 1374M13	-- --	-- --	-- --
主要尺寸/PRINCIPAL DIMENSIONS	英寸/毫米 INCHES / MILLIMETERS			
长度 (风扇机匣前法兰到低压涡轮 后法兰) /Length (fan case forward flange to LPT frame aft flange)	98.7/2507.5	--	--	--
宽度 (最大轮廓) /Width (maximum envelope)	83.4/2118.0	--	--	--
高度 (风扇机匣前法兰外径) / Height (fan case forward flange outer diameter)	72.0/1829.0	--	--	--
重量 (干重) / WEIGHT (dry)	包含厂家发动机规范中列出的基本发动机附件和选装设备, 包括安装的发动机状态监控仪表的部分。 Includes basic engine accessories and optional equipment as listed in manufacturer's engine specification, including engine mounted portions of the condition monitoring instrumentation.			
磅/Pounds	5280	--	--	--
千克/Kilograms	2395	--	--	--
重心位置/ CENTER OF GRAVITY LOCATIONS	站位, 仅发动机 (参考安装图纸) STATION, ENGINE ONLY (REFER TO INSTALLATION DRAWING)			
英尺/Inches	207.4 ± 1.0	--	--	--
毫米/Millimeters	5269 ± 25	--	--	--

审定基础/
CERTIFICATION BASIS

1. 1965年2月1日生效的14 CFR第33部, 第1到15修正案。

14 CFR Part 33 effective February 1, 1965, with Amendments 33-1 through 33-15 thereto.

2. 以下型号符合14 CFR第34部,第5修正案, 2021年12月31日生效

The following models comply with 14 CFR part 34, amendment 5, effective December 31, 2012:

CFM56-7B20/3 CFM56-7B22/3 CFM56-7B24/3 CFM56-7B24/3B1
CFM56-7B26/3 CFM56-7B26/3B1 CFM56-7B26/3B2 CFM56-7B26/3F

CFM56-7B26/3B2F CFM56-7B27/3 CFM56-7B27/3B1 CFM56-7B27/3B3
CFM56-7B27/3F CFM56-7B27/3B1F

以下型号符合14 CFR第34部,第7A修正案, 2024年5月24日生效

The following models comply with 14 CFR part 34, amendment 7A, effective May 24, 2024:

CFM56-7B20E CFM56-7B22E CFM56-7B22E/B1 CFM56-7B24E
CFM56-7B24E/B1 CFM56-7B26E CFM56-7B26E/B1 CFM56-7B26E/B2
CFM56-7B26E/F CFM56-7B26E/B2F CFM56-7B27E CFM56-7B27E/B1
CFM56-7B27E/B3 CFM56-7B27E/F CFM56-7B27E/B1F

排放审定基础见注22.

See NOTE 22 for emissions certification basis.

型号/ MODEL	申请日期/ APPLICATION DATE	TC颁发/修订 TYPE CERTIFICATE ISSUED/AMENDED
CFM56-7B20	Nov 28, 1995	Dec 17, 1996
CFM56-7B22	Nov 28, 1995	Dec 17, 1996
CFM56-7B24	Nov 28, 1995	Dec 17, 1996
CFM56-7B26	Nov 28, 1995	Dec 17, 1996
CFM56-7B27	Nov 28, 1995	Dec 17, 1996
CFM56-7B27/B3	Jul 30, 1998	Oct 30, 1998
CFM56-7B26/B2	Aug 20, 2001	Apr 25, 2003
CFM56-7B20/3	Apr 23, 2004	Jun 14, 2006
CFM56-7B22/3	Apr 23, 2004	Jun 14, 2006
CFM56-7B22/3B1	Apr 23, 2004	Jun 14, 2006
CFM56-7B24/3	Apr 23, 2004	Jun 14, 2006
CFM56-7B24/3B1	Apr 23, 2004	Jun 14, 2006
CFM56-7B26/3	Apr 23, 2004	Jun 14, 2006
CFM56-7B26/3B1	Apr 23, 2004	Jun 14, 2006
CFM56-7B26/3B2	Apr 23, 2004	Jun 14, 2006
CFM56-7B26/3F	Dec 15, 2005	Jun 14, 2006
CFM56-7B26/3B2F	Dec 15, 2005	Jun 14, 2006
CFM56-7B27/3	Apr 23, 2004	Jun 14, 2006
CFM56-7B27/3B1	Apr 23, 2004	Jun 14, 2006
CFM56-7B27/3B3	Apr 23, 2004	Jun 14, 2006
CFM56-7B27/3F	Apr 23, 2004	Jun 14, 2006
CFM56-7B27/3B1F	Apr 23, 2004	Jun 14, 2006
CFM56-7B20E	Aug 28, 2008	Jul 30, 2010
CFM56-7B22E	Aug 28, 2008	Jul 30, 2010
CFM56-7B22E/B1	Aug 28, 2008	Jul 30, 2010
CFM56-7B24E	Aug 28, 2008	Jul 30, 2010
CFM56-7B24E/B1	Aug 28, 2008	Jul 30, 2010
CFM56-7B26E	Aug 28, 2008	Jul 30, 2010
CFM56-7B26E/B1	Aug 28, 2008	Jul 30, 2010
CFM56-7B26E/B2	Aug 28, 2008	Jul 30, 2010
CFM56-7B26E/F	Aug 28, 2008	Jul 30, 2010
CFM56-7B26E/B2F	Aug 28, 2008	Jul 30, 2010
CFM56-7B27E	Aug 28, 2008	Jul 30, 2010
CFM56-7B27E/B1	Aug 28, 2008	Jul 30, 2010
CFM56-7B27E/B3	Aug 28, 2008	Jul 30, 2010
CFM56-7B27E/F	Aug 28, 2008	Jul 30, 2010
CFM56-7B27E/B1F	Aug 28, 2008	Jul 30, 2010

CAAC 认可审定基础/ CAAC VALIDATION BASIS

接受 FAA 的审定基础作为认可审定基础。

Accept FAA certification basis as validation basis.

附加技术条件/Additional Technical Requirement:

(1) 中华人民共和国国家标准 “3 号喷气燃料” (GB 6537)

National Standard of the People's Republic of China “No.3 Jet Fuel” (GB 6537)

(2) 燃油排泄和排气排出物规定 CCAR-34-R1, 见注释 22a

Fuel venting and exhaust emissions requirements CCAR-34-R1, see NOTE 22a

生产依据/ PRODUCTION BASIS

生产许可证 No. 108, GE 根据 CFMI S.A 的许可证在美国生产 (见注 10)。

Production Certificate No. 108 for engines produced in the United States by General Electric under license from CFM International, S.A. (See NOTE 10).

进口要求/ IMPORT REQUIREMENTS

见注 10

See NOTE 10

注 1/NOTE 1

涡轮排气温度 (T495) (见注 14)
 TURBINE EXHAUST GAS (T495)
 (See NOTE 14)
 起飞/Takeoff (5 min.)
 最大连续/
 Maximum continuous
 启动/Starting
 时间温度包线
 参考型号 S.O.I.
 Time temperature envelope
 Refer to model's S.O.I.
 燃油泵进口/
 FUEL PUMP INLET
 滑油供应 (见注 18) /
 OIL SUPPLY (See NOTE 18)
 连续运行/
 Continuous operation
 瞬时 (45 分钟) /
 Transient (45 minutes)

最大许用温度 (所有型号) MAXIMUM PERMISSIBLE TEMPERATURES (ALL MODELS)	
由位于第二级低压涡轮静子叶片处的 8 个热电偶测量: As measured by a harness of eight thermocouples located at the second stage low pressure turbine vane:	
	950°C
	925°C
	725°C
	CFMI-TP.01.14
参考适当的安装手册。 REFER TO THE APPROPRIATE INSTALLATION MANUAL.	
	140°C /284°F
	155°C /311°F

注 2/NOTE 2

燃油限制
 Fuel limits

滑油限制
 Oil limits

燃油和滑油压力限制 FUEL AND OIL PRESSURE LIMITS	
燃油系统压力限制要求满足所有发动机运行条件, 从不小于高于真实燃油蒸气压力 5psia (0.35 巴绝对压力) 到所有条件下的 148 psia (10.2 巴绝对压力) 最大燃油压力 (燃油气/液比 <0.45)。特定的安装限制见安装手册 CFM7B01, A 章, 第 5 节, 图 A2 和 A3。 Fuel system pressure limits required to meet all engine operating conditions extend from a minimum fuel pressure of not less than 5 psia (0.35 bar absolute) above the true fuel vapor pressure to a maximum fuel pressure of 148 psia (10.2 bar absolute) with a fuel vapor/liquid ratio < 0.45 at all conditions. For specific installation limits, see Installation Manual, CFM7B01, Part A, Section 5, Figures A2 and A3.	
最小压力限制为 13psid (90kPa 压差)。冷启动时最大压力限制为 305psid (2102kPa 压差), 受卸压活门限制。见注 12。 The minimum pressure limit is 13 psid (90 kPa differential). The maximum pressure limit during cold starts is, limited by a pressure-relief valve. See NOTE 12.	

注 3/NOTE 3

电气/ELECTRICAL
 转向/Rotation (1)
 与核心机的速比/
 Speed ratio to core (2)
 额定值/Pad Rating (kW)
 剪切力矩(英寸-磅)/
 Shear Torque (in-lb)
 最大悬臂力矩(英寸-磅)/
 Maximum overhung moment (in-lb)
 HYDRAULIC PUMP
 转向/Rotation (1)
 与核心机的速比/
 Speed ratio to core (2)
 额定值/Pad Rating (in-lb)
 剪切力矩(英寸-磅)/
 Shear Torque (in-lb)
 最大悬臂力矩(英寸-磅)/
 Maximum overhung moment (in-lb)

附件驱动规定和滑油压力限制 ACCESSORY DRIVE PROVISIONS FUEL AND OIL PRESSURE LIMITS	
所有型号	
CW 0.565	
135 9,000	
950	
CW 0.256	
1,550 4,400	
166	
(1) CW = 顺时针/CCW = 逆时针, 面向驱动座 CW = CLOCKWISE FACING PAD / CCW = COUNTERCLOCKWISE FACING PAD (2) 100%核心机转速 = 14,460 RPM 100% CORE ENGINE SPEED = 14,460 RPM	

注 4/NOTE 4

发动机额定值是基于下列条件下的校准台架性能（海平面）：
Engine ratings are based on calibrated stand performance (sea level static) under the following conditions:
起飞推力名义上与环境温度（平台额定值）无关，直到以下环境温度：
Takeoff thrust is nominally independent of ambient temperature (flat rated) up to ambient temperature of:
- 标准+15°C (30°C, 86°F)，除 7B22/B1 和 7B24/B1 外所有型号
Std + 15°C (30°C, 86°F) for all models except 7B22/B1 and 7B24/B1
- 标准+21°C (36°C, 96.8°F)，对于 7B22/B1 和 7B22/3B1
Std + 21°C (36°C, 96.8°F) for 7B22/B1 and 7B22/3B1
- 标准+26°C (41°C, 105.8°F)，对于 7B24/B1, 7B24/3B1 和 7B24E/B1
Std + 26°C (41°C, 105.8°F) for 7B24/B1, 7B24/3B1 and 7B24E/B1
- 标准+20°C (35°C, 95°F)，对于 7B26/B2, 7B26/3B2, 7B26/3B2F, 7B26E/B2 and 7B26E/B2F
Std + 20°C (35°C, 95°F) for 7B26/B2, 7B26/3B2, 7B26/3B2F, 7B26E/B2 and 7B26E/B2F
对于所有型号，最大连续名义上与环境温度（平台额定值）无关，直到环境温度为标准+10°C (25°C, 77°F)。
Maximum continuous is nominally independent of ambient temperature (flat rated) up to ambient temperature of Std. + 10°C (25°C, 77°F) for all models.

0 消耗引气和功率提取。
Zero customer bleed and horsepower extraction.

100%进口恢复
100% inlet recovery.

基于产品飞行排气系统。
Based on the production flight exhaust system.

注 5/NOTE 5

低压转子 (N1)
Low pressure rotor (N1)
高压转子 (N2)
High pressure rotor (N2)

最大允许发动机转子转速（所有型号） MAXIMUM PERMISSIBLE ENGINE ROTOR SPEEDS (ALL MODELS)	
RPM	%
5,382	104
15,183	105
100% N1 = 5,175 RPM, 100% N2 = 14,460 RPM	

注 6/NOTE 6

位置/LOCATION

风扇出口/
Fan Discharge

5级高压压气机/
HPC Stage 5 only

压气机出口/
Compressor discharge only

5级HPC和压气机出口组合/
HPC Stage 5 and compressor
discharge combined

最大允许引气（所有型号）* MAXIMUM PERMISSIBLE AIR BLEED EXTRACTION (ALL MODELS)*	
风扇修正转速/ FAN CORRECTED SPEED	流量限制/ FLOW LIMIT
高于最小慢车的所有转速/ All speeds above minimum idle	2%风扇气流/ 2% fan airflow
高于最小慢车的所有转速/ All speeds above minimum idle	10%核心气流 10% core airflow
最小慢车到61%N1K Minimum idle to 61% N1K 61%到82.5% N1K 61% to 82.5% N1K 高于82.5% N1K Above 82.5% N1K	12%核心气流 12% core airflow 从12%到7%核心气流线性变化 Linear variation from 12% to 7% core airflow 7%核心气流 7% core airflow
最小慢车到61%N1K Minimum idle to 61% N1K 61%到82.5% N1K 61% to 82.5% N1K 高于82.5% N1K Above 82.5% N1K	13%核心气流 13% core airflow 从13%到10%核心气流线性变化 Linear variation from 13% to 10% core airflow
高于82.5% N1K Above 82.5% N1K	10%核心气流 10% core airflow

注 7/NOTE 7

经批准的燃油满足国标 GB6537-2006 燃油牌号的要求。
Approved fuel compliance with requirement of GB6537-2006.

其余燃油型号符合 GE 的规范 D50TF2, MIL-T-5624, JP-4 或 JP-5 级, ASTM D 1655, Jet A, A1 和 B 与 GE 的规范一致。主要的燃油是 Jet A, 其他列出的燃油作为备选。当由主要燃油换成备选燃油时, 无需进行燃油控制调整。航空汽油的适用未经授权。添加剂的使用参考特殊运行说明 CFMI-TP.01.14 第 3 节。

Remaining fuel types conforming to GE Specification D50TF2. MIL-T-5624, Grades JP-4 or JP-5, ASTM D 1655, Jet A, A1 and B are consistent with this GE Specification. Primary fuel is Jet A, with other fuels listed being acceptable alternates. No fuel control adjustment is required when changing from primary to alternate fuels. Use of aviation gasoline is not authorized. Consult Specific Operating Instructions, CFMI-TP.01.14, Section 3, for additive usage.

注 8/NOTE 8

关键转动件的寿命限制在 CFM56-7B 发动机进厂修理手册 CFM-TP.SM.10 第 5 章公布。
Life limits established for critical rotating components are published in Chapter 5 of the CFM56-7B Engine Shop Manual, CFM-TP.SM.10.

注 9/NOTE 9

发动机所有运行状况下推力输出的功率设定、功率检查和控制基于相对于风扇转速的 CFM 发动机图表。因此, 风扇转速传感器包含在发动机集成中。

Power setting, power checks and control of engine thrust output in all operations is to be based on CFM engine charts referring to fan speed. Fan speed sensors are included in the engine assembly for this purpose.

注 10/NOTE 10

型号合格证持有人—CFMI, S.A., 是由法国国营发动机生产联合体 (SNECMA) 和通用电气 (GE) 公司共同建立并拥有的公司, 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, GE 和 SNECMA 根据 CFMI S.A. 的协议共同行使。

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.

在美国根据型号合格证 No. E00055EN 生产的发动机, 与在法国按照 TC No. E00056EN 生产的相同命名的发动机完全相同并可互换。同样, 法国生产的模块、组件或零件适用于按本型号合格证生产的发动机, 只要 SNECMA 在 EASA 生产合格证 No. FR.21G.0007 授权下颁发的适航批准挂签 (EASA 表 1—授权放行许可或 JAA 表 1) 附于每个产品上或产品运输的发票上 (参见 14 CFR § 21.502)。

Engines produced in the United States under Type Certificate No. E00055EN are identical to the engines of the same model designation produced in France under Type Certificate No. E00056EN, and fully interchangeable with engines produced under the type certificate. 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).

