



TYPE-CERTIFICATE DATA SHEET

NO. EASA.A.554

for
SIAT 223

Type Certificate Holder
Airbus Defence and Space GmbH

Willy-Messerschmitt-Straße 1
82024 Taufkirchen
Germany

For models: SIAT 223 V
 SIAT 223 A1
 SIAT 223 K1



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SECTION A: SIAT 223 V

A.I. General

1. Type/ Model/ Variant	
1.1 Type	SIAT 223
1.2 Model	SIAT 223 V
1.3 Variant	N/A
2. Airworthiness Category	Normal Utility
3. Manufacturer	Waggon- und Maschinenbau AG Siebelwerke ATG GmbH Donauwörth, Germany
4. EASA Type Certification Application Date	15 October 2014 (see note 2)
5. State of Design Authority	Germany (see note 2)
6. State of Design Authority Type Certificate Date	03 April 1968 (see note 2)
7. EASA Type Certification Date	02 February 2015 (see note 2)

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	N/A
2. Airworthiness Requirements	FAR 23 incl. Amendment 23.1 and 23.2
3. Special Conditions	N/A
4. Exemptions	N/A
5. (Reserved) Deviations	N/A
6. Equivalent Safety Findings	N/A
7. Environmental Protection	ICAO Annex 16, Vol. I; for details see TCDSN.A.554

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Set of drawings, specifications and reports
2. Description	Single engine, cantilever low-wing aircraft, all metal construction, non-retractable landing gear in nose wheel configuration
3. Equipment	Minimum equipment pursuant to airworthiness requirements



Details concerning minimum equipment as well as possible additional equipment can be found in the equipment list in the maintenance manual

4. Dimensions	Wing Span:	8,28m		
	Length:	7,43m		
	Height:	2,70m		
5. Engine				
5.1. Model	Lycoming IO-360-C1B			
5.2 Type Certificate	EASA.IM.E.032			
5.3 Limitations	Maximum speed 2700rpm			
6. Load factors	Normal:	n = -1,52 to +3,8		
	Utility:	n = -1,76 to +4,4		
7. Propeller				
7.1 Model	Hartzell HC-C2YK-1B/7660 A-2			
7.2 Type Certificate	EASA.IM.P.130			
7.3 Number of blades	2			
7.4 Diameter	188cm (74inch)			
7.5 Sense of Rotation	Clockwise			
8. Fluids				
8.1 Fuel	Aviation fuel 100/130 octane			
8.2 Oil		unalloyed	alloyed	
	above +16°C	SAE 50	SAE 40 or 50	
	from -1°C to +32°C	SAE 40	SAE 40	
	from -18°C to +21°C	SAE 30	SAE 40 or 20W-30	
	below -12°C	SAE 20	20W-30	
8.3 Coolant	N/A			
9. Fluid capacities				
9.1 Fuel	Max fuel quantity:	220l		
	Usable fuel quantity:	216l		
9.2 Oil	7,6l			
9.3 Coolant system capacity	N/A			
10. Air Speeds		Normal	Utility	
	Never Exceed Speed V_{NE}	165kts	177kts	
	Manoeuvring Speed V_A	122kts	126kts	
	Normal Operating Speed V_{NO}	131kts		
	Maximum Flap Extended Speed V_{FE}	100kts		
11. Flight Envelope	Not specified			
12. Approved Operations Capability	VFR Day, no icing			
13. Maximum Masses	Maximum Take-off mass			
	Normal:	1050kg		
	Utility:	980kg		
14. Centre of Gravity Range	Normal:	Max. FWD:	2352mm @ 1050kg linear to	



