



# Needle roller/axial cylindrical roller bearings ZARF35110-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         | 35 mm  |   |
| D         | 110 mm   |   |
| H2        | 82 mm  |   |
| 6)        | Mounting dimension for seal carrier assembly DRS.<br>Seal carriers: see under "Accessories". |   |
| B         | 14 mm  |   |
| B1        | 30 mm  |   |
| B2        | 12 mm  |   |
| C         | 18 mm  |   |
| C1        | 10 mm  |   |
| D1        | 73 mm  |   |
| d1        | 3,2 mm   |   |
| D2        | 60 mm  |   |
| D3        | 73 mm  |   |
| Da<br>max | 74 mm  | Mounting dimensions<br>If rotary shaft seals are used, the outside diameter of the sealing ring must be taken into consideration. |
| da<br>min | 58 mm  | Mounting dimensions<br>If rotary shaft seals are used, the outside diameter of the sealing ring must be taken into consideration. |
| H3        | 57 mm  |   |
| J         | 88 mm  |   |
| r1<br>min | 0,6 mm   |   |

|                  |  |
|------------------|--|
| r <sub>min</sub> | 0,3 mm   |
| m                | 1,85 kg Mass   |
| C <sub>a</sub>   | 105000 N Basic dynamic load rating, axial  |
| C <sub>0a</sub>  | 265000 N Basic static load rating, axial   |
| C <sub>r</sub>   | 27500 N Basic dynamic load rating, radial  |
| C <sub>0r</sub>  | 53000 N Basic static load rating, radial   |
| n <sub>G</sub>   | 4000 1/min Limiting speed for oil lubrication (valid only with adequate oil cooling)             |
| Öl               |  |
| n <sub>G</sub>   | 1250 1/min Limiting speed for grease lubrication   |
| Fett             |  |
| M <sub>RL</sub>  | 2,3 Nm Bearing frictional torque   |
| C <sub>aL</sub>  | 3500 N/µm Axial rigidity   |
| C <sub>kL</sub>  | 1300 Nm/mrad Tilting rigidity  |
| M <sub>m</sub>   | 10,4 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.   |
|                  | M8 Size of fixing screws to DIN 912-10.9   |
|                  | Tightening torque of fixing screws according to manufacturer's data.                             |
|                  | Screws not included in delivery.   |
|                  | ZMA35/70 Designation of recommended INA locknut  |
|                  | AM35 Designation of recommended INA locknut  |
| MA               | 100 Nm Tightening torque   |
|                  | Only valid in conjunction with INA precision locknuts  |
|                  | 27480 N Axial preload force  |
| DR               | 60X75X8 Rotary shaft seal to DIN 3760  |
|                  | To be ordered separately.  |
|                  | Locknuts, rotary shaft seal and fixing screws not included in delivery.                          |