由 GE 生产的发动机, 通过偶数序列号前缀来识别。参考 CFM56-7B SB72-0747 列出的前缀
These engines, when produced by General Electric, are identified by an even numbered serial number prefix (Reference CFM56-7B Service Bulletin 72-0747 for a list of approved prefixes).

奇数序列号前缀的发动机是由 SNECMA 生产的。参考 CFM56-7B SB72-0747 列出的前缀
All engines identified by an odd numbered prefix () will be produced by SNECMA. (Reference CFM56-7B Service Bulletin 72-0747 for a list of approved prefixes)

注 11/NOTE 11

低于 25°F, 空中最小许用慢车相应于 N2=64.7% (9,350 rpm)。在 25°F (-3.8°C) 和 40°F (4.4°C) 之间, 慢车转速从 64.7% (9,350 rpm) 到 58.8% (8,500 rpm) 变化。高于 40°F (4.4°C), 最小许用慢车转速是 58.8% (8,500 rpm)。其他 EEC 计划表限制, 如最小燃油流量和最小 PS3 (包括 7B27A 和 7B27A/3, 7B27AE 的马赫数偏差) 可能导致空中 N2 转速限制高于以上 N2 限制。所有的限制不可调, 并且预置在 EEC 计划表中。

The minimum permissible idle in flight corresponds to N2=64.7% (9,350 rpm) below 25°F. Between 25°F (-3.8°C) and 40°F (4.4°C), the idle speed varies from 64.7% (9,350 rpm) to 58.8% (8,500 rpm). Above 40°F (4.4°C), the minimum permissible idle speed is 58.8% (8,500 rpm). Other EEC schedule limitations, such as minimum fuel flow and minimum PS3 (including Mach No. bias for 7B27A & 7B27A/3), may result in minimum N2 speed limitations in flight that are higher than the N2 limits listed above. All limits are non-adjustable and are preset into the EEC schedules.

注 12/NOTE 12

仅在负加速度运行情况下，允许低于 13psid 的最低滑油压力运行最多 10 秒钟。参见特殊运行说明 CFMI-TP.01.14 第 6 节。

During negative-g operation only, it is permissible to operate below minimum oil pressure (13psid) for a maximum of 10 seconds. See Specific Operating Instructions, CFMI-TP.01.14, Section 6.

注 13/NOTE 13

发动机意外情况下正常 5 分钟起飞额定值可能延长至 10 分钟。

The normal 5 minute takeoff rating may be extended to 10 minutes for engine out contingency.

注 14(a)/NOTE 14(a)

显示的最大许用起飞排气温度（EGT）为 950°C。这些显示的起飞 EGT 红线是通过 EGT 转换完成的，ECU 软件对 EGT 的调整在以下注明。

The indicated maximum permissible takeoff exhaust gas temperature (EGT) is 950°C. These indicated takeoff EGT redlines are accomplished via an EGT shunt and an EGT trim in the ECU software as noted below.

显示 950°C 起飞 EGT 红线值对每个型号的影响总结如下：

The effect on EGT (units °C) with respect to the indicated takeoff EGT redline value of 950°C for each of the models is summarized below:

型别/Model	实际测量起飞红线值/ Actual Measured Takeoff Redline Value Authorized	显示的起飞EGT水平， 仅30°C转换/ Indicated Takeoff EGT level with 30°C Shunt Only*	最大EGT调整水平/ Maximum EGT Trim Level**	显示的起飞EGT红线/ Indicated Takeoff EGT Redline
7B20, 7B20/3	884	914	36	950
7B22, 7B22/3	886	916	34	950
7B22/3B1	907	937	13	950
7B24, 7B24/3	908	938	12	950
7B24/3B1	920	950	0	950
7B26, 7B26/B2, 7B26/3B1, 7B26/3B2, 7B26/3	920	950	0	950
7B27, 7B27/B3, 7B27/3, 7B27/3B1, 7B27/3B3	920	950	0	950
7B26/3F, 7B26/3B2F, 7B27/3F, 7B27/3B1F	940	950	0	950

型别/Model	实际测量起飞红线值/ Actual Measured Takeoff Redline Value Authorized	显示的起飞EGT水平， 仅30°C转换/ Indicated Takeoff EGT level with 30°C Shunt Only*	最大EGT调整水平/ Maximum EGT Trim Level**	显示的起飞EGT红线/ Indicated Takeoff EGT Redline
7B20E	904	914	36	950
7B22E	906	916	34	950
7B22E/B1	927	937	13	950
7B24E	928	938	12	950
7B24E/B1	940	950	0	950
7B26E/B1, 7B26E/B2, 7B26E	940	950	0	950
7B27E, 7B27E/B1, 7B27E/B3	940	950	0	950
7B26E/F, 7B26E/B2F, 7B27E/F, 7B27E/B1F	960	950	0	950

* CFM56-7B, 7B/3 和 7BE 系列发动机的 EGT 转换是在实际测量的发动机 EGT 上加 30°C，CFM56-7B/3F 和 7BE/F 系列发动机是加 10°C，CFM56-7B/2 系列发动机是加 20°C。所有 CFM56 系列发动机，当核心机转速超过 8,500 RPM 时，这个转换被触发。对于 E 系列发动机，除了当前的+30 °C 或+10 °C (E/F 系列) 转换，还有一个 20 °C 的 EGT 包线转换（发动机温度更低），这个“-20 °C”度的转换在核心机实际转速高于 10400RPM 时激活，地面慢车状态时是-10 °C 度。这个包线转换对所有飞行条件有效。

* EGT shunt adds 30°C to actual measured engine EGT on CFM56-7B, 7B/3 and 7BE series engines, 10°C to actual measured engine EGT on CFM56-7B/3F and -7BE/F series engines, and 20°C to the

actual measured engine EGT on CFM56-7B/2 series engines to provide an indicated EGT level. This EGT shunt is triggered above 8,500 RPM core speed for all CFM56 series engines. For E series only, there is a 20°C profile EGT shunt (cooler) in addition to the present +30°C or +10°C (E/F series) shunt. This profile shunt (-20°C) will be active above 10400 rpm Physical Core speed (N2) and -10°C Shunt at ground idle conditions. This profile shunt will be active for all flight conditions.

** EGT 的调整功能将增加上述数值到 EGT 显示水平值。这个调整只在马赫数从 0 到 0.40, 并且核心机转速大于 11,200 RPM 时被触发。这个功能只适用于所指出的型号。

** The EGT trim function adds the values noted above to the indicated EGT levels. This EGT trim is only triggered at mach numbers from 0 to 0.40 and when the core speed is greater than 11,200 RPM. This function is only applicable for the engine models indicated.

注 14(b)/NOTE 14(b)

发动机显示的最大允许最大连续EGT是925°C, EGT调整功能和转换和关于起飞的注14a相同。
The indicated maximum permissible maximum continuous EGT is 925°C. The same trims and shunts described in Note 14(a) for takeoff EGT are applicable to maximum continuous EGT.

注 14(c)/NOTE 14(c)

所有 CFM56-7B 系列发动机被审定 20 秒 960°C 的显示的最大许用起飞 EGT, 这等于高出 950°C 最大许用显示值 10°C。
All CFM56-7B engines are certified with an indicated maximum permissible takeoff EGT transient allowance of 960°C for 20 seconds. This equates to a 10°C increase above the maximum permissible indicated value of 950°C.

注 15/NOTE 15

CFM56-7B27A, CFM56-7B27A/3和CFM56-7B27AE仅对军用设计, 序列号包括654, 655, 362 或363, 取决于最后组装的地点。FAA审定军用发动机不必按照FAA的规章运行和维护。用于商用的CFM56-7B27A, CFM56-7B27A/3或CFM56-7B27AE发动机, 以及使用过的CFM56-7B27A, CFM56-7B27A/3和CFM56-7B27AE发动机的零件装于其他CFM56-7B发动机, 要得到 FAA的事先批准(发动机审定办公室, ANE-140)
The CFM56-7B27A, CFM56-7B27A/3 and CFM56-7B27AE variants are designed for military application only. The engine serial number of these variants includes 654, 655, 362 or 363 depending on final assembly location. FAA certified engines used in military service are not necessarily operated or maintained in accordance with FAA regulations. Commercial service use of the CFM56-7B27A, CFM56-7B27A/3 or CFM56-7B27AE variants, and the installation of used CFM56-7B27A, CFM56-7B27A/3 and CFM56-7B27AE parts in another CFM56-7B variant, are subject to prior approval of the FAA (Engine Certification Office, ANE-140).

注 16/NOTE 16

删除/Note deleted.

注 17/NOTE 17

发动机控制系统的签派和维护相关标准在 CFM56-7B 发动机车间手册 (CFM-TP.SM.10) 的适航限制部分中规定, 定义了不同的构型和最大运行间隔。
Criteria pertaining to the dispatch and maintenance requirements for the engine control systems are specified in the airworthiness limitation section of the CFM56-7B Engine Shop Manual (CFM-TP.SM.10), which defines the various configurations and maximum operating intervals.

注 18/NOTE 18

启动和慢车的实际最大允许滑油温度, 连续运行时比相应的显示温度高 10°C, 短时运行时高 5°C。
The actual maximum permissible oil temperature for starting and idle conditions is 10°C higher for continuous operation and 5°C higher for transient operation than the corresponding indicated oil temperatures.

连续运行时显示滑油温度 140°C (284°F), 相应的实际滑油温度为 150°C (302°F)。
An indicated oil temperature for continuous operation of 140°C (284°F) corresponds to an actual oil temperature of 150°C (302°F).

短时运行时显示滑油温度 155°C (311°F), 相应的实际滑油温度为 160°C (320°F)。
An indicated oil temperature for transient operation of 155°C (311°F) corresponds to an actual oil temperature of 160°C (320°F).

注 19/NOTE 19

CFM56-7B系列发动机包括: CFM56-7B20, -7B22, -7B24, -7B26, -7B26/B2, -7B27, 和-7B27/B3
CFM56-7B series includes: CFM56-7B20, -7B22, -7B24, -7B26, -7B26/B2, -7B27, and -7B27/B3

CFM56-7B/3系列发动机包括: CFM56-7B20/3, -7B22/3, -7B22/3B1, -7B24/3, -7B24/3B1, -7B26/3, -7B26/3B1, -7B26/3B2, -7B27/3, -7B27/3B1和-7B27/3B3
CFM56-7B/3 series includes: CFM56-7B20/3, -7B22/3, -7B22/3B1, -7B24/3, -7B24/3B1, -7B26/3, -7B26/3B1, -7B26/3B2, -7B27/3, -7B27/3B1, -7B27/3B3, and -7B27A/3

CFM56-7B/3F系列发动机包括: CFM56-7B26/3F, -7B26/3B2F, -7B27/3F和-7B27/3B1F
CFM56-7B/3F series includes: CFM56-7B26/3F, -7B26/3B2F, -7B27/3F, and -7B27/3B1F.

