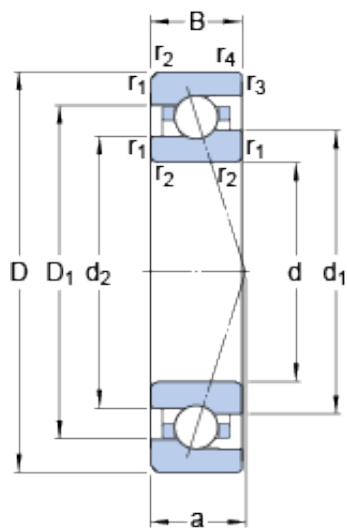




Bearing No. 7018 CE/P4A

D	140 mm
d	90 mm
B	24 mm
a	27.5 mm
Noun	Bearing
Bore	3.543 Inch 90 Millimeter
Width	0.945 Inch 24 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	28
Inventory	0.0
Enclosure	Open
Size (mm)	140x90x24
Width (mm)	24
Flush Ground	No
Mass bearing	1.2 kg
d ₁	108.33 mm
d ₂	105.5 mm
d _n	111 mm
Inch - Metric	Metric
D ₁	121.66 mm
Cage Material	Phenolic
Raceway Style	1 Rib Inner Ring and Outer Ring
d ₂	105.5 mm
Contact Angle	15 Degree
d ₁	108.33 mm

D_1	121.66 mm
d_n	111 mm
Product Group	B04270
Other Features	Single Row Angular Contact High Speed E Design
Keyword String	Ball Angular Contact
Bearing number	7018 CE/P4A
Rolling Element	Ball Bearing
G_{ref}	14 cm3
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
Preload class A	79 N/micron
Preload class B	125 N/micron
Preload class C	171 N/micron
Outside Diameter	5.512 Inch 140 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	90MM Bore; 140MM Outside Diameter; 24MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Inner Ring and
Manufacturer Name	SKF
Weight / Kilogram	0
Number of balls z	28
D_b max.	134.4 mm
d_b min.	97 mm
d_a min.	97 mm
r_a max.	1.5 mm
r_b max.	1 mm

Bore Diameter (mm)	140
D _a max.	133 mm
Number of Bearings	1 (Single)
Outer Diameter (mm)	90
r _{1,2} min.	1.5 mm
Calculation factor f	1.1
Minimum Buy Quantity	N/A
r _{3,4} min.	1 mm
r _b - max.	1 mm
Ball - D _w	11.112 mm
r _a - max.	1.5 mm
D _b - max.	134.4 mm
D _a - max.	133 mm
d _b - min.	97 mm
d _a - min.	97 mm
r _{3,4} - min.	1 mm
r _{1,2} - min.	1.5 mm
Calculation factor - f	1.1
Harmonized Tariff Code	8482.10.50.28
Ball diameter D _w	11.112 mm
Basic dynamic load rating C	35.8 kN
Preload class A G _A	190 N
Preload class B G _B	580 N
Basic dynamic load rating - C	35.8 kN
Preload class C G _C	1150 N
Preload class A - G _A	190 N
Preload class B - G _B	580 N
Preload class C - G _C	1150 N
Fatigue load limit P _u	1.27 kN
Calculation factor f ₀	9.6

Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor - f	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor - f_0	9.6
Limiting speed for oil lubrication	21000 mm/min
Fatigue load limit - P_u	1.3 kN
Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	13300 r/min
Basic static load rating C_0	32 kN
Static axial stiffness, preload class A	79 N/ μ m
Static axial stiffness, preload class B	125 N/ μ m
Static axial stiffness, preload class C	171 N/ μ m
Attainable speed for grease lubrication	13300 r/min
Attainable speed for oil-air lubrication	21000 r/min
Basic static load rating - C_0	32 kN
Reference grease quantity G_{ref}	14 cm ³