



FAG

51408

Axial deep groove ball bearing

Schaeffler ID:
0190069000000Axial deep groove ball bearing 514, single
direction, steel sheet metal cage

Technical information



Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	90 mm	Outside diameter
T	36 mm	Height
C_a	96,000 N	Basic dynamic load rating, axial
C_{0a}	170,000 N	Basic static load rating, axial
C_{ua}	7,700 N	Fatigue load limit, axial
n_G	3,250 1/min	Limiting speed
n_{gr}	7,600 1/min	Reference speed
	1.083 kg	Weight

Dimensions

r_{min}	1.1 mm	Minimum chamfer dimension
D_1	42 mm	Bore diameter housing washer
d_1	90 mm	Lip diameter shaft washer

Mounting dimensions

$d_{a min}$	70 mm	Minimum diameter shaft shoulder
$D_{a max}$	60 mm	Maximum diameter of housing shoulder
$r_{a max}$	1 mm	Maximum recess radius

Additional information

A	0.18	Minimum load factor
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Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	150 °C	Operating temperature max.