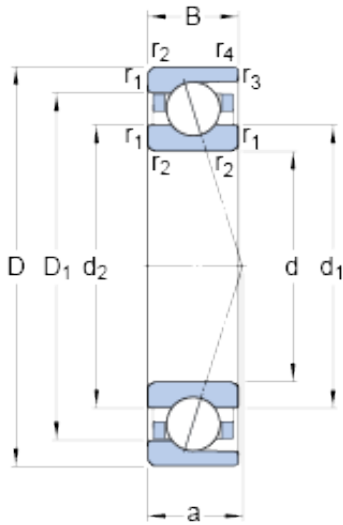




# SKF BEARING rolling stock(Europe) G.m...



240 mm x 360 mm x 56 mm SKF 7048  
ACD/P4A angular contact ball bearings

Bearing No. 7048 ACD/P4A

7048 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	360x240x56 mm
Bore Diameter	360 mm
Outer Diameter	240 mm
Width	56 mm
d	240 mm
D	360 mm
B	56 mm
d <sub>1</sub>	277 mm
d <sub>2</sub>	277 mm
D <sub>1</sub>	323 mm
r <sub>1,2</sub> - min.	3 mm
r <sub>3,4</sub> - min.	1.5 mm
a	98.3 mm
d <sub>a</sub> - min.	253 mm
d <sub>b</sub> - min.	253 mm
D <sub>a</sub> - max.	347 mm
D <sub>b</sub> - max.	354 mm
r <sub>a</sub> - max.	2.5 mm
r <sub>b</sub> - max.	1.5 mm
d <sub>n</sub>	287 mm
Basic dynamic load rating - C	325 kN
Basic static load rating - C <sub>0</sub>	465 kN
Fatigue load limit - P <sub>u</sub>	11.4 kN
Limiting speed for grease	3400 r/min



## SKF BEARING rolling stock(Europe) G.m...

Lubrication	
Limiting speed for oil lubrication	5000 mm/min
Ball - $D_w$	38.1 mm
Ball - $z$	22
$G_{ref}$	216 cm <sup>3</sup>
Calculation factor - $e$	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	2050 N
Preload class B - $G_B$	4100 N
Preload class C - $G_C$	8200 N
Preload class D - $G_D$	16400 N
Calculation factor - $f$	1.15
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.08
Calculation factor - $f_{HC}$	1
Preload class A	571 N/micron
Preload class B	743 N/micron
Preload class C	979 N/micron
Preload class D	1315 N/micron



## SKF BEARING rolling stock(Europe) G.m...

Category	Precision Ball Bearings
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 Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row   Angular Contact   High Capacity Basic Design
Long Description	240MM Bore; 360MM Outside Diameter; 56MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>



## SKF BEARING rolling stock(Europe) G.m...

Bore	9.449 Inch   240 Millimeter
Outside Diameter	14.173 Inch   360 Millimeter
Width	2.205 Inch   56 Millimeter
$d_1$	277 mm
$d_2$	277 mm
$D_1$	323 mm
$r_{1,2}$ min.	3 mm
$r_{3,4}$ min.	1.5 mm
$d_a$ min.	253 mm
$d_b$ min.	253 mm
$D_a$ max.	347 mm
$D_b$ max.	354 mm
$r_a$ max.	2.5 mm
$r_b$ max.	1.5 mm
$d_n$	287 mm
Basic dynamic load rating C	325 kN
Basic static load rating $C_0$	465 kN
Fatigue load limit $P_u$	11.4 kN
Attainable speed for grease lubrication	3400 r/min
Attainable speed for oil-air lubrication	5000 r/min
Ball diameter $D_w$	38.1 mm
Number of balls z	22
Reference grease quantity $G_{ref}$	216 cm <sup>3</sup>
Preload class A $G_A$	2050 N
Static axial stiffness, preload class A	571 N/ $\mu$ m
Preload class B $G_B$	4100 N
Static axial stiffness, preload class B	743 N/ $\mu$ m
Preload class C $G_C$	8200 N
Static axial stiffness, preload	979 N/ $\mu$ m



## SKF BEARING rolling stock(Europe) G.m...

class C	
Preload class D $G_D$	16400 N
Static axial stiffness, preload class D	1315 N/ $\mu$ m
Calculation factor $f$	1.15
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.08
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	17.1 kg