			2262mm @ 1000kg linear to 2224mm @ 821kg or less
	Max. AFT:		2392mm
Utility:	Max. FWD:		2258mm @ 980kg linear to 2224mm @ 821kg or less
	Max. AFT:		2322mm
15. Datum	Reference plane is 2000mm FWD of leading edge of wing		
16. Control surface deflections	Aileron	Up	22° (+/-1°)
		Down	22° (+/-1°)
	Rudder		25° (+/-1°)
	Elevator	Up	25° (+/-1°)
		Down	30° (+/-1°)
	Flaps	Up	0°
		Down	40° (+/-1°)
	Aileron Trim Tabs		+/-18° (+/-1°)
	Elevator Trim Tabs		+/-17° (+/-1°)
	Vertical Trim Tab		+/-17° (+/-1°)
17. Levelling Means	top stringer of cockpit dome horizontal		
18. Minimum Flight Crew	1		
19. Maximum Passenger Seating Capacity	Normal:	2	
	Utility:	1	
20. Baggage/ Cargo Compartments	Normal: max. load 77kg on rear seat row		
21. Wheels and Tyres	6.00 – 6		
22. (Reserved)			

A.IV. Operating and Service Instructions

1. Flight Manual	Flug-Handbuch SIAT-223-FLAMINGO Baureihe: V, LBA-approved 15 March 1968 (TF-1D1) incl. revisions
2. Maintenance Manual	Betriebshandbuch SIAT 223 FLAMINGO (V1-V4) date of issue 15 June 1967 (TF-3D1) incl. revisions Wartungshandbuch SIAT 223 FLAMINGO (V1-V4) date of issue 01 July 1967 (TF-4D1) incl. revisions
3. Structural Repair Manual	Not specified
4. Weight and Balance Manual	Covered in Flight Manual, Operations Manual and Maintenance Manual



5. Illustrated Parts Catalogue

Ersatzteilkatalog SIAT 223, date of issue 15 August 1972 incl. revisions

A.V. Notes

1. Serial Numbers 001 to 004
2. The EASA TCDS is based on the LBA TCDS No. 679/SA for SIAT 223 V at Issue 9, dated 12 April 2005



SECTION B: SIAT 223 A1

B.I. General

1. Type/ Model/ Variant	
1.1 Type	SIAT 223
1.2 Model	SIAT 223 A1
1.3 Variant	N/A
2. Airworthiness Category	Normal Utility
3. Manufacturer	Waggon- und Maschinenbau AG Siebelwerke ATG GmbH Donauwörth, Germany La Hispano Aviacion S.A. Sevilla, Spain
4. EASA Type Certification Application Date	15 October 2014 (see note 2)
5. State of Design Authority	Germany (see note 2)
6. State of Design Authority Type Certificate Date	12 April 1968 (see note 2)
7. EASA Type Certification Date	02 February 2015 (see note 2)

B.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	N/A
2. Airworthiness Requirements	FAR 23 incl. Amendment 23.1 and 23.2
3. Special Conditions	N/A
4. Exemptions	N/A
5. (Reserved) Deviations	N/A
6. Equivalent Safety Findings	N/A
7. Environmental Protection	ICAO Annex 16, Vol. I; for details see TCDSN.A.554

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Set of drawings, specifications and reports
2. Description	Single engine, cantilever low-wing aircraft, all metal construction, non-retractable landing gear in nose wheel configuration



