

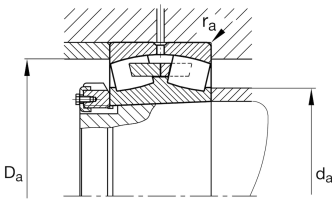
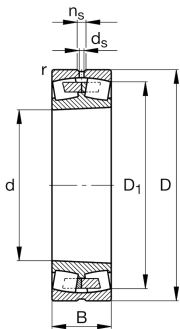
FAG

238/850-K-MB

Spherical Roller Bearing

Spherical roller bearing 238...-K-MB,
symmetric 3 ribs

Technical information



Your current product variant

Bore type	K	Tapered, taper 1:12
Cage	MB	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

Main Dimensions & Performance Data

d	850 mm	Bore diameter
D	1.030 mm	Outside diameter
B	136 mm	Width
C _r	3.500.000 N	Basic dynamic load rating, radial
C _{0r}	10.600.000 N	Basic static load rating, radial
C _{ur}	730.000 N	Fatigue load limit, radial
n _G	620 1/min	Limiting speed
n _{gr}	285 1/min	Reference speed
≈m	230 kg	Weight

Mounting dimensions

d _{a min}	868 mm	Minimum diameter shaft shoulder
D _{a max}	1.012 mm	Maximum diameter of housing shoulder
r _{a max}	4 mm	Maximum recess radius



Dimensions

r_{min}	5 mm	Minimum chamfer dimension
D_1	978,1 mm	Bore diameter outer ring
d_s	8 mm	Diameter lubrication hole
n_s	15 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,11	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	6,06	Dynamic axial load factor
Y_2	9,02	Dynamic axial load factor
Y_0	5,92	Static axial load factor

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