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# TYPE-CERTIFICATE DATA SHEET

No. EASA.A.642

**for**  
Bristell B23

**Type Certificate Holder**  
BRM Aero s.r.o.

Letecká 255  
686 04 Kunovice  
Czech Republic

For models:   Bristell B23  
                  Bristell B23-915  
                  Bristell B23-915 IFR  
                  Bristell B23-912iS



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## **SECTION A: BRISTELL B23**

### **A.I. General**

1. Type/ Model	
1.1 Type	Bristell B23
1.2 Model	Bristell B23
2. Airworthiness Category	CS-23, Normal category
3. Manufacturer	BRM Aero s.r.o. Letecká 255 686 04 Kunovice Czech Republic
4. EASA Type Certification Application Date	30 May 2017
5. State of Design Authority	N/A
6. State of Design Authority Type Certificate Date	N/A
7. EASA Type Certification Date	07 October 2020

### **A.II. EASA Certification Basis**

1. Reference Date for determining the applicable requirements	30 May 2017
2. Airworthiness Requirements	CS-23 [Certification Specifications for Normal-Category Aeroplanes] Amdt. 5, dated 29 March 2017 CS-ACNS, Issue 2, dated 26 April 2019
3. Special Conditions	None
4. Exemptions	None
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	None
7. Environmental Protection	see TCDSN EASA.A.642



### A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition                      Bristell B23 Master Document List ADxC-73-001-MDL, issue A or later approved revision

2. Description

The airplane is a side-by-side single engine two-seater. It has a tapered cantilever low wing configuration with flaps and ailerons. The empennage is conventional. The tricycle landing gear is fixed. The airframe is a lightweight structure comprising aluminium sheets riveted with blind rivets. Airplane is equipped by lithium battery installations. The optional Aircraft Emergency Parachute System (AEPS) is integral part of aircraft design (see A.V.1.).

3. Equipment:                                      The aeroplane is equipped with an optional airframe installed AEPS.

4. Dimensions:                                      Wingspan (incl. wing tip lights):                      9.27 m  
Height    2.36 m  
Length    6.58 m  
Wing area    11.75 m<sup>2</sup>

5. Engine

5.1. Model    ROTAX 912 S3  
5.2 Type Certificate                                      EASA.E.121  
5.3 Limitations    Refer to TCDS: EASA.E.121

6. Load factors

Flaps up    n=+4  
Flaps up    n=-2  
Flaps down    n=+2  
Flaps down    n=+0

7. Propeller

7.1 Model    MTV-34-1-A/175-200  
7.2 Type Certificate    EASA.P.049  
7.3 Number of blades    three  
7.4 Diameter    175 cm  
7.5 Sense of Rotation    clockwise, seen from pilot's point of view

8. Fluids

8.1 Fuel    See AFM section 2.13  
    See Rotax Service Instruction SI-912-016  
8.2 Oil    See Rotax Operators Manual OM-912 Series  
    See Rotax Service Instruction SI-912-016  
8.3 Coolant    See Rotax Operators Manual OM-912 Series  
    See Rotax Service Instruction SI-912-016



## 9. Fluid capacities

9.1 Fuel	Total capacity: 2x60L Usable capacity: 2x59L
9.2 Oil	Max. approx. capacity: 3.6 L
9.3 Coolant system capacity	Capacity: 2.5 L

## 10. Air Speeds: EAS≈CAS (IAS)

VS0: 43 kts (44 kts)  
VS: 50 kts (51 kts)  
VFE: 81 kts (82 kts)  
VA: 98 kts (99 kts)  
VC: 135 kts (136 kts)  
VNE: 156 kts (157 kts)

## 11. Flight Envelope

Max. operating altitude above MSL: 14.000 ft

## 12. Approved Operations Capability

VFR Day / VFR Night (see A.V.1)

