12 INCH HIGH POWER WOOFER LOUDSPEAKER

APPLICATION

For high-fidelity bass reproduction in sealed acoustic enclosure. Recommended volume of enclosure 80 litres. The loudspeaker has a very low distortion.

TECHNICAL DATA

	version W4	version W8	
Rated impedance	4	8	Ω
Voice coil resistance	3,3	6,7	Ω
Rated frequency range		35 to 1800	Hz
Resonance frequency		22	Hz
Power handling capacity, mounted in 80 l sealed enclosure, measured without filter		80	W
Maximum power on loudspeaker		*	W
Operating power		5	W
Sweep voltage, frequency range: 35 to 2000 Hz	7	10	V
Characteristic sensitivity	88	*	dB
Energy in air gap	485	508	mJ
Flux density	0,65	0,72	T
Force factor (B x l) at 1 A	9,5	13	Wb/m
Total moving mass	67×10^{-3}	62×10^{-3}	kg
Compliance, loudspeaker unmounted	$0{,}8 \times 10^{-3}$	$0{,}9 \times 10^{-3}$	m/N
Air-gap height		7	mm
Voice coil height		17	mm
Core diameter		50	mm
Magnet material		ceramic	
diameter		125	mm
mass		0,85	kg
Mass of loudspeaker		3	kg

The loudspeaker has a paper cone, a rubber surround and black foam gaskets. Connection to the loudspeaker by means of 5,1 mm (0,2 inch) or 2,8 mm (0,11 inch) tag connectors or by soldering.

* To be established.

Dimensions in mm

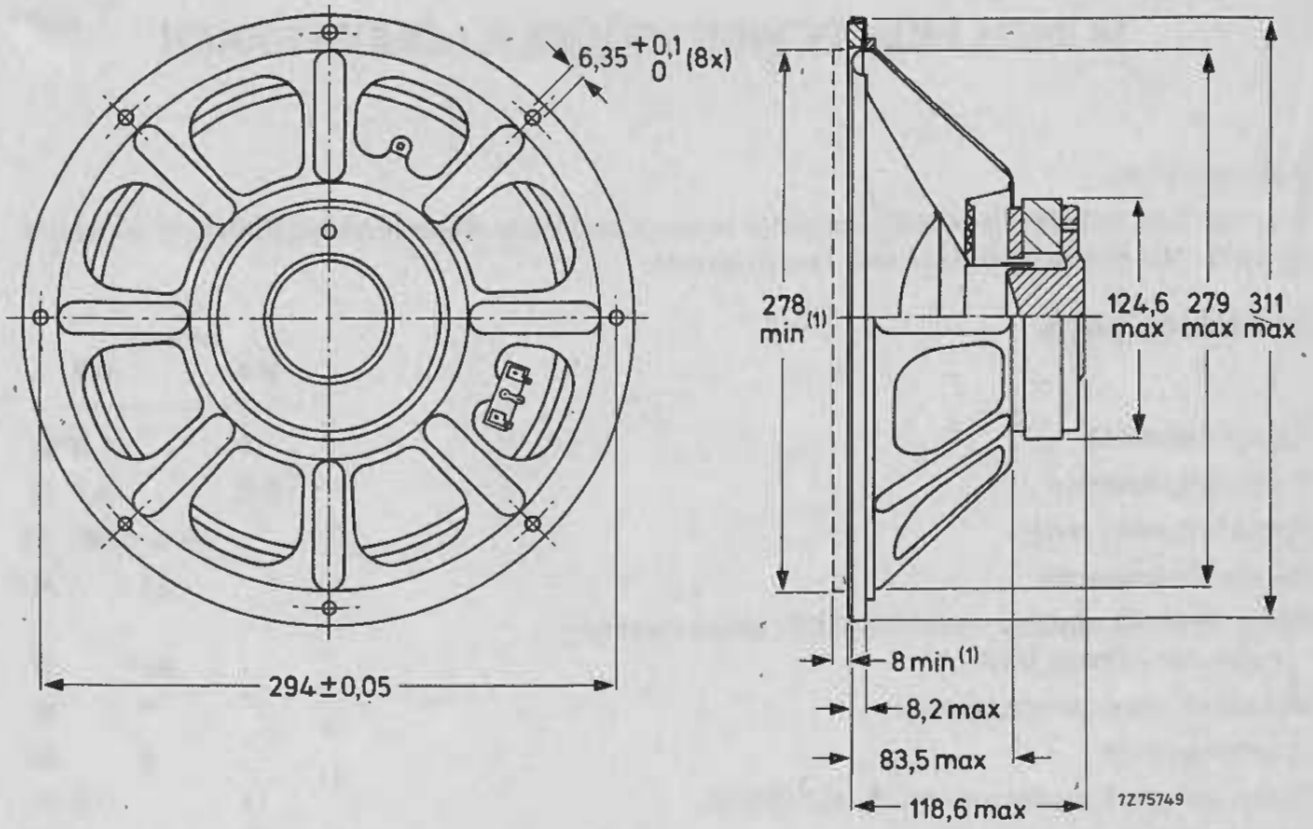

Fig. 1.

(1) Baffle hole and clearance depth required for cone movement at the specified power handling capacity.

One tag is indicated by a red mark for in-phase connection.

AVAILABLE VERSION

AD12200/W4, catalogue number 2422 257 315.1
AD12200/W8, catalogue number 2422 257 315.2

1 = stamped on loudspeaker magnet, **not to be used** for ordering

3 = for bulk packing*
7 = for single unit packing

FREQUENCY RESPONSE CURVES (see Fig. 2)

Curve a: Sound pressure measured in anechoic room, loudspeaker mounted in 80 l enclosure.

Curves d2 and d3: 2nd and 3rd harmonic distortion, measured at the operating power of 5 W in anechoic room, loudspeaker mounted in sealed 80 l enclosure, filled with 0,5 kg of glass wool.

* Minimum packing quantity 1 per unit.

DEVELOPMENT SAMPLE DATA

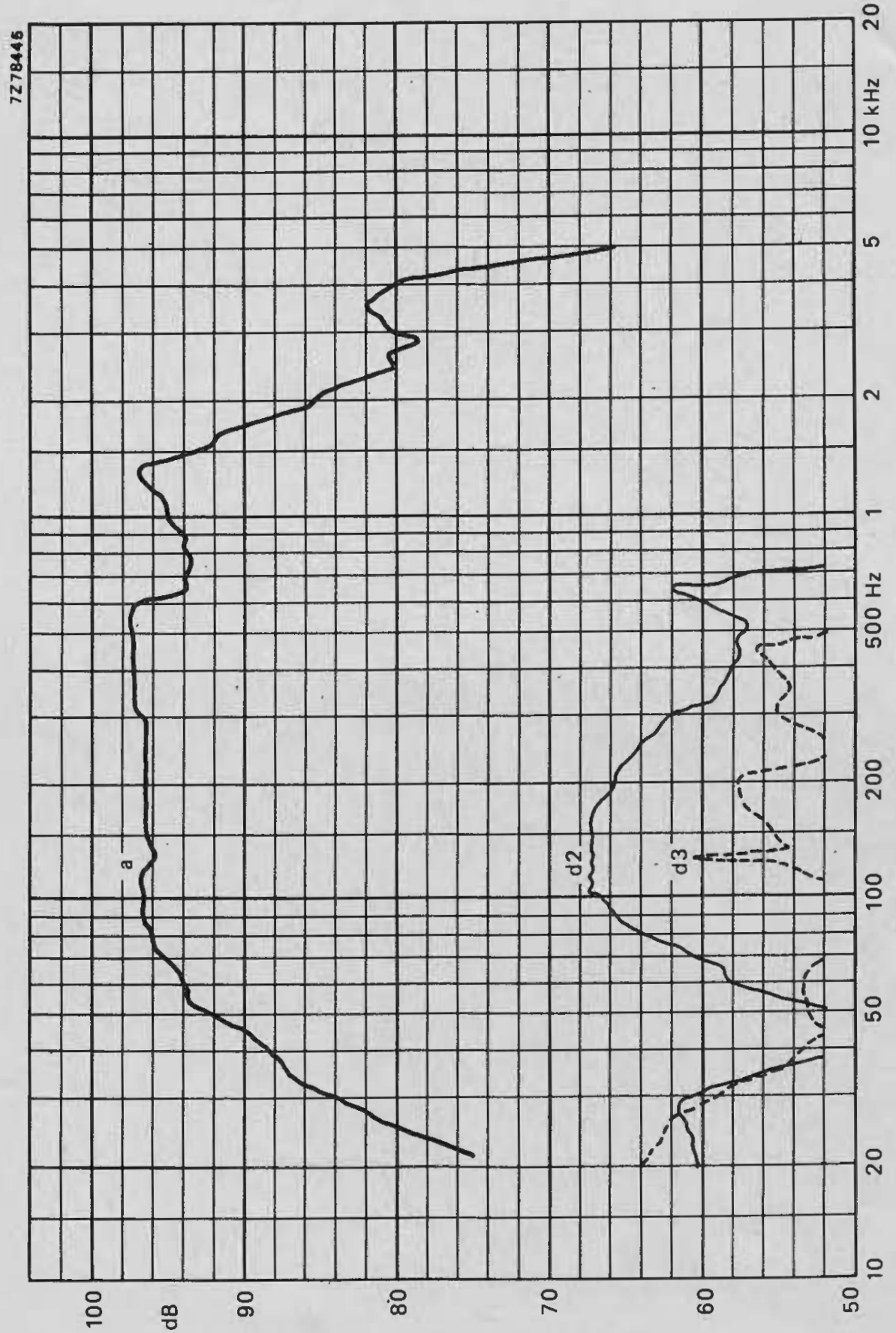

Fig. 2.