



20 mm x 42 mm x 12 mm Calculation factor f2B  
SKF S7004 CE/HCP4BVG275 Double-Row  
Angular Contact Ball Bearings

Bearing No. S7004 CE/HCP4BVG275

S7004 CE/HCP4BVG275 Bearing 2D drawings and 3D CAD models

d	20 mm
D	42 mm
B	12 mm
d <sub>1</sub>	26.6 mm
d <sub>2</sub>	24.8 mm
D <sub>2</sub>	36.5 mm
r <sub>1,2</sub> min.	0.6 mm
r <sub>3,4</sub> min.	0.3 mm
a	10.2 mm
d <sub>a</sub> min.	22 mm
d <sub>a</sub> max.	26.2 mm
d <sub>b</sub> min.	22 mm
d <sub>b</sub> max.	24.4 mm
D <sub>a</sub> max.	40 mm
D <sub>b</sub> max.	39.6 mm
r <sub>a</sub> max.	0.6 mm
r <sub>b</sub> max.	0.3 mm
Basic dynamic load rating C	7.41 kN
Basic static load rating C <sub>0</sub>	3.35 kN
Fatigue load limit P <sub>u</sub>	0.143 kN
Attainable speed for grease lubrication	65000 r/min
Ball diameter D <sub>w</sub>	6.35 mm
Number of balls z	12
Preload class A G <sub>A</sub>	40 N



## Nice Precision Bearings (India) Pvt. Ltd

Static axial stiffness, preload class A	23 N/ $\mu$ m
Preload class B $G_B$	120 N
Static axial stiffness, preload class B	36 N/ $\mu$ m
Preload class C $G_C$	235 N
Static axial stiffness, preload class C	49 N/ $\mu$ m
Calculation factor f	1.04
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	7.2
Mass bearing	0.059 kg