



FAG

23256-BEA-XL-K-MB1

Spherical Roller Bearing

Spherical roller bearing 232...-BEA-XL-K-MB1, symmetric 2 outer ribs with rib washer

X-life

Technical information



Your current product variant

Design	BEA	With lose center lip ring
Bore type	K	Tapered, taper 1:12
Cage	MB1	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication	Standard	

Main Dimensions & Performance Data

d	280 mm	Bore diameter
D	500 mm	Outside diameter
B	176 mm	Width
C_r	3.550.000 N	Basic dynamic load rating, radial
C_{0r}	5.200.000 N	Basic static load rating, radial
C_{ur}	395.000 N	Fatigue load limit, radial
n_G	1.280 1/min	Limiting speed
n_{gr}	630 1/min	Reference speed
m	142,9 kg	Weight



Mounting dimensions

$d_{a \min}$	300 mm	Minimum diameter shaft shoulder
$D_{a \max}$	480 mm	Maximum diameter of housing shoulder
$r_{a \max}$	4 mm	Maximum recess radius
$d_{a \max}$	329 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	299 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	11 mm	Minimum cavity width of the sleeve

Dimensions

r_{\min}	5 mm	Minimum chamfer dimension
D_1	425,4 mm	Bore diameter outer ring
d_s	12,5 mm	Diameter lubrication hole
n_s	23,5 mm	Width of lubricating groove

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.

Calculation factors

e	0,34	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	1,96	Dynamic axial load factor
Y_2	2,92	Dynamic axial load factor
Y_0	1,92	Static axial load factor

Additional information

H2356X	Adapter sleeve
AH2356G	Withdrawal sleeve



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment