



# Needle roller/axial cylindrical roller bearings ZARF70160-L-TV (Series ZARF..-L)

double direction, for screw mounting, long shaft locating washer

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all the guidelines in these overview pages. Further information is given on many products under the menu item "Description". You can also order comprehensive information via the Catalogue ordering system (<http://www.ina.de/content.ina.de/en/mediathek/library/library.jsp>) or by telephone on +49 (91 32) 82 - 28 97.

d	70 mm
D	160 mm
H <sub>2</sub>	103 mm
6)	Mounting dimension for seal carrier assembly DRS. Seal carriers: see under "Accessories".
B	17,5 mm
B <sub>1</sub>	38,5 mm
B <sub>2</sub>	16 mm
C	22,5 mm
C <sub>1</sub>	12,5 mm
D <sub>1</sub>	115 mm
d <sub>1</sub>	6 mm
D <sub>2</sub>	100 mm
D <sub>3</sub>	115 mm
D <sub>a</sub> max	116 mm Mounting dimensions If rotary shaft seals are used, the outside diameter of the sealing ring must be taken into consideration.
d <sub>a</sub> min	98 mm Mounting dimensions If rotary shaft seals are used, the outside diameter of the sealing ring must be taken into consideration.
H <sub>3</sub>	72 mm
J	133 mm
r <sub>1</sub> min	0,6 mm



r <sub>min</sub>	0,3 mm	
m	5,95 kg	Mass
C <sub>a</sub>	201000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	630000 N	Basic static load rating, axial
C <sub>r</sub>	56000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	119000 N	Basic static load rating, radial
n <sub>G</sub>	2400 1/min	Limiting speed for oil lubrication (valid only with adequate oil cooling)
öI		
n <sub>G</sub>	800 1/min	Limiting speed for grease lubrication
Fett		
M <sub>RL</sub>	4,8 Nm	Bearing frictional torque
C <sub>aL</sub>	5800 N/µm	Axial rigidity
c <sub>kL</sub>	6000 Nm/mrad	Tilting rigidity
M <sub>m</sub>	77,3 kg x cm <sup>2</sup>	Mass moment of inertia for rotating inner ring
	1 µm	Axial runout The axial runout data for screw drive bearing arrangements are based on the rotating inner ring.
	12	Quantity of fixing screws to DIN 912-10.9 Screws not included in delivery.
	M10	Size of fixing screws to DIN 912-10.9 Tightening torque of fixing screws according to manufacturer's data. Screws not included in delivery.
	ZMA70/110	Designation of recommended INA locknut
	AM70	Designation of recommended INA locknut
MA	330 Nm	Tightening torque Only valid in conjunction with INA precision locknuts
	47692 N	Axial preload force
DR	100X120X12	Rotary shaft seal to DIN 3760 To be ordered separately. Locknuts, rotary shaft seal and fixing screws not included in delivery.



