

KEY FEATURES

- High power handling 400 W_{AES}
- High sensitivity: 97 dB (1W / 1m)
- 3" copper voice coil
- Extended controlled displacement: $X_{max} \pm 7,25$ mm
- 30 mm peak-to-peak excursion before damage
- Designed for high power woofer applications



TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7 Ω
Power capacity ¹		400 W _{AES}
Program power ²		800 W
Sensitivity	97 dB	1W / 1m @ Z _N
Frequency range		40 - 4.000 Hz
Recom. enclosure vol.	30 / 100 l	1,1 / 3,5 ft ³
Voice coil diameter	76,2 mm	3 in
BI factor		17 N/A
Moving mass		0,058 kg
Voice coil length		17,5 mm
Air gap height		7 mm
X _{damage} (peak to peak)		30 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	40 Hz
D.C. Voice coil resistance, R _e	6,2 Ω
Mechanical Quality Factor, Q _{ms}	8
Electrical Quality Factor, Q _{es}	0,31
Total Quality Factor, Q _{ts}	0,30
Equivalent Air Volume to C _{ms} , V _{as}	117 l
Mechanical Compliance, C _{ms}	273 μ m / N
Mechanical Resistance, R _{ms}	1,8 kg / s
Efficiency, η_0	2,1 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ⁴	7,25 mm
Displacement Volume, V _d	398 cm ³
Voice Coil Inductance, L _e	1,2 mH

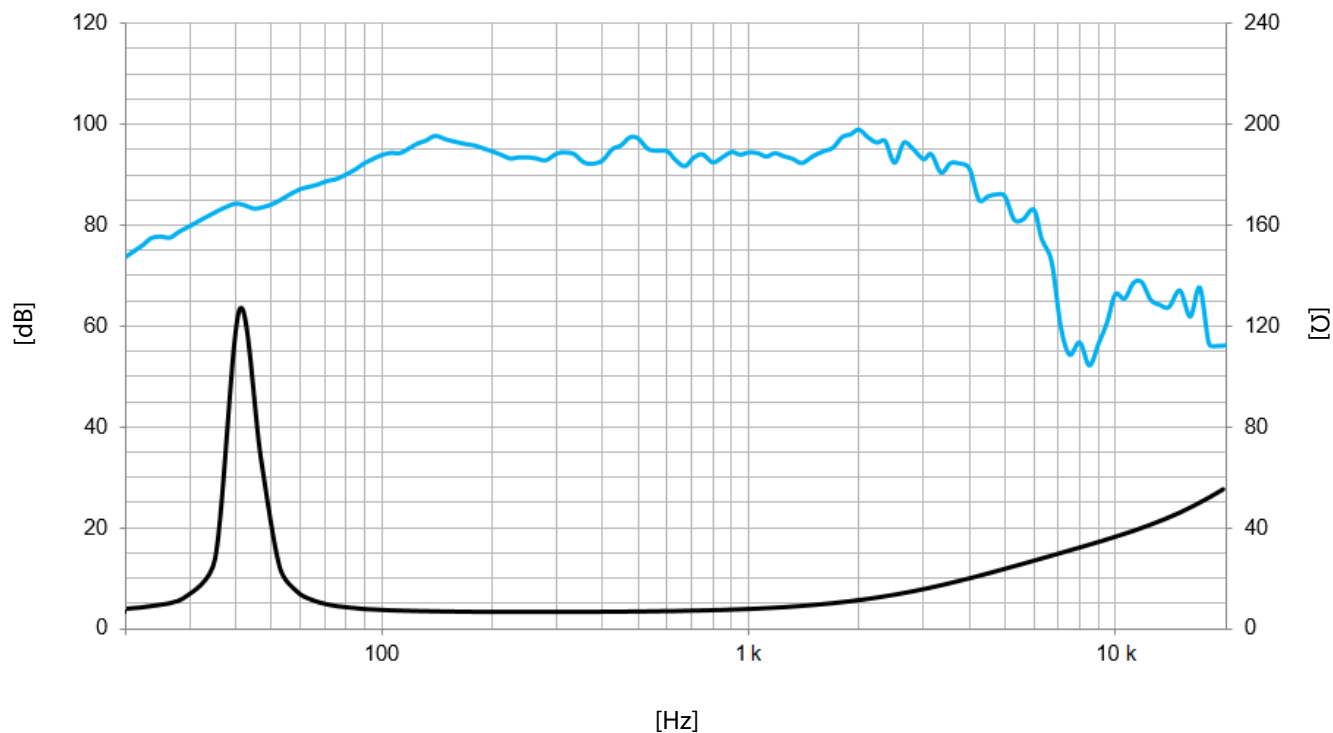
Notes:

¹ The power capacity is determined according to AES2-1984 (r2003) standard.

² Program power is defined as power capacity + 3 dB.

³ T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

⁴ The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.



Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	294,5 mm	11,6 in
Baffle cutout diameter:		
- Front mount	278 mm	10,9 in
Depth	134 mm	5,3 in
Volume displaced by driver	4,5 l	0,16 ft ³
Net weight	5,6 kg	12,4 lb
Shipping weight	6,3 kg	13,9 lb

DIMENSION DRAWING

