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I. General

1. Type / Models:

Rotax 275

2. Type Certificate Holder:

Since February 3, 2009	BRP-Powertrain GmbH & Co KG Welser Straße 32 A-4623 Gunskirchen, Austria DOA EASA.21J.048
Before February 3, 2009	BRP-Rotax GmbH & Co. KG Welser Straße 32 A-4623 Gunskirchen, Austria DOA EASA.21J.048
Before June 16, 2004	Bombardier-Rotax GmbH & Co. KG Welser Straße 32 A-4623 Gunskirchen, Austria
Before December 29, 2001	Bombardier-Rotax Gesellschaft mbH Welser Straße 32 A-4623 Gunskirchen, Austria

3. Manufacturer:

As above

4. Certification Application Date:

Not known, before November 1988

5. EASA Certification Date:

Rotax 275
09.11.1988

Note: EASA type certificate for all these models is granted in accordance with article 2 paragraph 3(a) of EU Commission Regulation 1702/2003 replacing the BAZ/ACG Austria certification of these products (Austrian Type Certification no. TW 7/88)

II. Certification Basis

1. Airworthiness Standards:

JAR 22, airworthiness standards for aircraft engines of motor gliders

2. Special Conditions (SC):

none

3. Deviations:

none

4. Equivalent Safety Findings (ESF):

none

5. Environmental Protection Requirements:

none

III. Technical Characteristics

1. Type Design Definition:

As defined the type design definition number 78.275.

2. Description:

ROTAX 275 engine: 1 cylinder, two stroke engine, ram air cooling, mixture lubrication, single magneto ignition, diaphragm carburetor, gear driven propeller, manual starter, alternator, fuel pump

Weight (dry):	25 kg (with muffler and starter)
Bore:	72 mm
Stroke:	66 mm
Displacement:	268,7 cm ³
Compression Ratio:	11,8
Crankshaft drive rotation:	counter clockwise (viewed from front)
Drive rotation on propeller flange on gear:	clockwise (viewed from front)

3. Equipment:

Carburetor:	Diaphragm carburetor type BN 38 main jet 7/8 turn open
Fuel pump:	electric pump Facet
Ignition system:	magneto ignition system (BOSCH SCP 1), 12 Volt, 75/23 Watt ignition point 2,28 mm BTC
Spark plugs:	B 8 ES, Bosch W3CC, W3CP
Starter:	manual starter
Power drive:	propeller flange
Revolution measurement:	supply for an electronic tachometer

4. Dimension:

not determined

5. Dry Weight:

not determined

6. Ratings:

	kw	PS	1/min
Take off power:	17,6	24	7000
max. continuous:	17,6	24	7000

7. Fluids (Fuel/Oil/Additives/Coolant):

7.1 Fuel

Fuel: 2 stroke mixture
super gasoline min 96 ROZ or AVGAS 100 LL

Description	German	English
See Operator's Manual	HB-275	OM-275
See Service Instruction	n.a.	n.a.

7.2 Oil

Lubrication: Mixture lubrication
mixing ratio 1:50
with super two stroke oil

Gear Oil: SAE 140, API GL5, ca. 300 cm³

Description	German	English
See Operator's Manual	HB-275	OM-275
See Service Instruction	n.a.	n.a.

7.3 Coolant

Description	German	English
See Operator's Manual	HB-275	OM-275
See Service Instruction	n.a.	n.a.

8. Aircraft Accessory Drives:

none

IV. Operational Limitations

1. Temperature Limits:

Cylinder head temperature	max. 250°C
measured with thermo couple under spark plug	

2. Speed Limits:

max. RPM	7200
recommended Cruising RPM:	6300
idling RPM:	approx. 3000

V. Operational and Service Instructions

Description	german	english
Operation- and Maintenance instruction	HB-275	OM-275
Installation Manual	EBHB-275	IM-275
Repair Manual	RHB-275	RM-275
Service Bulletins, Service Instructions and Service Letters	as issued	as issued

VI. Notes

Note 1: Fuel consumption

At 100 % power approx. 11,8 l/h (3,11 Gal/h) and at 75 % power approx. 8,5 l/h (2,25 Gal/h).
