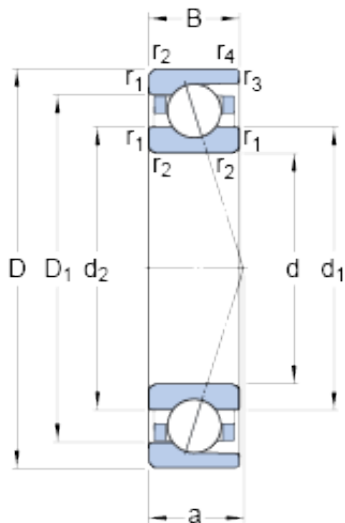




## BEARING-MALAYSIA SDN.BHD.

190 mm x 290 mm x 46 mm SKF 7038  
ACD/P4A Angular contact ball bearing

Bearing No. 7038 ACD/P4A



7038 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	290x190x46 mm
Bore Diameter	290 mm
Outer Diameter	190 mm
Width	46 mm
d	190 mm
D	290 mm
B	46 mm
d <sub>1</sub>	221.8 mm
d <sub>2</sub>	221.8 mm
D <sub>1</sub>	258.2 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1.1 mm
a	79.2 mm
d <sub>a</sub> - min.	201 mm
d <sub>b</sub> - min.	201 mm
D <sub>a</sub> - max.	279 mm
D <sub>b</sub> - max.	284 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	229.7 mm
Basic dynamic load rating - C	234 kN
Basic static load rating - C <sub>0</sub>	290 kN
Fatigue load limit - P <sub>u</sub>	8 kN
Limiting speed for grease	4300 r/min



## BEARING-MALAYSIA SDN.BHD.

Lubrication	
Limiting speed for oil lubrication	6300 mm/min
Ball - $D_w$	30.162 mm
Ball - $z$	22
$G_{ref}$	114 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 - $G_A$	1450 N
Preload class B - $G_B$	2900 N
Preload class C - $G_C$	5800 N
Preload class D - $G_D$	11600 N
Calculation factor - $f$	1.14
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	471 N/micron
Preload class B	613 N/micron
Preload class C	809 N/micron
Preload class D	1088 N/micron



## BEARING-MALAYSIA SDN.BHD.

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	190MM Bore; 290MM Outside Diameter; 46MM 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>



## BEARING-MALAYSIA SDN.BHD.

Bore	7.48 Inch   190 Millimeter
Width	1.811 Inch   46 Millimeter
Outside Diameter	11.417 Inch   290 Millimeter
$d_1$	221.8 mm
$d_2$	221.8 mm
$D_1$	258.2 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
$d_a$ min.	201 mm
$d_b$ min.	201 mm
$D_a$ max.	279 mm
$D_b$ max.	284 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	229.7 mm
Basic dynamic load rating C	234 kN
Basic static load rating $C_0$	290 kN
Fatigue load limit $P_u$	8 kN
Attainable speed for grease lubrication	4300 r/min
Attainable speed for oil-air lubrication	6300 r/min
Ball diameter $D_w$	30.162 mm
Number of balls z	22
Reference grease quantity $G_{ref}$	114 cm <sup>3</sup>
Preload class A $G_A$	1450 N
Static axial stiffness, preload class A	471 N/ $\mu$ m
Preload class B $G_B$	2900 N
Static axial stiffness, preload class B	613 N/ $\mu$ m
Preload class C $G_C$	5800 N
Static axial stiffness, preload	809 N/ $\mu$ m



## BEARING-MALAYSIA SDN.BHD.

class C	
Preload class D $G_D$	11600 N
Static axial stiffness, preload class D	1088 N/ $\mu$ m
Calculation factor $f$	1.14
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	9.51 kg