

Technical data

33022U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	110 mm
D - External diameter	170 mm
B - Bearing/Inner ring width	47 mm
C - Outer ring width	37 mm
T - Total width	47 mm
a - Charge load application point	33,5 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	2 mm
Mass	3,84 kg
ISO 355 reference	T2DE110

PRODUCT PERFORMANCE

C - Dynamic load	320000000 mN
C0 - Static load	500000000 mN
Cu - Fatigue limit load	55500000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.29
Y0 - Static axial load coefficient	1.15
Y2 - Upper axial load coefficient	2.09
N lim - Oil lubrication limit speed	16200 °/s
N lim - Grease lubrication limit speed	12000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K



ABUTMENT	
da max - Max shoulder diameter IR	122 mm
db min - Min IR shoulder diameter	121 mm
Da max - Max shoulder diameter OR	160 mm
Db min - Min OR shoulder diameter	161 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	2 mm

OE EQUIVALENTS	
Manufacturer	Part number
Mercedes	004 981 0905

AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
Mercedes	ACTROS	ACTROS	04/1996 =>		Rear
Mercedes	ACTROS MP2 / MP3	ACTROS MP2 / MP3	10/2002 =>		Front
Mercedes	ACTROS MP2 / MP3	ACTROS MP2 / MP3	10/2002 =>		Rear
Mercedes	ACTROS MP4 / MP5	ACTROS MP4 / MP5	07/2011 =>		Rear
Mercedes	ACTROS MP4 / MP5	ACTROS MP4 / MP5	01/2014 =>		
Mercedes	ANTOS	ANTOS	07/2012 =>		Rear
Mercedes	AROCS	AROCS	01/2013 =>		Rear
Mercedes	ATEGO	ATEGO	01/1998 => 10/2004		Rear
Mercedes	ATEGO 2	ATEGO 2	10/2004 =>		Rear
Mercedes	AXOR	AXOR	01/2002 => 10/2004		Rear
Mercedes	AXOR 2	AXOR 2	10/2004 =>		Rear



AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
Mercedes	ECONIC	ECONIC	10/2000 =>		Rear
Mercedes	ECONIC 2	ECONIC 2	04/2013 =>		Rear
Mercedes	INTEGRO (O 550)	INTEGRO (O 550)	01/2006 =>		Rear
Mercedes	INTOURO	INTOURO	01/2005 =>		Rear
Mercedes	LK/LN2	LK/LN2	01/1984 => 12/1998		Rear
Mercedes	MK	MK	12/1987 => 09/1996		Rear
Mercedes	NG	NG	08/1973 => 09/1996		
Mercedes	NG	NG	08/1973 => 09/1996		Rear
Mercedes	O 403	O 403	09/2003 =>		Rear
Mercedes	SK	SK	07/1987 => 09/1996		
Mercedes	SK	SK	07/1987 => 09/1996		Rear
Mercedes	TOURISMO (O 350)	TOURISMO (O 350)	08/1995 =>		Rear
Mercedes	TOURO (O 500)	TOURO (O 500)	01/2001 =>		Rear
Mercedes	TRAVEGO (O 580)	TRAVEGO (O 580)	10/1999 =>		Rear
Mercedes	ZETROS	ZETROS	09/2008 =>		Rear



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