3. Equipment	Minimum equipment pursuant to airworthiness requirements Details concerning minimum equipment as well as possible additional equipment can be found in the equipment list in the flight manual		
4. Dimensions	Wing Span:	8,28m	
	Length:	7,43m	
	Height:	2,70m	
5. Engine			
5.1. Model	Engine 1:	Lycoming IO-360-C1B	
	Engine 2:	Lycoming IO-360-C1D6	
5.2 Type Certificate	Engine 1 & 2:	EASA.IM.E.032	
5.3 Limitations	Maximum speed 2700rpm		
6. Load factors	Normal:	n = -1,52 to +3,8	
	Utility:	n = -1,76 to +4,4	
7. Propeller			
7.1 Model	Hartzell HC-C2YK-1B/7660 A-2		
7.2 Type Certificate	EASA.IM.P.130		
7.3 Number of blades	2		
7.4 Diameter	188cm (74inch)		
7.5 Sense of Rotation	Clockwise		
8. Fluids			
8.1 Fuel	Aviation fuel 100/130 octane		
8.2 Oil		unalloyed	alloyed
	above +16°C	SAE 50	SAE 40 or 50
	from -1°C to +32°C	SAE 40	SAE 40
	from -18°C to +21°C	SAE 30	SAE 40 or 20W-30
	below -12°C	SAE 20	20W-30
8.3 Coolant	N/A		
9. Fluid capacities			
9.1 Fuel	Max fuel quantity:	170l	
	Usable fuel quantity:		
	Normal :	170l	
	Utility :	50l + 50l = 100l	
9.2 Oil	7,6l		
9.3 Coolant system capacity	N/A		
10. Air Speeds		Normal	Utility
	Never Exceed Speed V_{NE}	165kts	177kts
	Manoeuvring Speed V_A	122kts	126kts
	Normal Operating Speed V_{NO}	131kts	
	Maximum Flap Extended Speed V_{FE}	100kts	
11. Flight Envelope	Not specified		
12. Approved Operations Capability	VFR, no icing		



13. Maximum Masses	Maximum Take-off mass		
	Normal:	1050kg	
	Utility:	980kg	
14. Centre of Gravity Range	Normal:	Max. FWD:	2352mm @ 1050kg linear to 2262mm @ 1000kg linear to 2224mm @ 821kg or less
		Max. AFT:	2392mm
	Utility:	Max. FWD:	2258mm @ 980kg linear to 2224mm @ 821kg or less
		Max. AFT:	2322mm
15. Datum	Reference plane is 2000mm FWD of leading edge of wing		
16. Control surface deflections	Aileron	Up	22° (+/-1°)
		Down	22° (+/-1°)
	Rudder		25° (+/-1°)
	Elevator	Up	25° (+/-1°)
		Down	30° (+/-1°)
	Flaps	Up	0°
		Down	40° (+/-1°)
	Aileron Trim Tabs		+/-18° (+/-1°)
	Elevator Trim Tabs		+/-20° (+/-1°)
	Vertical Trim Tab		+/-17° (+/-1°)
17. Levelling Means	top stringer of cockpit dome horizontal		
18. Minimum Flight Crew	1		
19. Maximum Passenger	Normal:	2	
Seating Capacity	Utility:	1	
20. Baggage/ Cargo Compartments	Normal: max. load 77kg on rear seat row or cabin floor		
21. Wheels and Tyres	6.00 - 6		
22. (Reserved)			

B.IV. Operating and Service Instructions

- | | |
|------------------|--|
| 1. Flight Manual | Flight Manual SIAT 223 FLAMINGO Production Series: A1,
LBA-approved 15 March 1968 (TF-1D1 or TF-1E1) incl.
revisions
Checklist SIAT 223 A1/K1 I and II (TF-2D1 or TF-2E1) |
|------------------|--|



2. Maintenance Manual	Operator's Handbook SIAT 223 FLAMINGO (A1/K1) date of issue 30 January 1970 (TF-3D1 or TF-3E2) incl. revisions Maintenance Manual SIAT 223 FLAMINGO (A1/K1) date of issue 30 January 1970 (TF-4D1 or TF-4E2) incl. revisions
3. Structural Repair Manual	Not specified
4. Weight and Balance Manual	Covered in Flight Manual, Operations Manual and Maintenance Manual
5. Illustrated Parts Catalogue	Ersatzteilkatalog SIAT 223, date of issue 15 August 1972 incl. revisions

B.V. Notes

1. Serial Numbers

Siebelwerke ATG GmbH, Donauwörth, Germany:	011 to 050
La Hispano Aviacion S.A., Sevilla, Spain:	051 and higher

