

ZARF55145-L-TV

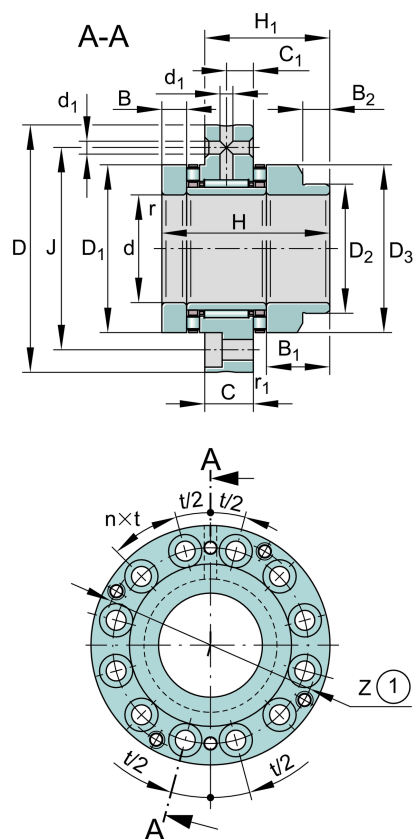
Needle roller/axial cylindrical roller bearing

Schaeffler ID:
0016832680000

Needle roller/axial cylindrical roller bearings ZARF...-L, double direction, for screw mounting, long shaft locating washer

Technical information

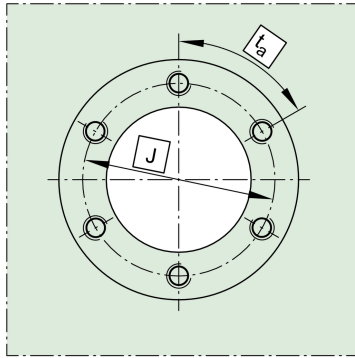
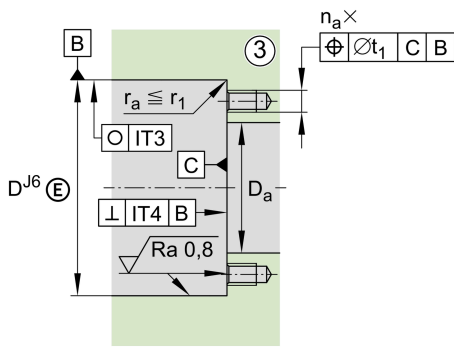
Main Dimensions & Performance Data



d	55 mm	Bore diameter
D	145 mm	Outside diameter
H	103 mm	Height
C_a	177.000 N	Basic dynamic load rating, axial
C_{0a}	500.000 N	Basic static load rating, axial
C_r	44.000 N	Basic dynamic load rating, radial
C_{0r}	98.000 N	Basic static load rating, radial
C_{ua}	46.500 N	Fatigue load limit, axial
C_{ur}	13.800 N	Fatigue load limit, radial
$n_{G\text{ Oil}}$	2.900 1/min	Limiting speed for oil lubrication
$n_{G\text{ Grease}}$	1.000 1/min	Limiting speed for grease lubrication
M_{RL}	4 Nm	Bearing friction torque
	4,519 kg	Weight

Mounting dimensions

$D_{a\text{ max}}$	101 mm	Maximum diameter of housing shoulder
$d_{a\text{ min}}$	78 mm	Minimum diameter shaft shoulder



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	100 mm	Rip diameter shaft washer
D_2	80 mm	Heeldiameter wave washer long
D_3	98 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 1
d_1	6 mm	Diameter lubrication hole
J	118 mm	Pitch circle diameter (holes)
n	12	Number (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}	4.900 N/μm	Rigidity axial
c_{kL}	3.600 Nm/mrad	Tilting stiffness
M_m	43 kg*cm ²	Mass moment of inertia
	1 μm	Axial runout
radial	ZMA55/98	Recommended INA precision locknut for radial locking (not included)
axial	AM55	Recommended INA precision locknut for axial locking (not included)
M_A	220 Nm	Tightening torque nut
	39.807 N	Required locknut force
	80X100X10	Rotary shaft seal to DIN 3760 (not included)
	M10	Size fixing screws DIN EN ISO 4762 10.9 (not included)
n_a	12	Number of screws
$n_a \times t_a$	30 °	Division (screwing holes)

