

## 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	W8
Rated impedance	4	8 $\Omega$
Voice coil resistance	3	5,9 $\Omega$
Rated frequency range	35 to 2000 Hz	
Resonance frequency	20	23 Hz
Power handling capacity, mounted in 80 l sealed enclosure, measured without filter	60	W
Maximum power on loudspeaker	100	W
Operating power	5	4 W
Sweep voltage, frequency range: 35 to 2000 Hz	6,7	7,5 V
Characteristic sensitivity	87	88 dB
Energy in air gap	220	245 mJ
Flux density	0,68	0,75 T
Force factor (B x l) at 1 A	6,9	7,9 Wb/m
Total moving mass	$52 \times 10^{-3}$	$49 \times 10^{-3}$ kg
Compliance, loudspeaker unmounted	$1,34 \times 10^{-3}$	$1,77 \times 10^{-3}$ m/N
Air-gap height	5	mm
Voice coil height	16	mm
Core diameter	35	mm
Magnet material	ceramic	
diameter	90	mm
mass	0,53	kg
Mass of loudspeaker	1,8	kg

The loudspeaker has a paper cone and a foam rubber surround. 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.

### Dimensions (mm)

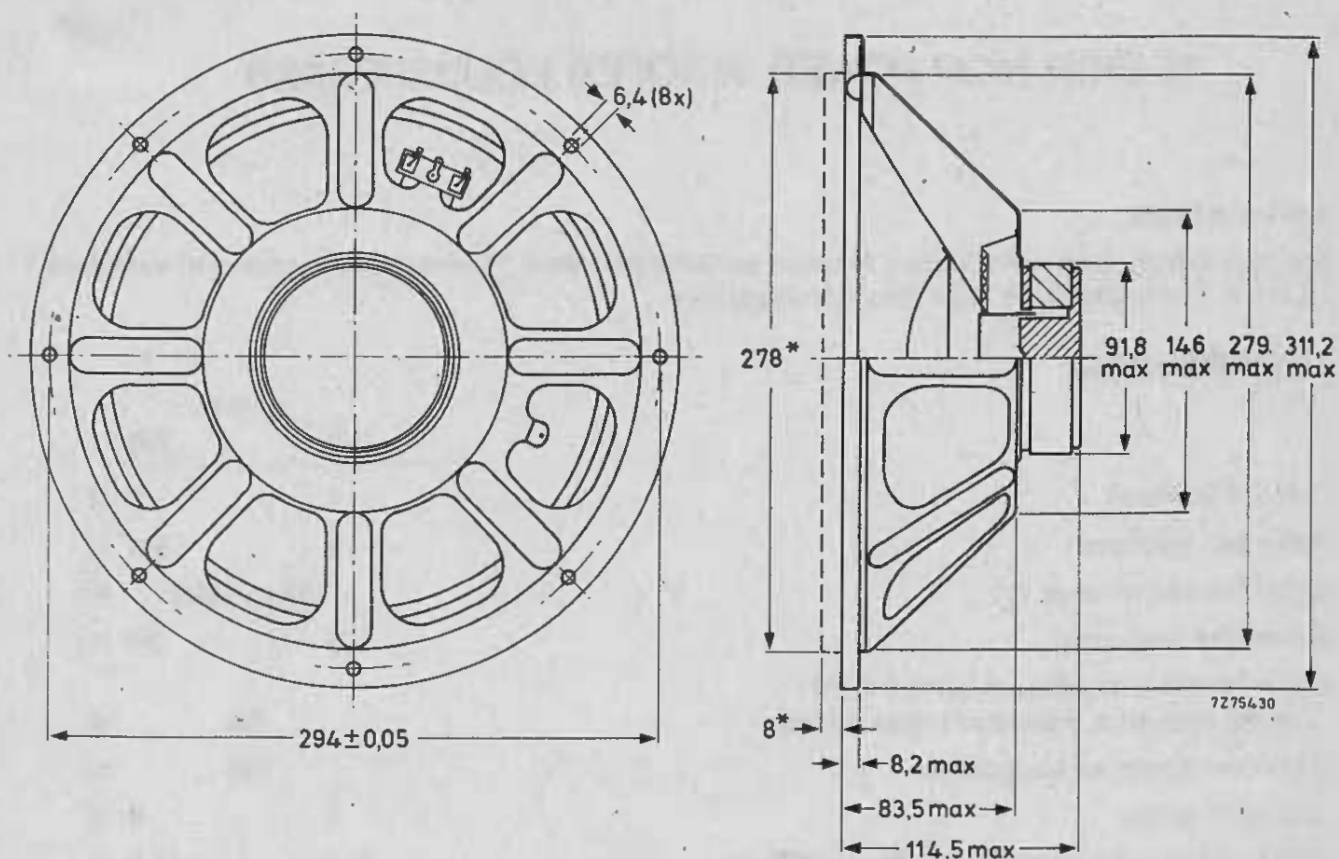


Fig.1

\* 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 VERSIONS

AD12650/W4, catalogue number 2422 257 314.1

AD12650/W8, catalogue number 2422 257 314.2

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.

Curves d2 and d3: 2nd and 3rd harmonic distortion.

The curves are measured in anechoic room at the operating power, the loudspeaker mounted in sealed 80 l enclosure, filled with 0,5 kg of glass wool.

**\*\* Minimum packing quantity 1 per unit.**

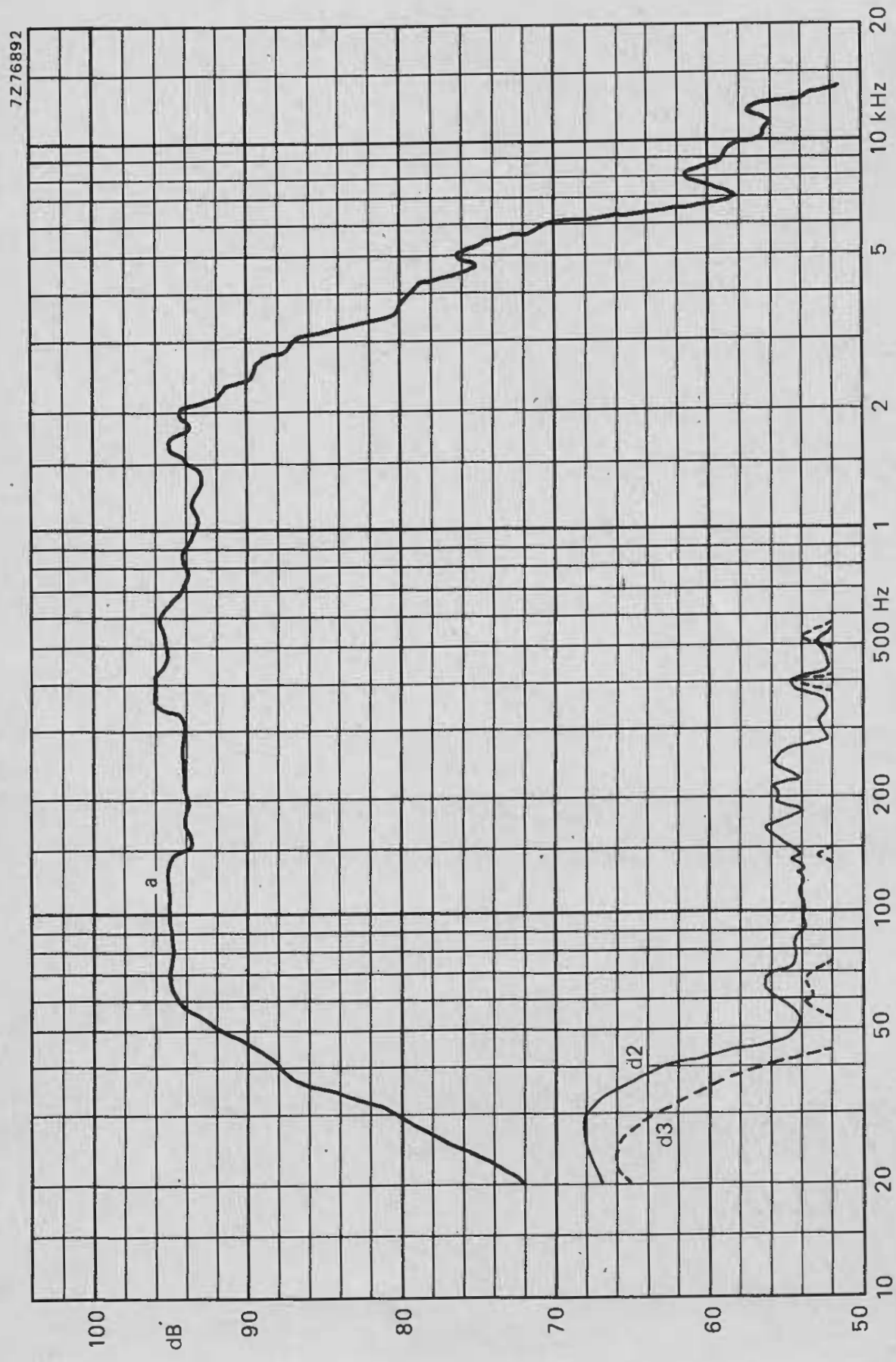


Fig. 2.