



**Bearing No. 2209 EKTN9**

D	85 mm
d	45 mm
B	23 mm
Bore	1.772 Inch   45 Millimeter
Noun	Bearing
UNSPSC	31171532
series:	2200
Category	Self Aligning Ball Bearings
Inventory	0.0
Size (mm)	85x45x23
Enclosure	Open
Width (mm)	23
bore type:	Tapered 1:12
Mass bearing	0.55 kg
Weight / LBS	1.213
maximum rpm:	10000 RPM
closure type:	Open
D <sub>1</sub>	73.2 mm
Inch - Metric	Metric
d <sub>1</sub>	55.32 mm
Cage Material	Polyamide
Product Group	B00152
bore diameter:	45 mm
overall width:	23 mm
Keyword String	Self Aligning
cage material:	Fiberglass Reinforced Nylon
fillet radius:	1.1 mm
Other Features	Allowable Misalignment

	2.5 Deg   High Capacity Design   1:12 Taper
Adapter Sleeve	H-309
Bearing number	2209 EKTN9
Limiting speed	10000 r/min
Mounting Method	Tapered Adapter
Rolling Element	Ball Bearing
finish/coating:	Uncoated
Reference speed	15000 r/min
Precision Class	ABEC 1   ISO P0
Long Description	45MM Bore; Tapered Adapter Mount; 85MM Outside Diameter; 23MM Inner Race Width; 23MM Outer Race Width; Open; Polyamide Cage; Double Row of Balls; ABEC 1   ISO P0; C0-Medium
Outer Race Width	0.906 Inch   23 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Outside Diameter	3.346 Inch   85 Millimeter
Inner Race Width	0.906 Inch   23 Millimeter
Manufacturer Name	SKF
outer ring width:	23 mm
outside diameter:	85 mm
Weight / Kilogram	0.548
precision rating:	Not Rated
Internal Clearance	C0-Medium
r <sub>a</sub> max.	1.1 mm
D <sub>a</sub> max.	78 mm
Bore Diameter (mm)	85

Outer Diameter (mm)	45
internal clearance:	C0
$r_{1,2}$ min.	1.1 mm
Calculation factor e	0.26
$D_a$ - max.	78 mm
$r_a$ - max.	1.1 mm
Minimum Buy Quantity	N/A
$D_1$ ?	73.2 mm
maximum misalignment:	2.5 °
static load capacity:	10.6 kN
$d_1$ ?	55.32 mm
Harmonized Tariff Code	8482.10.50.68
$r_{1,2}$ - min.	1.1 mm
dynamic load capacity:	32.5 kN
Calculation factor - e	0.26
Number of Rows of Balls	Double Row
Manufacturer Item Number	2209 EKTN9
Basic dynamic load rating C	32.5 kN
Basic dynamic load rating - C	32.5 kN
Fatigue load limit $P_u$	0.54 kN
Calculation factor $k_r$	0.045
Calculation factor $Y_0$	2.5
Calculation factor $Y_1$	2.4
Calculation factor $Y_2$	3.7
Calculation factor - $Y_2$	3.7
Calculation factor - $Y_0$	2.5
Calculation factor - $k_r$	0.045
Fatigue load limit - $P_u$	0.54 kN
Calculation factor - $Y_1$	2.4

Permissible angular misalignment ?	2.5 °
Basic static load rating $C_0$	10.6 kN
Basic static load rating - $C_0$	10.6 kN