



### Bearing No. 22205/20 E

Category	Spherical Roller Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.207
EAN	7316571722177
Product Group - BDI	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	25MM Straight Bore; 52MM Outside Diameter; 18MM Width; C0-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable
Category - BDI	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	0.456
Adapter Part Number	Not Applicable Inch   Not Applicable Millimeter
Outside Diameter	2.047 Inch   52 Millimeter
Width	0.709 Inch   18 Millimeter
Bore	0.984 Inch   25 Millimeter
Size	52x20x18 mm
Bore Diameter	52 mm
Outer Diameter	20 mm
Width	18 mm
d	20 mm
D	52 mm
B	18 mm
d <sub>2</sub>	31.3 mm
D <sub>1</sub>	44.2 mm
b	3.7 mm
K	2 mm
r <sub>1,2</sub> - min.	1 mm
d <sub>a</sub> - min.	25.6 mm
D <sub>a</sub> - max.	46.4 mm
r <sub>a</sub> - max.	1 mm
Basic dynamic load rating - C	49.9 kN
Basic static load rating - C <sub>0</sub>	44 kN
Fatigue load limit - P <sub>u</sub>	4.8 kN
Reference speed	13000 r/min

Limiting speed	17000 r/min
Calculation factor - e	0.35
Calculation factor - $Y_1$	1.9
Calculation factor - $Y_2$	2.9
Calculation factor - $Y_0$	1.8
bore diameter:	20 mm
maximum rpm:	17000 RPM
outside diameter:	52 mm
operating temperature range:	Maximum of +390 °F
overall width:	18 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:	18 mm
dynamic load capacity:	49 kN
fillet radius:	1 mm
static load capacity:	44 kN
series:	222
$d_2$ ?	31.3 mm
$D_1$ ?	44.2 mm
$r_{1,2}$ min.	1 mm
$d_a$ min.	25.6 mm
$D_a$ max.	46.4 mm

$r_a$ max.	1 mm
Basic dynamic load rating C	49.9 kN
Basic static load rating $C_0$	44 kN
Fatigue load limit $P_u$	4.75 kN
Calculation factor e	0.35
Calculation factor $Y_1$	1.9
Calculation factor $Y_2$	2.9
Calculation factor $Y_0$	1.8
Mass bearing	0.28 kg