2. The EASA TCDS is based on the LBA TCDS No. 679/SA for SIAT 223 A1 at Issue 9, dated 12 April 2005



SECTION C: SIAT 223 K1

C.I. General

1. Type/ Model/ Variant	
1.1 Type	SIAT 223
1.2 Model	SIAT 223 K1
1.3 Variant	N/A
2. Airworthiness Category	Normal Utility Aerobatic
3. Manufacturer	Waggon- und Maschinenbau AG Siebelwerke ATG GmbH Donauwörth, Germany La Hispano Aviacion S.A. Sevilla, Spain
4. EASA Type Certification Application Date	15 October 2014 (see note 3)
5. State of Design Authority	Germany (see note 3)
6. State of Design Authority Type Certificate Date	28 August 1968 (see note 3)
7. EASA Type Certification Date	02 February 2015 (see note 3)

C.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	N/A
2. Airworthiness Requirements	FAR 23 incl. Amendment 23.1 and 23.2
3. Special Conditions	N/A
4. Exemptions	N/A
5. (Reserved) Deviations	N/A
6. Equivalent Safety Findings	N/A
7. Environmental Protection	ICAO Annex 16, Vol. I; for details see TCDSN.A.554

C.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Set of drawings, specifications and reports
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2. Description	Single engine, cantilever low-wing aircraft, all metal construction, non-retractable landing gear in nose wheel configuration		
3. Equipment	Minimum equipment pursuant to airworthiness requirements Details concerning minimum equipment as well as possible additional equipment can be found in the equipment list in the flight manual		
4. Dimensions	Wing Span:	8,28m	
	Length:	7,43m	
	Height:	2,70m	
5. Engine			
5.1. Model	Engine 1:	Lycoming AIO-360-A1A	
	Engine 2:	Lycoming AIO-360-A1B	
5.2 Type Certificate	Engine 1 & 2:	EASA.IM.E.032	
5.3 Limitations	Maximum speed	2700rpm	
6. Load factors	Normal:	n = -1,52 to +3,8	
	Utility:	n = -1,76 to +4,4	
	Aerobatic:	n = -4,0 to +6,0	
7. Propeller			
7.1 Model	Hartzell HC-C2YK-1B/7660 A-2		
7.2 Type Certificate	EASA.IM.P.130		
7.3 Number of blades	2		
7.4 Diameter	188cm (74inch)		
7.5 Sense of Rotation	Clockwise		
8. Fluids			
8.1 Fuel	Aviation fuel 100/130 octane		
8.2 Oil		unalloyed	alloyed
	above +16°C	SAE 50	SAE 40 or 50
	from -1°C to +32°C	SAE 40	SAE 40
	from -18°C to +21°C	SAE 30	SAE 40 or 20W-30
	below -12°C	SAE 20	20W-30
8.3 Coolant	N/A		
9. Fluid capacities			
9.1 Fuel	Max fuel quantity:	170l	
	Usable fuel quantity:		
	Normal :	170l	
	Utility :	50l + 50l = 100l	
	Aerobatic:	30l + 30l = 60l	
9.2 Oil		7,6l	
9.3 Coolant system capacity		N/A	



		Normal Utility	Aerobatic
10. Air Speeds	Never Exceed Speed V_{NE}	165kts	177kts 183kts
	Manoeuvring Speed V_A	122kts	126kts 135kts
	Normal Operating Speed V_{NO}		131kts
	Maximum Flap Extended Speed V_{FE}		100kts
11. Flight Envelope	Not specified		
12. Approved Operations Capability	VFR, no icing		
13. Maximum Masses	Maximum Take-off mass		
	Normal:	1050kg	
	Utility:	980kg	
	Aerobatic:	821kg	
14. Centre of Gravity Range	Normal:	Max. FWD: 2352mm @ 1050kg linear to 2262mm @ 1000kg linear to 2224mm @ 821kg or less	
		Max. AFT: 2392mm	
	Utility:	Max. FWD: 2258mm @ 980kg linear to 2224mm @ 821kg or less	
		Max. AFT: 2322mm	
	Aerobatic:	Max. FWD: 2224mm	
		Max. AFT: 2266mm	
15. Datum	Reference plane is 2000mm FWD of leading edge of wing		
16. Control surface deflections	Aileron	Up	22° (+/-1°)
		Down	22° (+/-1°)
	Rudder		25° (+/-1°)
	Elevator	Up	25° (+/-1°)
		Down	30° (+/-1°)
	Flaps	Up	0°
		Down	40° (+/-1°)
	Aileron Trim Tabs		+/-18° (+/-1°)
	Elevator Trim Tabs		+/-20° (+/-1°)
	Vertical Trim Tab		+/-17° (+/-1°)
17. Levelling Means	top stringer of cockpit dome horizontal		
18. Minimum Flight Crew	1		
19. Maximum Passenger Seating Capacity	Normal:	2	
	Utility:	1	
	Aerobatic:	0	
20. Baggage/ Cargo Compartments	Normal: max. load 77kg on rear seat row		



21. Wheels and Tyres 6.00 - 6
22. (Reserved)

C.IV. Operating and Service Instructions

- | | |
|--------------------------------|---|
| 1. Flight Manual | Flight Manual SIAT 223 FLAMINGO Production Series: K1, LBA-approved 15 August 1968 (TF-1D1/K or TF-1E2/K) incl. revisions
Checklist SIAT 223 A1/K1 I and II (TF-2D1 or TF-2E1) |
| 2. Maintenance Manual | Operator's Handbook SIAT 223 FLAMINGO (A1/K1) date of issue 30 January 1970 (TF-3D1 or TF-3E2) incl. revisions
Maintenance Manual SIAT 223 FLAMINGO (A1/K1) date of issue 30 January 1970 (TF-4D1 or TF-4E2) incl. revisions |
| 3. Structural Repair Manual | Not specified |
| 4. Weight and Balance Manual | Covered in Flight Manual, Operations Manual and Maintenance Manual |
| 5. Illustrated Parts Catalogue | Ersatzteilkatalog SIAT 223, date of issue 15 August 1972 incl. revisions |

C.V. Notes

1. Serial Numbers

Siebelwerke ATG GmbH, Donauwörth, Germany:	011 to 050
La Hispano Aviacion S.A., Sevilla, Spain:	051 and higher

2. Type certificate was issued on 28 August 1968 on application of Siebelwerke ATG GmbH, Donauwörth, Germany and expanded to include Spanish production on 12 April 1972

3. The EASA TCDS is based on the LBA TCDS No. 679/SA for SIAT 223 K1 at Issue 9, dated 12 April 2005



SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

FAR	Federal Aviation Regulations
FWD	Forward
ICAO	International Civil Aviation Organization
LBA	Luftfahrt Bundesamt
N/A	Not applicable
SAE	Society of Automotive Engineers
TCDS	Type Certificate Data Sheet
VFR	Visual Flight Rules

II. Type Certificate Holder Record

Day of Entry	Company Name (Legal Entity)
18.11.1952	Siebelwerke ATG GmbH
(09.12.1964	Taken over by Bölkow Entwicklungen KG)
(01.01.1966	Contract with SIAT – WMD)
29.06.1972	Messerschmitt-Bölkow-Blohm GmbH*
01.04.1992	Messerschmitt-Bölkow-Blohm AG
30.09.1992	Deutsche Aerospace AG
02.01.1995	Daimler-Benz Aerospace AG
17.11.1998	Daimler Chrysler Aerospace AG
10.07.2000	EADS Deutschland GmbH
01.07.2014	Airbus Defence and Space GmbH

* Siebelwerke ATG GmbH ceased to exist as a legal entity by amalgamation into Messerschmitt-Bölkow-Blohm GmbH on 29 June 1972

III. Change Record

Issue	Date	Changes	TC Issue No. & Date
01	02 February 2015	Initial Issue after TC transfer	01, 02 February 2015
02	22 June 2015	Type Certificate Holder Record revised	01, 02 February 2015
03	13 November 2018	Change of TC holder address	02, 13 November 2018
04	15 October 2020	Minor updates to wording and content	02, 13 November 2018

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