



Technical data

4T-HM89249/HM89210

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



4T-HM89249/HM89210

Single row tapered roller bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	36,512 mm
D - External diameter	79,375 mm
B - Bearing/Inner ring width	28,829 mm
C - Outer ring width	22,664 mm
T - Total width	29,37 mm
d1 - External diameter inner ring	59,5 mm
a - Charge load application point	23,57 mm
Mass	0,689 kg

PRODUCT PERFORMANCE

C - Dynamic load	95,5 kN
C0 - Static load	104 kN
Cu - Fatigue limit load	12,7 kN
A2 - Rating life coefficient	1
e - Coefficient	0.55
Y0 - Static axial load coefficient	0.6
Y2 - Upper axial load coefficient	1.1
N lim - Oil lubrication limit speed	6600 tr/min
N lim - Grease lubrication limit speed	5000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da max - Max shoulder diameter IR	44 mm
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NTN Europe

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

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ABUTMENT	
db min - Min IR shoulder diameter	55 mm
Da max - Max shoulder diameter OR	66 mm
Db min - Min OR shoulder diameter	75 mm
ra max - Max fillet radius	3,5 mm
r1a - Max fillet radius	3,3 mm

ESHOPDONOTDISPLAY	
Tracepart	Oui/Yes
Reference	4T-HM89249/HM89210
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
ULTAGE	Non/No
Rolling element material	Acier de cémentation



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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.F_r + Y.F_a$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$P_0 = X_0.F_r + Y_0.F_a$

X_0	Y_0
0.5	Y0

If $P_0 \leq F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table

