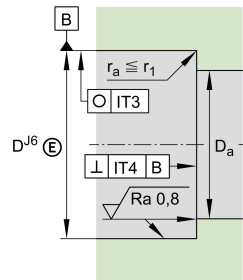


**ZARN3080-L-TV**

Needle roller/axial cylindrical roller bearing

Needle roller/axial cylindrical roller bearings
ZARN...-L, double direction, long shaft
locating washer

Technical information



Your current product variant

Cage	TV	Plastic Cage made from PA66
Locating Feature , bearing outer ring	L	Stepped shaft locating washer extended on one side

Main Dimensions & Performance Data

d	30 mm	Bore diameter
D	80 mm	Outside diameter
H	82 mm	Hight
C _a	107.000 N	Basic dynamic load rating, axial
C _{0a}	265.000 N	Basic static load rating, axial
C _r	26.000 N	Basic dynamic load rating, radial
C _{0r}	47.000 N	Basic static load rating, radial
C _{ua}	22.900 N	Fatigue load limit, axial
C _{ur}	6.800 N	Fatigue load limit, radial
n _{G Oil}	4.400 1/min	Limiting speed for oil lubrication
n _{G Grease}	1.300 1/min	Limiting speed for grease lubrication
M _{RL}	2,1 Nm	Bearing friction torque
≈m	1,711 kg	Weight

Mounting dimensions

D _{a max}	69 mm	Maximum diameter of housing shoulder
d _{a min}	50 mm	Minimum diameter shaft shoulder



Dimensions

H ₁	4,359 mm	Height outer ring over wave washer
C	20 mm	Width, outer ring
D ₁	68 mm	Rip diameter shaft washer
D ₂	52 mm	Heeldiameter wave washer long
D ₃	66 mm	Outside diameter wave washer long
B	14 mm	Width, inner ring
B ₁	30 mm	Width wave washer long
B ₂	13 mm	Width heel wave washer long
r _{min}	0,3 mm	Minimum chamfer dimension
r _{1 min}	0,6 mm	Minimum chamfer dimension

Temperature range






T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.

Additional information

c _{aL}	3.300 N/μm	Rigidity axial
c _{kL}	1.100 Nm/mrad	Tilting stiffness
M _m	7,43 kg*cm ²	Mass moment of inertia
	1 μm	Axial runout
radial	ZMA30/65	Recommended INA precision locknut for radial locking (not included)
axial	AM30	Recommended INA precision locknut for axial locking (not included)
M _A	75 Nm	Tightening torque nut
	24.287 N	Required locknut force
	52X68X8	Rotary shaft seal to DIN 3760 (not included)



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed