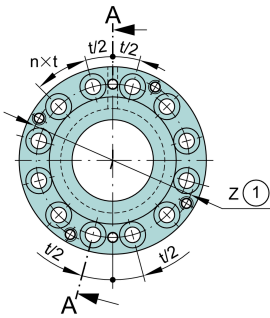


**ZARF50140-L-TV**

Needle roller/axial cylindrical roller bearing

Needle roller/axial cylindrical roller bearings
ZARF..-L, double direction, for screw
mounting, 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	50 mm	Bore diameter
D	140 mm	Outside diameter
H	103 mm	Hight
C _a	172.000 N	Basic dynamic load rating, axial
C _{0a}	480.000 N	Basic static load rating, axial
C _r	46.500 N	Basic dynamic load rating, radial
C _{0r}	103.000 N	Basic static load rating, radial
C _{ua}	44.500 N	Fatigue load limit, axial
C _{ur}	12.700 N	Fatigue load limit, radial
n _{G Oil}	3.100 1/min	Limiting speed for oil lubrication
n _{G Grease}	1.100 1/min	Limiting speed for grease lubrication
M _{RL}	3,8 Nm	Bearing friction torque
≈m	4,245 kg	Weight



Mounting dimensions

$D_{a \max}$	96 mm	Maximum diameter of housing shoulder
$d_{a \min}$	73 mm	Minimum diameter shaft shoulder
t_1	0,2 mm	Position bore in the housing

Dimensions

H_1	72 mm	Height outer ring over wave washer
C	22,5 mm	Width, outer ring
C_1	12,5 mm	Distance to lubrication hole
D_1	95 mm	Rip diameter shaft washer
D_2	75 mm	Heeldiameter wave washer long
D_3	93 mm	Outside diameter wave washer long
B	17,5 mm	Width, wave washer
B_1	38,5 mm	Width wave washer long
B_2	18 mm	Width heel wave washer long
r_{\min}	0,3 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
d_1	6 mm	Diameter lubrication hole
J	113 mm	Pitch circle diameter (holes)
n	12	Number of screwing holes
$n \times t$	30 °	Split

Temperature range







T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.



Additional information

c_{aL}	4.600 N/ μ m	Rigidity axial
c_{kL}	2.900 Nm/mrad	Tilting stiffness
M_m	35,3 kg*cm ²	Mass moment of inertia
	1 μ m	Axial runout
radial	ZMA50/92	Recommended INA precision locknut for radial locking (not included)
axial	AM50	Locknut 2
M_A	180 Nm	Tightening torque nut
	36.224 N	Preload force axial
	75X95X10	Sealing ring
	M10	Screw size
n_a	12	Number of screws
n_{axta}	30 °	Division (screwing holes)

Characteristics

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