

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A19EU
Revision 1
AERONAUTICA MACCHI
AERFER
AM-3

February 26, 1969

TYPE CERTIFICATE DATA SHEET NO. A19EU

This data sheet which is a part of type certificate No. A19EU prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holders (See NOTE 4)	AERONAUTICA MACCHI S.p.A. & AERFER-INDUSTRIE AEROSPAZIALI Via Sanvito Silvestro, 80 Varese, Italy	MERIDIONALI S.p.A. Pomigliano D'Arco, Napoli, Italy
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I. Model AM-3 (Normal and Utility Category), Approved November 15, 1968.

Engine	Continental GTSIO-520-C
Fuel	100/130 minimum grade aviation gasoline
Engine Limits	For all operations: 34.5 in.hg., 3200 r.p.m. (340 h.p.)
Propeller and Propeller Limits	Hartzell HC-A3VF-4/V8833 Diameter: Maximum 88 3/8 in., Minimum allowable for repair 86 3/8 in. (No further reduction permitted) Pitch setting at 30 in. radius: Low 15.0 degrees, High 36.7 degrees
Airspeed Limits (IAS)	Never exceed 172 knots (198 m.p.h.) Maximum structural cruising 125 knots (144 m.p.h.) Maneuvering 123 knots (142 m.p.h.) Flaps extended 93 knots (107 m.p.h.)
C.G. Range	Utility Category: (+124.0) to (+133.8) at 3086 lb. or less (+125.3) to (+133.8) at 3307 lb. Straight line variation between points given. Normal Category: (+124.0) to (+133.8) at 3086 lb. or less (+125.2) to (+133.8) at 3307 lb. (+128.0) to (+132.3) at 3858 lb. Straight line variation between points given.
Empty Weight C.G. Range	None.
Datum	110.16 in. forward of leading edge of wing at wing root.
Levelling Means	Cabin floor, front seat rails.

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Maximum Weight	<u>Utility Category</u>		<u>Normal Category</u>
	Takeoff	3307 lbs	3858 lbs
	Landing	3307 lbs	3664 lbs
No. Seats	3; 1 (+118.1), 1 (+157.5), 1 (+183.9)		
Maximum Baggage	200 lb. (+183.9)		
Fuel Capacity	63 gal. total; 58.5 gal. usable (2 wing tanks) (+137.5)		
Oil Capacity	13 qt. (+50.4), usable 9 qt. See NOTE 1 for unusable fuel and oil.		
Control Surface Movements	Wing Flaps		Down $37^{\circ} \pm 1^{\circ}$
	Aileron	Up $18^{\circ} \pm 1^{\circ}$	Down $11^{\circ} 30' \pm 1^{\circ}$
	Elevator	Up $30^{\circ} \pm 1^{\circ}$	Down $20^{\circ} \pm 1^{\circ}$
	Rudder	Right $19^{\circ} \pm 1^{\circ}$	Left $20^{\circ} \pm 1^{\circ}$
	Horizontal Stabilizer	(Plus) $3^{\circ} \pm 1/2^{\circ}$	(Minus) $7^{\circ} \pm 1/2^{\circ}$
Serial Numbers Eligible	The Registro Aeronautico Italiano (R.A.I.) Certificate of Airworthiness endorsed as noted below under "Import Requirements" must be submitted for each individual aircraft for which certification is made.		
Certification Basis	FAR 21.29, FAR 23 effective February 1, 1965, including Amendment 23-1 through 23-3. Type Certificate No. A19EU issued November 15, 1968. Date of Application for Type Certificate: November 16, 1965.		
Import Requirements	A U.S. Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export signed by a representative of the Registro Aeronautico Italiano (R.A.I.) containing the following statement: "The airplane covered by this certificate has been examined and found to comply with U.S. Federal Aviation Regulation FAR 23, effective February 1, 1965 including Amendment 23-1 through 23-3 and conforms to T.C. A19EU."		
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (See Certification Basis) must be installed in the aircraft for certification. In addition, the following items of equipment are required: (a) Pre-stall warning indicator, Safe Flight Instrument Corp. 164 R. (b) R.A.I. approved Airplane Flight Manual dated October 31, 1968.		

NOTE 1. Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at time of original certification.

The certificated empty weight and corresponding center of gravity locations must include unusable oil of 7.5 lb. at (+50.4) and unusable fuel of 27 lb. at (+137.5).

NOTE 2. The following placard must be displayed on the forward instrument panel in front and in clear view of the pilot:

"THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE APPROVED AIRPLANE FLIGHT MANUAL. ALL MARKINGS AND PLACARDS ON THIS AIRPLANE APPLY TO ITS OPERATIONS AS A NORMAL CATEGORY AIRPLANE, FOR UTILITY CATEGORY OPERATIONS, REFER TO THE AIRPLANE FLIGHT MANUAL. NO ACROBATIC MANEUVERS, INCLUDING SPINS, ARE APPROVED FOR NORMAL CATEGORY OPERATIONS."

FOOTNOTE:

All placards required in the approved Airplane Flight Manual must be installed in the appropriate locations.

NOTE 3. Each individual airplane will be supplied with a placard that specifies the kinds of operation such as VFR or IFR, Day or Night, to which the operation of the airplane is limited by the equipment installed.

NOTE 4. Aeronautica Macchi S.p.A. is the responsible Company and contact for any notification and action with the Federal Aviation Administration.

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