



Technical data

4T-LM11949/LM11910

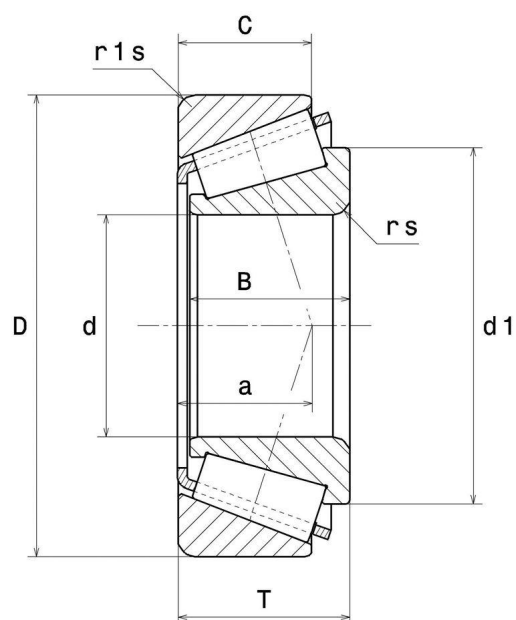
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

KIT CONTENT

4T-LM11949, 4T-LM11910

VISUAL (S)



4T-LM11949/LM11910
Single row tapered roller bearings



PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	19,05 mm
D - External diameter	45,237 mm
B - Bearing/Inner ring width	16,637 mm
C - Outer ring width	12,065 mm
T - Total width	15,494 mm
d1 - External diameter inner ring	31 mm
a - Charge load application point	9,894 mm
Mass	0,123 kg

PRODUCT PERFORMANCE	
C - Dynamic load	31,5 kN
C0 - Static load	28,6 kN
Cu - Fatigue limit load	3,5 kN

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PRODUCT PERFORMANCE

A2 - Rating life coefficient	1
e - Coefficient	0.3
Y0 - Static axial load coefficient	1.1
Y2 - Upper axial load coefficient	2
N lim - Oil lubrication limit speed	12000 tr/min
N lim - Grease lubrication limit speed	8900 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da max - Max shoulder diameter IR	23,5 mm
db min - Min IR shoulder diameter	28 mm
Da max - Max shoulder diameter OR	39,5 mm
Db min - Min OR shoulder diameter	41,5 mm
ra max - Max fillet radius	1,3 mm
r1a - Max fillet radius	1,3 mm



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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