## 13. Maximum Masses

Max. Takeoff mass is 750 kg

## 14. Centre of Gravity Range

from 25 %MAC to 34.5 %MAC, from 1.717 m to 1.846 m referring to datum

## 15. Datum

forward plane of the engine flange to the propeller

## 16. Control surface deflections

-Elevator 19° up, 15° down  
-Aileron 24° up, 16° down  
-Rudder 30° left and right  
-Flap, discrete 0°/10°/25° down

## 17. Levelling Means

see AFM Section 6.2 Definitions

## 18. Minimum Flight Crew

1 pilot

## 19. Maximum Passenger Seating Capacity

1 passenger

## 20. Baggage/ Cargo Compartments

1 compartment in each wing,  
1 compartment behind the occupants

## 21. Wheels and Tyres

Type and dimension of the main wheels:

- wheel rim - BERINGER - 5.00-5"
- tubeless tyre - MICHELIN AVIATOR - 5,00-5"

Type and dimension of the nose wheel:

- wheel rim - BERINGER - 5.00-5"
- tubeless tyre - MICHELIN AVIATOR - 5,00-5"

## 22. (Reserved)



#### **A.IV. Operating and Service Instructions**

- |                                |  |
|--------------------------------|--|
| 1. Flight Manual               | ADxC-73-001-AFM; issue A; dated 27 August 2020<br>or later approved issue [Basic aircraft G3x avionics]<br>ADxC-73-070-AFM issue A; dated 22 December 2022 or later<br>approved issue [G500 Avionic package] |
| 2. Maintenance Manual          | ADxC-73-001-AMM; edition 1.0; dated 18 September 2020<br>or later approved issue   |
| 3. Structural Repair Manual    | not available  |
| 4. Weight and Balance Manual   | ADxC-73-001-AFM; issue A; dated 27 August 2020<br>or later approved issue<br>ADxC-73-070-AFM issue A; dated 22 December 2022 or later<br>approved issue [G500 Avionic package]                               |
| 5. Illustrated Parts Catalogue | not issued   |

#### **A.V. Notes**

1. In order to show the compliance with the CS-23, Amdt. 5, certification basis, the AMC to CS-23 was used by the TC holder complemented by following Means of Compliance for specific design features:
  - a) SC-ELA.2015-01 [Lithium battery installations] Issue 1
  - b) SC-OVLA.div-03 [Night VFR operation with VLA] Issue 2
  - c) ASTM F2316-12 [Aircraft Emergency Parachute System]



**SECTION B: BRISTELL B23-915**

**B.I. General**

1. Type/ Model	
1.1 Type	Bristell B23
1.2 Model	Bristell B23-915
2. Airworthiness Category	CS-23, Normal category
3. Manufacturer	BRM Aero s.r.o. Letecká 255 686 04 Kunovice Czech Republic
4. EASA Type Certification Application Date	03 December 2020
5. State of Design Authority	N/A
6. State of Design Authority Type Certificate Date	N/A
7. EASA Type Certification Date	13 January 2022

**B.II. EASA Certification Basis**

1. Reference Date for determining the applicable requirements	03 December 2020
2. Airworthiness Requirements	CS-23 [Certification Specifications for Normal-Category Aeroplanes] Amdt. 5, dated 29 March 2017 CS-ACNS, Issue 2, dated 26 April 2019
3. Special Conditions	None
4. Exemptions	None
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	None
7. Environmental Protection	see TCDSN EASA.A.642







## 9. Fluid capacities

### 9.1 Fuel

Total capacity: 2x60L

Usable capacity: 2x56L

### 9.2 Oil

Max. approx. capacity: 3.6 L

### 9.3 Coolant system capacity

Capacity: 2.5 L

## 10. Air Speeds: EAS≈CAS (IAS)

V<sub>SO</sub>: 43 kts (44 kts)

V<sub>S</sub>: 50 kts (51 kts)

V<sub>FE</sub>: 81 kts (84 kts)

V<sub>A</sub>: 98 kts (101 kts)

V<sub>C</sub>: 135 kts (138 kts)

V<sub>NE <FL110</sub>: 156 kts (159kts)

V<sub>NE >FL110</sub>: 193 kts TRUE airspeed

## 11. Flight Envelope

Max. operating altitude above MSL: 18.000 ft

## 12. Approved Operations Capability

VFR Day / VFR Night (see B.V.1)

## 13. Maximum Masses

Max. Take-off mass is 750 kg

## 14. Centre of Gravity Range

from 25 %MAC to 34.5 %MAC, from 1.717 m to 1.846 m referring to datum

## 15. Datum

forward plane of the engine flange to the propeller

## 16. Control surface deflections

-Elevator 19° up, 15° down

-Aileron 24° up, 16° down

-Rudder 30° left and right

-Flap, discrete 0°/10°/25° down

## 17. Levelling Means

see AFM Section 6.2 Definitions

## 18. Minimum Flight Crew

1 pilot

## 19. Maximum Passenger Seating Capacity

1 passenger

## 20. Baggage/ Cargo Compartments

1 compartment in each wing,

1 compartment behind the occupants

## 21. Wheels and Tyres

Type and dimension of the main wheels:

- wheel rim - BERINGER - 5.00-5"

- tubeless tyre - MICHELIN AVIATOR - 5,00-5"

Type and dimension of the nose wheel:

- wheel rim - BERINGER - 5.00-5"

- tubeless tyre - MICHELIN AVIATOR - 5,00-5"

## 22. (Reserved)



#### **B.IV. Operating and Service Instructions**

- |                                |  |
|--------------------------------|--|
| 1. Flight Manual               | ADxC-73-003-AFM [Bristell B23-915 AFM]; revisions A; dated 09 December 2021 or later approved issue<br>ADxC-73-003-2-AFM [Bristell B23-915 AFM Supplement – Glider Towing]; revision A; dated 09 December 2021<br>ADxC-73-049-AFM issue B; dated 14 November 2022 or later approved issue [B23-915 G500 Avionic package] |
| 2. Maintenance Manual          | ADxC-73-003-AMM; edition 1.0; dated 09 December 2021 or later approved issue   |
| 3. Structural Repair Manual    | not available  |
| 4. Weight and Balance Manual   | ADxC-73-003-AFM; revision A; dated 09 December 2021 or later approved issue<br>ADxC-73-049-AFM issue B; dated 14 November 2022 or later approved issue [B23-915 G500 Avionic package]  |
| 5. Illustrated Parts Catalogue | not issued   |

#### **B.V. Notes**

1. In order to show the compliance with the CS-23, Amdt. 5, certification basis, the AMC to CS-23 was used by the TC holder complemented by following Means of Compliance for specific design features:
  - a) SC-ELA.2015-01 [Lithium battery installations] Issue 1
  - b) SC-OVLA.div-03 [Night VFR operation with VLA] Issue 2
  - c) ASTM F2316-12 [Aircraft Emergency Parachute System]
  - d) ELOS-VLA.0991-01 [Fuel Pumps], issue 2, dated 13-NOV-2018
  - e) SC-OVLA-div-02 [Glider Towing], issue 1, dated 02-JUN-2015



**SECTION C: BRISTELL B23-915 IFR**

**C.I. General**

1. Type/ Model	
1.1 Type	Bristell B23
1.2 Model	Bristell B23-915 IFR
2. Airworthiness Category	CS-23, Normal category
3. Manufacturer	BRM Aero s.r.o. Letecká 255 686 04 Kunovice Czech Republic
4. EASA Type Certification Application Date	11 March 2022
5. State of Design Authority	N/A
6. State of Design Authority Type Certificate Date	N/A
7. EASA Type Certification Date	09 December 2024

