

# AST 5216-2RS angular contact ball bearings

AST 5216-2RS angular contact ball bearings Product 28x12x8 Size (mm) Brochures , 12 Outer Diameter (mm) Manufacturing Service . Get Your Free.

Size (mm)	28x12x8
Bore Diameter (mm)	28
Outer Diameter (mm)	12
Width (mm)	8
d	12 mm
D	28 mm
B	8 mm
d1	17.5 mm
d2	16.5 mm
D1	22.45 mm
r1,2 – min.	0.3 mm
r3,4 – min.	0.15 mm
a	6.7 mm
da – min.	14 mm
db – min.	14 mm
Da – max.	26 mm
Db – max.	26.6 mm
ra – max.	0.3 mm
rb – max.	0.15 mm
dn	18.5 mm
Basic dynamic load rating – C	3.2 kN
Basic static load rating – C0	1.3 kN

Fatigue load limit – Pu	0.057 kN
Limiting speed for grease lubrication	80000 r/min
Limiting speed for oil lubrication	127000 mm/min
Ball – Dw	3.969 mm
Ball – z	12
Gref	0.31 cm <sup>3</sup>
Calculation factor – f <sub>0</sub>	7.3
Preload class A – GA	17 N
Preload class B – GB	53 N
Preload class C – GC	110 N
Calculation factor – f	1
Calculation factor – f <sub>2A</sub>	1
Calculation factor – f <sub>2B</sub>	1.03
Calculation factor – f <sub>2C</sub>	1.05
Calculation factor – f <sub>HC</sub>	1
Preload class A	13 N/micron
Preload class B	21 N/micron
Preload class C	30 N/micron
r <sub>1,2</sub> min.	0.3 mm
r <sub>3,4</sub> min.	0.15 mm
d <sub>a</sub> min.	14 mm
d <sub>b</sub> min.	14 mm
D <sub>a</sub> max.	26 mm
D <sub>b</sub> max.	26.6 mm
r <sub>a</sub> max.	0.3 mm
r <sub>b</sub> max.	0.15 mm
Basic dynamic load rating C	3.19 kN
Basic static load rating C <sub>0</sub>	1.34 kN
Fatigue load limit Pu	0.057 kN

Attainable speed for grease lubrication	80000 r/min
Attainable speed for oil-air lubrication	127000 r/min
Ball diameter $D_w$	3.969 mm
Number of balls $z$	12
Reference grease quantity $G_{ref}$	0.31 cm <sup>3</sup>
Preload class A $G_A$	17 N
Static axial stiffness, preload class A	13 N/ $\mu$ m
Preload class B $G_B$	53 N
Static axial stiffness, preload class B	21 N/ $\mu$ m
Preload class C $G_C$	110 N
Static axial stiffness, preload class C	30 N/ $\mu$ m
Calculation factor $f$	1.02
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
Calculation factor $f_0$	7.3
Mass bearing	0.021 kg