

NSK 025-5AC3 cylindrical roller bearings

NSK 025-5AC3 cylindrical roller bearings Engineering Calculator , 125x80x22 Size (mm) Manufacturing Service 125 Bore Diameter (mm) . Get Your Free.

Size (mm)	125x80x22
Bore Diameter (mm)	125
Outer Diameter (mm)	80
Width (mm)	22
d	80 mm
D	125 mm
B	22 mm
d1	95.83 mm
d2	93 mm
D1	109.17 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	35.1 mm
da – min.	86 mm
db – min.	86 mm
Da – max.	119 mm
Db – max.	120.8 mm
ra – max.	1 mm
rb – max.	0.6 mm
dn	98.5 mm
Basic dynamic load rating – C	32.5 kN
Basic static load rating – C0	26.5 kN

Fatigue load limit – Pu	1.1 kN
Limiting speed for grease lubrication	13700 r/min
Limiting speed for oil lubrication	21000 mm/min
Ball – Dw	11.112 mm
Ball – z	25
Gref	12 cm ³
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	280 N
Preload class B – GB	850 N
Preload class C – GC	1700 N
Calculation factor – f	1.1
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.03
Calculation factor – f2C	1.06
Calculation factor – fHC	1
Preload class A	178 N/micron
Preload class B	268 N/micron
Preload class C	352 N/micron
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270

Enclosure	Open
Precision Class	ABEC 7 ISO P4
Material – Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	25 Degree
Preload	None
Raceway Style	1 Rib Inner Ring and Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch – Metric	Metric
Other Features	Single Row Angular Contact High Speed E Design
Long Description	80MM Bore; 125MM Outside Diameter; 22MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Width	0.866 Inch 22 Millimeter
Bore	3.15 Inch 80 Millimeter
Outside Diameter	4.921 Inch 125 Millimeter
r1,2 min.	1.1 mm

r _{3,4} min.	0.6 mm
d _a min.	86 mm
d _b min.	86 mm
D _a max.	119 mm
D _b max.	120.8 mm
r _a max.	1 mm
r _b max.	0.6 mm
Basic dynamic load rating C	32.5 kN
Basic static load rating C ₀	26.5 kN
Fatigue load limit P _u	1.12 kN
Attainable speed for grease lubrication	13700 r/min
Attainable speed for oil-air lubrication	21000 r/min
Ball diameter D _w	11.112 mm
Number of balls z	25
Reference grease quantity G _{ref}	12 cm ³
Preload class A GA	280 N
Static axial stiffness, preload class A	178 N/μm
Preload class B GB	850 N
Static axial stiffness, preload class B	268 N/μm
Preload class C GC	1700 N
Static axial stiffness, preload class C	352 N/μm
Calculation factor f	1.1
Calculation factor f ₁	0.99
Calculation factor f _{2A}	1
Calculation factor f _{2B}	1.03

Calculation factor f _{2C}	1.06
Calculation factor f _{HC}	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y ₂	0.87
Calculation factor (single, tandem) Y ₀	0.38
Calculation factor (single, tandem) X ₂	0.41
Calculation factor (back-to-back, face-to-face) Y ₁	0.92
Calculation factor (back-to-back, face-to-face) Y ₂	1.41
Calculation factor (back-to-back, face-to-face) Y ₀	0.76
Calculation factor (back-to-back, face-to-face) X ₂	0.67
Mass bearing	0.86 kg