CFM56-7BE 系列发动机包括: CFM56-7B20E, -7B22E, -7B22E/B1, -7B24E, -7B24E/B1, -7B26E, -7B26E/B1, -7B26E/B2, -7B27E, -7B27E/B1, and -7B27E/B3
CFM56-7BE series includes: CFM56-7B20E, -7B22E, -7B22E/B1, -7B24E, -7B24E/B1, -7B26E, -7B26E/B1, -7B26E/B2, -7B27E, -7B27E/B1, and -7B27E/B3

CFM56-7BE/F 系列发动机包括:CFM56-7B26E/F, -7B26E/B2F, -7B27E/F, and -7B27E/B1F.
CFM56-7BE/F series includes: CFM56-7B26E/F, -7B26E/B2F, -7B27E/F, and -7B27E/B1F.

注 20/NOTE 20

The models shown on this VTCDS have the following general characteristics:

MODEL	CHARACTERISTICS
CFM56-7B18	基本型（不再可用） Base model. (No longer available)
CFM56-7B20	除提高推力额定值外，与 CFM56-7B18 相同 Same as CFM56-7B18 except for increased thrust ratings.
CFM56-7B22	除提高推力额定值外，与 CFM56-7B18 相同 Same as CFM56-7B18 except for increased thrust ratings.
CFM56-7B24	除提高推力额定值外，与 CFM56-7B18 相同 Same as CFM56-7B18 except for increased thrust ratings.
CFM56-7B26	除提高推力额定值外，与 CFM56-7B18 相同 Same as CFM56-7B18 except for increased thrust ratings.
CFM56-7B27	除提高推力额定值外，与 CFM56-7B18 相同 Same as CFM56-7B18 except for increased thrust ratings.
CFM56-7B27/B3	除用于公务机外（飞行任务不同），与 CFM56-7B27 相同 Same as CFM56-7B27 except CFM56-7B27/B1 is intended for a business jet application (different mission).
CFM56-7B26/B2	除增加高原高温起飞性能外，与 CFM56-7B26 相同 Same as CFM56-7B26, except CFM56-7B26/B2 has an extended high altitude and temperature rating above corner point takeoff.
CFM56-7B20/3	除低排放，重新设计的压气机和 HPT 转子外，与 CFM56-7B20 相同 Same as CFM56-7B20 except for low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B22/3	除低排放，增加推力，重新设计的压气机和 HPT 转子外，与 CFM56-7B20 相同 Same as CFM56-7B20 except for increased thrust, low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B24/3	除低排放，增加推力，重新设计的压气机和 HPT 转子外，与 CFM56-7B20 相同 Same as CFM56-7B20 except for increased thrust, low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B26/3	除低排放，增加推力，重新设计的压气机和 HPT 转子外，与 CFM56-7B20 相同 Same as CFM56-7B20 except for increased thrust, low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B27/3	除低排放，增加推力，重新设计的压气机和 HPT 转子外，与 CFM56-7B20 相同 Same as CFM56-7B20 except for increased thrust, low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B22/3B1	除低排放，重新设计压气机和 HPT 转子外，与 CFM56-7B22/B1 相同 Same as CFM56-7B22/B1 except for low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B24/3B1	除低排放，重新设计压气机和 HPT 转子外，与 CFM56-7B24/B1 相同 Same as CFM56-7B24/B1 except for low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B26/3B1	除低排放，重新设计压气机和 HPT 转子外，与 CFM56-7B26/B1 相同 Same as CFM56-7B26/B1 except for low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B26/3B2	除低排放，重新设计压气机和 HPT 转子外，与 CFM56-7B26/B2 相同 Same as CFM56-7B26/B2 except for low emissions combustor and redesigned compressor and HPT rotor.
CFM56-7B27/3B1	除低排放，重新设计压气机和 HPT 转子外，与 CFM56-7B27/B1 相同 Same as CFM56-7B27/B1 except for low emissions combustor and redesigned compressor and HPT rotor.

CFM56-7B27/3B3	Same as CFM56-7B27/B1 except for low emissions combustor and redesigned compressor and HPT rotor. 除低排放, 重新设计压气机和 HPT 转子外, 与 CFM56-7B27/B3 相同
CFM56-7B26/3F	Same as CFM56-7B27/B3 except for low emissions combustor and redesigned compressor and HPT rotor. 除增加 EGT 限制值外, 与 CFM56-7B26/3 相同
CFM56-7B26/3B2F	Same as CFM56-7B26/3 except for increased EGT limits. 除增加 EGT 限制值外, 与 CFM56-7B26/3B2 相同
CFM56-7B27/3F	Same as CFM56-7B26/3B2 except for increased EGT limits. 除增加 EGT 限制值外, 与 CFM56-7B27/3 相同
CFM56-7B27/3B1F	Same as CFM56-7B27/3 except for increased EGT limits. 除增加 EGT 限制值外, 与 CFM56-7B27/3B3 相同
CFM56-7BE series	Same as CFM56-7B27/3B3 except for increased EGT limits. E 型号整合了 /3 型号, 改进了 HPC 扩压器, 采用新的 HPT, LPT 和新的排气扩压装置 (波音件)
CFM56-7BE/F series	The E models incorporate, with respect to /3 models, improved HPC diffuser, new HPT, new LPT and new exhaust diffuser (Boeing Part). E/F 型号整合了 /3F 型号, 改进了 HPC 扩压器, 采用新的 HPT, LPT 和新的排气扩压装置 (波音件) The E/F models incorporate, with respect to /3F models, improved HPC diffuser, new HPT, new LPT and new exhaust diffuser (Boeing Part)

注 21/NOTE 21

声明经 EASA 批准, 或按 DOA No. EASA.21J.086 授权, 或在 2003 年 9 月 28 日以前经 DGAC 批准的安装手册、特殊运行说明、服务通告、大修和维护手册、修理手册、供应商手册和设计更改, 被 FAA 所接受, 并认为经过 FAA 的批准。修理数据和相关说明被认为经 FAA 按适用性批准或接受。这些批准仅针对型号设计。

Installation Manuals, Specific Operating Instructions, Service Bulletins, Overhaul and Maintenance Manuals, Repair Manuals, Vendor Manuals, and Design Changes which contain a statement that the document is EASA approved or approved under authority of DOA No. EASA.21J.086 or for approvals made before September 28, 2003 by DGAC are accepted by the FAA and considered FAA approved. Repair data and related instructions are considered FAA approved or accepted as applicable. These approvals pertain to the type design only.

