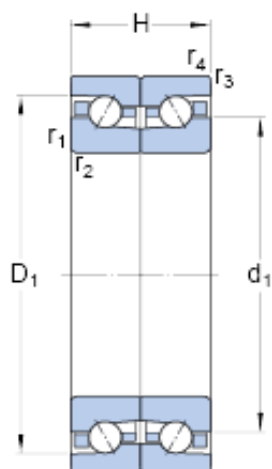


MSD MANUFACTURING CO.,LTD.



skf BTM 180 AM/HCP4CDB Angular contact thrust ball bearings, double direction, super-precision

Bearing No. BTM 180 AM/HCP4CDB

BTM 180 AM/HCP4CDB Bearing 2D drawings and 3D CAD models

Size	180x280x90 mm
Bore Diameter	180 mm
Outer Diameter	280 mm
Width	90 mm
d	180 mm
D	280 mm
H	90 mm
d ₁	226.5 mm
D ₁	254.7 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
d _a - min.	191 mm
D _a - max.	274 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	219.9 mm
Basic dynamic load rating - C	140 kN
Basic static load rating - C ₀	365 kN
Fatigue load limit - P _u	10.4 kN
Limiting speed for grease lubrication	4200 r/min
Limiting speed for oil lubrication	5000 mm/min
Preload class A	1600 N

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Preload class B	4800 N
Static Axial rigidity, Preload class A	663 N/micron
Static Axial rigidity, Preload class B	1002 N/micron
G_{ref}	160 cm
d_1	226.5 mm
D_1	254.7 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a min.	191 mm
D_a max.	274 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	219.9 mm
Basic dynamic load rating C	140 kN
Basic static load rating C_0	365 kN
Fatigue load limit P_u	10.4 kN
Attainable speed for grease lubrication	4200 r/min
Attainable speed for oil-air lubrication	5000 r/min
Static axial stiffnes for preload A	663 N/ μ m
Static axial stiffnes for preload B	1002 N/ μ m
Reference grease quantity G_{ref}	160 cm ³
Mass bearing	20.1 kg