



KIA Roller Industry Co.,Ltd

NTN 7005 angular contact ball bearings



Bearing No. 7005

Size	25x47x12 mm
Bore Diameter	25 mm
Outer Diameter	47 mm
Width	12 mm
d	25 mm
D	47 mm
B	12 mm
C	12 mm
Angle (°)	25 °
a	16,5 mm
r min.	0,6 mm
r1 min.	0,3 mm
da min.	29,5 mm
db min	29,5 mm
ra max.	0,6 mm
Weight	0,093 Kg
Basic dynamic load rating (C)	10,7 kN
Basic static load rating (C0)	6,85 kN
(Grease) Lubrication Speed	16 000 r/min
Contact angle	30 °
rs min	0.6 mm
r1s min	0.3 mm
Mass	0.09 kg
Dynamic load, C	10.7 kN
Static load, C0	6.85 kN
Fatigue limit load, Cu	0.31 kN

7005 Bearing 2D drawings and 3D CAD models



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Nlim (oil)	21,000 rpm
Nlim (grease)	16,000 rpm
Min operating temperature, Tmin	-20 ° C
Max operating temperature, Tmax	120 ° C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.54 Hz
Characteristic outer ring frequency, BPF0	5.51 Hz
Characteristic inner ring frequency, BRF1	7.49 Hz
da min	29.5 mm
Da max	42.5 mm
Db max	44.5 mm
r1a max	0.3 mm
ra max	0.6 mm
Category	Angular Contact Ball Bearings
Inventory	2.0
Manufacturer Name	NTN
Minimum Buy Quantity	N/A
Weight / Kilogram	0.089
Product Group	B00308
Enclosure	Open
Flush Ground	No
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 1 ISO P0
Maximum Capacity / Filling Slot	No
Snap Ring	No



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Cage Material	Steel
Contact Angle	30 Degree
Internal Clearance	C0-Medium
Number of Bearings	1 (Single)
Inch - Metric	Metric
Long Description	25MM Bore; 47MM Outside Diameter; 12MM Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1 ISO P0; No Filling Slot; No Snap Ring; C0-Medium; Steel Cage; 30 Degree; 1 (Single)
Category	Angular Contact Ball Bearing
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact
Manufacturer URL	http://www.ntnamerica.com
Manufacturer Item Number	7005
Outside Diameter	1.85 Inch 47 Millimeter
Width	0.472 Inch 12 Millimeter
Bore	0.984 Inch 25 Millimeter
bore diameter:	25 mm
radial static load capacity:	6850 N
outside diameter:	47 mm
operating temperature range:	-40 to 120 ° C
overall width:	12 mm
cage material:	Nylon
contact angle:	30 °
outer ring width:	12 mm
row type & fill slot:	Single-Row Non-Fill Slot



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maximum rpm:	21000 rpm
internal clearance:	C0
finish/coating:	Uncoated
bore type:	Round
precision rating:	ISO Class 0
closure type:	Open
fillet radius:	0.6 mm
snap ring included:	Without Snap Ring
series:	70
bearing material:	High Carbon Chrome Steel
weight:	0.089 kg
radial dynamic load capacity:	10700 N
manufacturer product page:	Click here