**C.II. EASA Certification Basis**

1. Reference Date for determining the applicable requirements	11 March 2022
2. Airworthiness Requirements	CS-23 [Certification Specifications for Normal-Category Aeroplanes] Amdt. 5, dated 29 March 2017 CS-ACNS, Issue 2, dated 26 April 2019
3. Special Conditions	None
4. Exemptions	None
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	None
7. Environmental Protection	see TCDSN EASA.A.642





## 9. Fluid capacities

9.1 Fuel	Total capacity: 2x60L Usable capacity: 2x56L
9.2 Oil	Max. approx. capacity: 3.6 L
9.3 Coolant system capacity	Capacity: 2.5 L

## 10. Air Speeds: EAS≈CAS (IAS)

V <sub>SO</sub> :	43 kts (44 kts)
V <sub>S</sub> :	50 kts (51 kts)
V <sub>FE</sub> :	81 kts (84 kts)
V <sub>A</sub> :	98 kts (101 kts)
V <sub>C</sub> :	135 kts (138 kts)
V <sub>NE &lt;FL110</sub> :	156 kts (159kts)
V <sub>NE &gt;FL110</sub> :	193 kts TRUE airspeed

## 11. Flight Envelope

Max. operating altitude above MSL: 18.000 ft

## 12. Approved Operations Capability

VFR Day / VFR Night / IFR (see C.V.2)

## 13. Maximum Masses

Max. Take-off mass is 750 kg

## 14. Centre of Gravity Range

from 25 %MAC to 34.5 %MAC, from 1.717 m to 1.846 m referring to datum

## 15. Datum

forward plane of the engine flange to the propeller

## 16. Control surface deflections

-Elevator 19° up, 15° down

-Aileron 24° up, 16° down

-Rudder 30° left and right

-Flap, discrete 0°/10°/25° down

## 17. Levelling Means

see AFM Section 6.2 Definitions

## 18. Minimum Flight Crew

1 pilot

## 19. Maximum Passenger Seating Capacity

1 passenger

## 20. Baggage/ Cargo Compartments

1 compartment in each wing,

1 compartment behind the occupants

## 21. Wheels and Tyres

Type and dimension of the main wheels:

- wheel rim - BERINGER - 5.00-5"

- tubeless tyre - MICHELIN AVIATOR - 5,00-5"

Type and dimension of the nose wheel:

- wheel rim - BERINGER - 5.00-5"

- tubeless tyre - MICHELIN AVIATOR - 5,00-5"

## 22. (Reserved)



#### **C.IV. Operating and Service Instructions**

- |                                |   |
|--------------------------------|---|
| 1. Flight Manual               | ADxC-73-027-AFM [Bristell B23-915 IFR AFM]; revisions A; dated 29 November 2024 or later approved issue<br>ADxC-73-003-2-AFM [Bristell B23-915 AFM Supplement – Glider Towing]; revision A1; dated 24 November 2023 |
| 2. Maintenance Manual          | ADxC-73-003-AMM; edition 1.1; dated 23 February 2023 or later approved issue<br>ADxC-73-027-AMM; edition 1.0; dated 27 November 2024  |
| 3. Structural Repair Manual    | not available   |
| 4. Weight and Balance Manual   | ADxC-73-027-AFM; revision A; dated 29 November 2024 or later approved issue   |
| 5. Illustrated Parts Catalogue | not issued  |

#### **C.V. Notes**

1. In order to show the compliance with the CS-23, Amdt. 5, certification basis, the AMC to CS-23 was used by the TC holder complemented by following Means of Compliance for specific design features:

- a) SC-ELA.2015-01 [Lithium battery installations] Issue 1
- b) SC-OVLA.div-03 [Night VFR operation with VLA] Issue 2
- c) ASTM F2316-12 [Aircraft Emergency Parachute System]
- d) ELOS-VLA.0991-01 [Fuel Pumps], issue 2, dated 13-NOV-2018
- e) SC-OVLA-div-02 [Glider Towing], issue 1, dated 02-JUN-2015
- f) SC-OVLA-div-04 [IFR Operation for VLA], issue 2, dated 02-OCT-2014
- g) ASTM F3120-15 paragraph 8.2 [Pitot heating systems] as MOC to SCVLA.1326

2. The kinds of operation is approved for Day and Night VFR and IFR in VMC. Flights in known-icing conditions is prohibited. Flights under the conditions where the thunderstorm activity is expected are prohibited. The aircraft is not protected against catastrophic effect of lightning and the qualification of the installed storm scope (WX-500) require the limitation to IFR in VMC.



