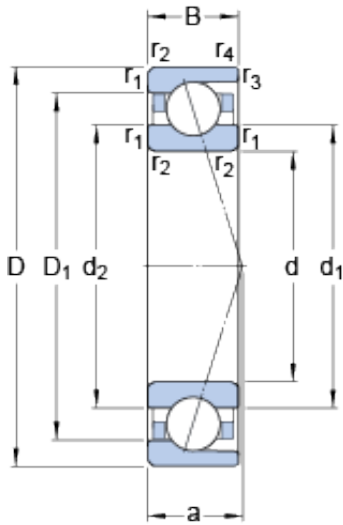




# GARLOCK BEARINGS LTD



71807 CD/HCP4 Bearing 2D drawings and 3D CAD models

## 71807 CD/HCP4 SKF High Speed Angular Contact Ball Bearings

Bearing No. 71807 CD/HCP4

Size	47x35x7 mm
Bore Diameter	47 mm
Outer Diameter	35 mm
Width	7 mm
d	35 mm
D	47 mm
B	7 mm
d <sub>1</sub>	39.1 mm
d <sub>2</sub>	39.1 mm
D <sub>1</sub>	43.1 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	9 mm
d <sub>a</sub> - min.	37 mm
d <sub>b</sub> - min.	37 mm
D <sub>a</sub> - max.	45 mm
D <sub>b</sub> - max.	46.2 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	39.5 mm
Basic dynamic load rating - C	4.6 kN
Basic static load rating - C <sub>0</sub>	4.3 kN
Fatigue load limit - P <sub>u</sub>	0.183 kN
Limiting speed for grease	34000 r/min



## GARLOCK BEARINGS LTD

Lubrication	
Limiting speed for oil lubrication	53000 mm/min
Ball - $D_w$	3.175 mm
Ball - $z$	26
$G_{ref}$	0.28 cm <sup>3</sup>
Calculation factor - $f_0$	17
Preload class A - $G_A$	25 N
Preload class B - $G_B$	75 N
Preload class C - $G_C$	150 N
Calculation factor - $f$	1.18
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.1
Calculation factor - $f_{2C}$	1.18
Calculation factor - $f_{HC}$	1.02
Preload class A	36 N/micron
Preload class B	62 N/micron
Preload class C	90 N/micron
$d_1$	39.1 mm
$d_2$	39.1 mm
$D_1$	43.1 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$d_a$ min.	37 mm
$d_b$ min.	37 mm
$D_a$ max.	45 mm
$D_b$ max.	46.2 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
$d_n$	39.5 mm



## GARLOCK BEARINGS LTD

Basic dynamic load rating C	4.62 kN
Basic static load rating $C_0$	4.3 kN
Fatigue load limit $P_u$	0.183 kN
Attainable speed for grease lubrication	34000 r/min
Attainable speed for oil-air lubrication	53000 r/min
Ball diameter $D_w$	3.175 mm
Number of balls z	26
Reference grease quantity $G_{ref}$	0.28 cm <sup>3</sup>
Preload class A $G_A$	25 N
Static axial stiffness, preload class A	36 N/ $\mu$ m
Preload class B $G_B$	75 N
Static axial stiffness, preload class B	62 N/ $\mu$ m
Preload class C $G_C$	150 N
Static axial stiffness, preload class C	90 N/ $\mu$ m
Calculation factor f	1.18
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.1
Calculation factor $f_{2C}$	1.18
Calculation factor $f_{HC}$	1.02
Calculation factor $f_0$	17
Mass bearing	0.026 kg