



# FML ske Manufacturing Co., Ltd



## 12 mm x 24 mm x 6 mm SKF 71901 CD/P4A angular contact ball bearings

Bearing No. 71901 CD/P4A

71901 CD/P4A Bearing 2D drawings and 3D CAD models

Size	24x12x6 mm
Bore Diameter	12 mm
Outer Diameter	24 mm
Width	6 mm
d	12 mm
D	24 mm
B	6 mm
d <sub>1</sub>	16 mm
d <sub>2</sub>	16 mm
D <sub>1</sub>	20 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	5.4 mm
d <sub>a</sub> - min.	14 mm
d <sub>b</sub> - min.	14 mm
D <sub>a</sub> - max.	22 mm
D <sub>b</sub> - max.	22.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
d <sub>n</sub>	16.8 mm
Basic dynamic load rating - C	2.6 kN
Basic static load rating - C <sub>0</sub>	1.2 kN
Fatigue load limit - P <sub>u</sub>	0.053 kN
Limiting speed for grease	63000 r/min



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Lubrication	
Limiting speed for oil lubrication	95000 mm/min
Ball - $D_w$	3.175 mm
Ball - $z$	13
$G_{ref}$	0.12 cm <sup>3</sup>
Calculation factor - $f_0$	9.8
Preload class A - $G_A$	10 N
Preload class B - $G_B$	20 N
Preload class C - $G_C$	40 N
Preload class D - $G_D$	80 N
Calculation factor - $f$	1.04
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.04
Calculation factor - $f_{2C}$	1.09
Calculation factor - $f_{2D}$	1.15
Calculation factor - $f_{HC}$	1
Preload class A	13 N/micron
Preload class B	17 N/micron
Preload class C	23 N/micron
Preload class D	33 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
EAN	7316570473766
Product Group	B04270
Enclosure	Open



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Precision Class	ABEC 7   ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 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	12MM Bore; 24MM Outside Diameter; 6MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Racew
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>
Bore	0.472 Inch   12 Millimeter
Width	0.236 Inch   6 Millimeter
Outside Diameter	0.945 Inch   24 Millimeter
d <sub>1</sub>	16 mm
d <sub>2</sub>	16 mm
D <sub>1</sub>	20 mm
r <sub>1,2</sub> min.	0.3 mm



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$r_{3,4}$ min.	0.2 mm
$d_a$ min.	14 mm
$d_b$ min.	14 mm
$D_a$ max.	22 mm
$D_b$ max.	22.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
$d_n$	16.8 mm
Basic dynamic load rating C	2.65 kN
Basic static load rating $C_0$	1.25 kN
Fatigue load limit $P_u$	0.053 kN
Attainable speed for grease lubrication	63000 r/min
Attainable speed for oil-air lubrication	95000 r/min
Ball diameter $D_w$	3.175 mm
Number of balls z	13
Reference grease quantity $G_{ref}$	0.12 cm <sup>3</sup>
Preload class A $G_A$	10 N
Static axial stiffness, preload class A	13 N/ $\mu$ m
Preload class B $G_B$	20 N
Static axial stiffness, preload class B	17 N/ $\mu$ m
Preload class C $G_C$	40 N
Static axial stiffness, preload class C	23 N/ $\mu$ m
Preload class D $G_D$	80 N
Static axial stiffness, preload class D	33 N/ $\mu$ m
Calculation factor f	1.04
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1



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Calculation factor $f_{2B}$	1.04
Calculation factor $f_{2C}$	1.09
Calculation factor $f_{2D}$	1.15
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	9.8
Mass bearing	0.01 kg