注 22/NOTE 22

所有发动机型号均符合 1990 年 9 月 10 日生效的由 34-1 到 34-4 修正案的 14 CFR 34 部的排放要求, 以下除外:

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 34-4, except as follows:

以下型号已满足 2012 年 12 月 31 日生效的 14 CFR 34 部第 5 修正案, 以及 2012 年 7 月 18 日生效的 40 CFR 87 部中颁布的标准:

The following emissions standards promulgated in 14 CFR Part 34, Amendment 5, effective December 31, 2012, and 40 CFR Part 87, effective July 18, 2012, have been complied with for:

CFM56-7B20/3 CFM56-7B22/3 CFM56-7B24/3 CFM56-7B24/3B1
CFM56-7B26/3 CFM56-7B26/3B1 CFM56-7B26/3B2 CFM56-7B26/3F
CFM56-7B26/3B2F CFM56-7B27/3 CFM56-7B27/3B1 CFM56-7B27/3B3
CFM56-7B27/3F CFM56-7B27/3B1F

燃油排泄排放标准: 14 CFR 第 34.11 条款, 以及 40 CFR 第 87.11 条款。

Fuel Venting Emission Standards: 14 CFR § 34.11; in addition, 40 CFR § 87.11.

发烟指数 (SN) 排放标准: 14 CFR 第 34.21 (e) (2) 条款, 以及 40 CFR 第 87.23 (c) (1) 条款。

Smoke Number (SN) Emission Standards: 14 CFR § 34.21(e)(2); in addition, 40 CFR § 87.23(c)(1).

一氧化碳 (CO) 排放标准: 14 CFR 第 34.21 (d) (1) (ii) 条款, 以及 40 CFR 第 87.23 (c) (1) 条款。

Carbon Monoxide (CO) Emission Standards: 14 CFR § 34.21(d)(1)(ii); in addition, 40 CFR § 87.23(c)(1).

碳氢化合物 (HC) 排放标准: 14 CFR 第 34.21 (d) (1) (i) 条款, 以及 40 CFR 第 87.23 (c) (1) 条款。

Hydrocarbons (HC) Emission Standards: 14 CFR § 34.21(d)(1)(i); in addition, 40 CFR § 87.23(c)(1).

氮氧化合物 (NO_x) 排放标准: 14 CFR 第 34.23 (a) (2) 和 34.23 (b) (1) 条款, 以及 40 CFR 第 87.23 (c) (2) 和 87.23 (c) (3) 条款。

Oxides of Nitrogen (NO_x) Emission Standards: 14 CFR §§ 34.23(a)(2) and 34.23(b)(1); in addition, 40 CFR §§ 87.23(c)(2) and 87.23(c)(3).

除了型号合格证数据单No. E00055EN和E00056EN确定的审定要求的符合性之外, 发动机制造商声明已证明符合国际民航组织附件16第二卷第三版第三部分第二章, 2.2.2节发烟指数、2.3.2节一氧化碳和碳氢化合物、2.3.2.d.3和2.3.2.e.3 氮氧化物(也称为CAEP/6和CAEP/8)的排放标准, 并且符合第二部分第二章燃油排泄要求。

In addition to the finding of compliance based on the certification requirements defined in TCDS No. E00055EN and E00056EN, the engine manufacturer has declared that the ICAO emissions standards identified in Annex 16, Volume II, Third Edition, Part III, Chapter 2, Section 2.2.2 for SN, Section 2.3.2 for CO and HC, Sections 2.3.2.d.3 and 2.3.2.e.3 for NO_x (also known as CAEP/6 and CAEP/8, respectively), and Part II Chapter 2 for fuel venting have also been demonstrated.

以下型别已满足2024年5月24日生效的14 CFR第34部,第7A修正案, 以及2022年12月23日生效的40 CFR 1031部中颁布的标准:

The following emissions standards promulgated in 14 CFR part 34, amendment 7A, effective May 24, 2024, and 40 CFR part 1031, effective December 23, 2022, have been complied with for:

CFM56-7B20E CFM56-7B22E CFM56-7B22E/B1 CFM56-7B24E
CFM56-7B24E/B1 CFM56-7B26E CFM56-7B26E/B1 CFM56-7B26E/B2
CFM56-7B26E/F CFM56-7B26E/B2F CFM56-7B27E CFM56-7B27E/B1
CFM56-7B27E/B3 CFM56-7B27E/F CFM56-7B27E/B1F

燃油排泄排放标准: 14CFR 34.11; 40 CFR 1031.30(b)。

Fuel Venting Emission Standards: 14 CFR 34.11; in addition, 40 CFR 1031.30(b).

烟度(SN)排放标准: 14 CFR 34.21(e); 40 CFR 1031.60(a)(5)。

Smoke Number (SN) Emission Standards: 14 CFR 34.21(e); in addition, 40 CFR 1031.60(a)(5).

