

**FAG****238/850-MB-C3**

Spherical Roller Bearing

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

Technical information

**Your current product variant**

Bore type	Z	Cylindrical
Cage	MB	Solid brass cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication	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	234 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