## **SECTION D: BRISTELL B23-912IS**

### **D.I. General**

1. Type/ Model	
1.1 Type	Bristell B23
1.2 Model	Bristell B23-912iS
2. Airworthiness Category	CS-23, Normal category
3. Manufacturer	BRM Aero s.r.o. Letecká 255 686 04 Kunovice Czech Republic
4. EASA Type Certification Application Date	13 August 2024
5. State of Design Authority	N/A
6. State of Design Authority Type Certificate Date	N/A
7. EASA Type Certification Date	12 May 2025

### **D.II. EASA Certification Basis**

1. Reference Date for determining the applicable requirements	13 August 2024
2. Airworthiness Requirements	CS-23 [Certification Specifications for Normal-Category Aeroplanes] Amdt. 5, dated 29 March 2017 CS-ACNS, Issue 4, dated 05 April 2022
3. Special Conditions	None
4. Exemptions	None
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	None
7. Environmental Protection	see TCDSN EASA.A.642





### D.III. Technical Characteristics and Operational Limitations

1. Type Design Definition 912iS Aircraft Assembly Dwg. No. 01B40002N, revision A or later approved revision

#### 2. Description

The airplane is a side-by-side, fuel-injected single engine two-seater. It has a tapered cantilever low wing configuration with flaps and ailerons. The empennage is conventional. The tricycle landing gear is fixed. The airframe is a lightweight structure comprising aluminium sheets riveted with blind rivets. Airplane is equipped by lithium battery installations. The optional Aircraft Emergency Parachute System (AEPS) is integral part of aircraft design (see A.V.1.).

3. Equipment: The aeroplane is equipped with an optional airframe installed AEPS.

4. Dimensions:

Wingspan (incl. wing tip lights):	9.27 m
Height	2.36 m
Length	6.58 m
Wing area	11.75 m <sup>2</sup>

#### 5. Engine

5.1. Model	ROTAX 912 iSc3 Sport
5.2 Type Certificate	EASA.E.121
5.3 Limitations	Refer to TCDS: EASA.E.121

#### 6. Load factors

Flaps up	n=+4
Flaps up	n=-2
Flaps down	n=+2
Flaps down	n=+0

#### 7. Propeller

7.1 Model	MTV-34-1-A/175-200
7.2 Type Certificate	EASA.P.049
7.3 Number of blades	three
7.4 Diameter	175 cm
7.5 Sense of Rotation	clockwise, seen from pilot's point of view

#### 8. Fluids

8.1 Fuel	See AFM section 2.13 See Rotax Service Instruction SI-912 i-001
8.2 Oil	See Rotax Operators Manual OM-912 i Series See Rotax Service Instruction SI-912 i-001
8.3 Coolant	See Rotax Operators Manual OM-912 i Series See Rotax Service Instruction SI-912 i-001



## 9. Fluid capacities

9.1 Fuel	Total capacity: 2x60L Usable capacity: 2x58L
9.2 Oil	Max. approx. capacity: 3.8 L
9.3 Coolant system capacity	Capacity: 2.5 L

## 10. Air Speeds: EAS≈CAS (IAS)

VS0: 43 kts (44 kts)  
VS: 50 kts (51 kts)  
VFE: 81 kts (82 kts)  
VA: 98 kts (99 kts)  
VC: 135 kts (136 kts)  
VNE: 156 kts (157 kts)

## 11. Flight Envelope

Max. operating altitude above MSL: 14.000 ft

## 12. Approved Operations Capability

VFR Day / VFR Night (see A.V.1)

## 13. Maximum Masses

Max. Takeoff mass is 750 kg

## 14. Centre of Gravity Range

from 25 %MAC to 34.5 %MAC, from 1.717 m to 1.846 m referring to datum

## 15. Datum

forward plane of the engine flange to the propeller

## 16. Control surface deflections

-Elevator 19° up, 15° down  
-Aileron 24° up, 16° down  
-Rudder 30° left and right  
-Flap, discrete 0°/10°/25° down

## 17. Levelling Means

see AFM Section 6.2 Definitions

## 18. Minimum Flight Crew

1 pilot

## 19. Maximum Passenger Seating Capacity

1 passenger

## 20. Baggage/ Cargo Compartments

1 compartment in each wing,  
1 compartment behind the occupants

## 21. Wheels and Tyres

Type and dimension of the main wheels:

- wheel rim - BERINGER - 5.00-5"
- tubeless tyre - MICHELIN AVIATOR - 5,00-5"

Type and dimension of the nose wheel:

- wheel rim - BERINGER - 5.00-5"
- tubeless tyre - MICHELIN AVIATOR - 5,00-5"

## 22. (Reserved)



#### **D.IV. Operating and Service Instructions**

1. Flight Manual	B23912iS-AFM-5-8-11; issue 1, dated 12-May-2025 or later approved issue
2. Maintenance Manual	B23912iS-AMM-5-8-11; initial issue; dated 31-Mar-2025 or later approved issue
3. Structural Repair Manual	not available
4. Weight and Balance Manual	B23912iS-AFM-5-8-11; issue 1, dated 12-May-2025 or later approved issue
5. Illustrated Parts Catalogue	not issued

#### **D.V. Notes**

1. In order to show the compliance with the CS-23, Amdt. 5, certification basis, the AMC to CS-23 was used by the TC holder complemented by following Means of Compliance for specific design features:

- a) ASTM F3235-22 paragraph 4.2.1 to 4.2.14 [Lithium battery installation]
- b) SC-OVLA.div-03 [Night VFR operation with VLA] Issue 2
- c) ASTM F2316-12 [Aircraft Emergency Parachute System]
- d) ELOS-VLA.0991-01 [Fuel Pumps], issue 2, dated 13-NOV-2018



## SECTION ADMINISTRATIVE

### I. Acronyms & Abbreviations

n/a

### II. Type Certificate Holder Record

<b>TC Holder</b>	<b>Period</b>
<b>BRM Aero s.r.o.</b> Letecká 255 686 04 Kunovice CZECH REPUBLIC  Since <b>04 November 2024</b> BRM Aero is the holder of DOA EASA.21J.766	Since 07 October 2020
Contracted DOA Holder based on 21.A.2:  <b>Aircraft Design Certification GmbH</b> Reichensteinstr. 48 69151 Neckargemünd Germany EASA.21J.411	07 October 2020 – 03 November 2024



### III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	07 October 2020	Initial issue of TCDS	Initial / 07 October 2020
Issue 02	13 January 2022	Corrected AFT CG information and elevator deflections; clarification of optional AEPS system. Implementation of section B: model B23-915.	Issue 2 / 13 January 2022
Issue 03	13 October 2022	Administrative corrections in A.III.16 and B.III.16 to be in line with design data	Issue 2 / 13 January 2022
Issue 04	07 March 2023	Addition of "G500 avionics package" AFM in A.IV.1; A.IV.4; B.IV.1 and B.IV.4	Issue 2 / 13 January 2022
Issue 05	09 December 2024	Implementation of Section C: model B23-915 IFR	Issue 3 / 09 December 2024
Issue 06	03 April 2025	Entry into force of BRM Aero DOA EASA.21J.766 on 04 November 2024	Issue 3 / 09 December 2024
Issue 07	15 May 2025	Implementation of section D: model B23-912iS	Issue 4 / 15 May 2025

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