一氧化碳排放标准: 14 CFR 34.21(d)(1)(ii); 40 CFR 1031.60(d)。

Carbon Monoxide (CO) Emission Standards: 14 CFR 34.21(d)(1)(ii); in addition, 40 CFR 1031.60(d).

碳氢化合物排放标准: 14 CFR 34.21(d)(1)(i); 40 CFR 1031.60(c)。

Hydrocarbons (HC) Emission Standards: 14 CFR 34.21(d)(1)(i); in addition, 40 CFR § 1031.60(c).

氮氧化物排放标准: 14 CFR 34.23(b)(1); 40 CFR 1031.60(e)(5) (等同于新的发动机满足Tier8的排放标准)。

Oxides of Nitrogen (NO_x) Emission Standards: 14 CFR 34.23(b)(1); in addition, 40 CFR 1031.60(e)(5) (also know as Tier 8 new type).

非挥发性颗粒物质量浓度排放标准: 14 CFR 34.25(a)(1); 此外, 40 CFR 1031.60(a)(6) (等同于发动机满足Tier10的排放标准)。

non-volatile Particulate Matter (nvPM) Mass Concentration Emission Standards: 14 CFR 34.25(a)(1); in addition, 40 CFR 1031.60(a)(6) (also known as Tier 10)

非挥发性颗粒物质量与数量排放标准: 14 CFR 34.25(a)(2); 40 CFR 1031.60(b)(2) (等同于生产中的发动机满足Tier11的排放标准)

nvPM Mass and Number Emission Standards: 14 CFR 34.25(a)(2); in addition, 40 CFR 1031.60(b)(2) (also known as Tier 11 in-production)

除了型号合格证数据单No. E00055EN和E00056EN确定的审定要求的符合性之外, 发动机制造商公开宣布符合以下于2020年7月20日生效的ICAO排放标准附件16, 第II册, 第4版中, 第10修正案中规定的排放标准:

In addition to the finding of compliance based on the certification requirements defined in TCDS No. E00055EN and E00056EN, the engine manufacturer has declared that the ICAO emissions standards identified in Annex 16, Volume II, Fourth Edition, Amendment 10, effective July 20, 2020, have also been demonstrated for the following:

- 第2部, 第2章, 燃油排放,
- 第2部, 第2章, 2.2.2节, 烟度,
- 第3部, 第2章, 2.3.2节, 一氧化碳和碳氢化合物,
- 第3部, 第2章, 2.3.2.e节, 氮氧化物(CAEP/8),
- 第3部, 第4章, 4.2.2.1节, 非挥发性颗粒物质量浓度(CAEP/10), 和
- 第3部, 第4章, 4.2.2.2节, 非挥发性颗粒物质量和数量(CAEP/11)

注 22a/NOTE 22a

以下发动机型别 (CFM56-7B20, CFM56-7B22, CFM56-7B24, CFM56-7B26, CFM56-7B27, CFM56-7B26/B2, CFM56-7B20/3, CFM56-7B22/3, CFM56-7B22/3B1, CFM56-7B24/3, CFM56-7B24/3B1, CFM56-7B26/3, CFM56-7B26/3F, CFM56-7B26/3B1, CFM56-7B26/3B2, CFM56-7B26/3B2F, CFM56-7B27/3, CFM56-7B27/3B1, CFM56-7B27/3 B1F, CFM56-7B27/3B3, CFM56-7B27/3F, CFM56-7B20E, CFM56-7B22E, CFM56-7B22E/B1, CFM56-7B24E, CFM56-7B24E/B1, CFM56-7B26E, CFM56-7B26E/ F, CFM56-7B26E/ B1, CFM56-7B26E/B2, CFM56-7B26E/ B2F, CFM56-7B27E, CFM56-7B27E/B1, CFM56-7B27E/B1F, CFM56-7B27E/B3, CFM56-7B27E/F, CFM56-7B27/B3) 满足中国民航规章《涡轮发动机飞机燃油排泄和排气排出物规定》(CCAR-34R1) (2023年1月1日生效) 的下列标准:

- 非挥发性颗粒物排放标准: CCAR 34.21(e)款 (CAEP/10与CAEP/11)

The following emissions standards promulgated in CAAC regulation CCAR-34R1, effective January 1st, 2023, have been complied with for CFM56-7B20, CFM56-7B22, CFM56-7B24, CFM56-7B26, CFM56-7B27, CFM56-7B26/B2, CFM56-7B20/3, CFM56-7B22/3, CFM56-7B22/3B1, CFM56-7B24/3, CFM56-7B24/3B1, CFM56-7B26/3, CFM56-7B26/3F, CFM56-7B26/3B1, CFM56-7B26/3B2, CFM56-7B26/3B2F, CFM56-7B27/3, CFM56-7B27/3B1, CFM56-7B27/3 B1F, CFM56-7B27/3B3, CFM56-7B27/3F, CFM56-7B20E, CFM56-7B22E, CFM56-7B22E/B1, CFM56-7B24E, CFM56-7B24E/B1, CFM56-7B26E, CFM56-7B26E/ F, CFM56-7B26E/ B1, CFM56-7B26E/B2, CFM56-7B26E/ B2F, CFM56-7B27E, CFM56-7B27E/B1, CFM56-7B27E/B1F, CFM56-7B27E/B3, CFM56-7B27E/F, CFM56-7B27/B3:

- Non-volatile Particulate Matter emission standards: CCAR 34.21(e) (CAEP/10 and CAEP/11)

注 23/NOTE 23

删除。

DELETED.

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---END---