



22209 E Bearing 2D drawings and 3D CAD models

## 22209 E SKF Spherical Roller Bearings

Bearing No. 22209 E

Size	85x45x23 mm
Bore Diameter	85 mm
Outer Diameter	45 mm
Width	23 mm
d	45 mm
D	85 mm
B	23 mm
d <sub>2</sub>	54.4 mm
D <sub>1</sub>	74.4 mm
b	5.5 mm
K	3 mm
r <sub>1,2</sub> - min.	1.1 mm
d <sub>a</sub> - min.	52 mm
D <sub>a</sub> - max.	78 mm
r <sub>a</sub> - max.	1 mm
Basic dynamic load rating - C	104 kN
Basic static load rating - C <sub>0</sub>	100 kN
Fatigue load limit - P <sub>u</sub>	10.8 kN
Reference speed	7500 r/min
Limiting speed	10000 r/min
Calculation factor - e	0.26
Calculation factor - Y <sub>1</sub>	2.6
Calculation factor - Y <sub>2</sub>	3.9
Calculation factor - Y <sub>0</sub>	2.5



Category	Spherical Roller Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.585
EAN	7316572048535
Product Group	B04311
Internal Clearance	C0-Medium
Mounting Method	Shaft Mount
Rolling Element	Spherical Roller Bearing
Bore Profile	Straight
Cage Material	Steel
Enclosure	Open
Number of Rows of Rollers	Double Row
Relubricatable	Yes
Withdrawal Sleeve	Not Applicable
Withdrawal Nut	Not Applicable
Inch - Metric	Metric
Long Description	45MM Straight Bore; 85MM Outside Diameter; 23MM Width; C0-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable
Category	Spherical Roller Bearing
UNSPSC	31171510
Harmonized Tariff Code	84823080
Noun	Bearing
Keyword String	Spherical
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Weight / LBS	1.288
Width	0.906 Inch   23 Millimeter

Outside Diameter	3.346 Inch   85 Millimeter
Adapter Part Number	Not Applicable Inch   Not Applicable Millimeter
Bore	1.772 Inch   45 Millimeter
bore diameter:	45 mm
maximum rpm:	10000 RPM
outside diameter:	85 mm
operating temperature range:	Maximum of +390 ° F
overall width:	23 mm
cage material:	Steel
bore type:	Straight
bearing material:	Steel
outer ring type:	Not Split
cage type:	Inner Ring Guided
internal clearance:	C0
precision rating:	Not Rated
closure type:	Open
finish/coating:	Uncoated
lubrication hole type:	Lubrication Groove & Hole
outer ring width:	23 mm
dynamic load capacity:	102 kN
fillet radius:	1 mm
static load capacity:	98 kN
series:	222
$d_2$	54.4 mm
$D_1$	74.4 mm
$r_{1,2}$ min.	1.1 mm
$d_a$ min.	52 mm
$D_a$ max.	78 mm
$r_a$ max.	1 mm
Basic dynamic load rating C	104 kN
Basic static load rating $C_0$	98 kN

Fatigue load limit $P_u$	10.8 kN
Calculation factor $e$	0.26
Calculation factor $Y_1$	2.6
Calculation factor $Y_2$	3.9
Calculation factor $Y_0$	2.5
Mass bearing	0.58 kg