

**ZARN1747-TV**

Needle roller/axial cylindrical roller bearing

Needle roller/axial cylindrical roller bearings  
ZARN, double direction

## Technical information

**Your current product variant**

Cage	TV	Plastic Cage made from PA66
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**Main Dimensions & Performance Data**

d	17 mm	Bore diameter
D	47 mm	Outside diameter
H	43 mm	Hight
C <sub>a</sub>	26.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	57.000 N	Basic static load rating, axial
C <sub>r</sub>	14.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	19.900 N	Basic static load rating, radial
C <sub>ua</sub>	8.000 N	Fatigue load limit, axial
C <sub>ur</sub>	3.000 N	Fatigue load limit, radial
n <sub>G Oil</sub>	7.800 1/min	Limiting speed for oil lubrication
n <sub>G Grease</sub>	2.100 1/min	Limiting speed for grease lubrication
M <sub>RL</sub>	0,4 Nm	Bearing friction torque
≈m	0,325 kg	Weight

**Mounting dimensions**

D <sub>a max</sub>	39 mm	Maximum diameter of housing shoulder
d <sub>a min</sub>	28 mm	Minimum diameter shaft shoulder



### Dimensions

H <sub>1</sub>	29,5 mm	Height outer ring over wave washer
C	16 mm	Width, outer ring
D <sub>1</sub>	38 mm	Rip diameter shaft washer
B	9 mm	Width, inner ring
r <sub>min</sub>	0,3 mm	Minimum chamfer dimension
r <sub>1 min</sub>	0,6 mm	Minimum chamfer dimension

### Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	120 °C	Operating temperature max.

### Additional information

c <sub>aL</sub>	1.600 N/μm	Rigidity axial
c <sub>kL</sub>	160 Nm/mrad	Tilting stiffness
M <sub>m</sub>	0,373 kg*cm <sup>2</sup>	Mass moment of inertia
	1 μm	Axial runout
radial	ZM17	Recommended INA precision locknut for radial locking (not included)
axial	AM17	Recommended INA precision locknut for axial locking (not included)
M <sub>A</sub>	12 Nm	Tightening torque nut
	7.078 N	Preload force axial



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed