



# 7230 BGAM Angular contact ball bearings, single row

- Popular item

## Angular contact ball bearings, single row

### Bearing data

#### Tolerances,

Normal (metric), P6, P5, Normal (inch),

#### Internal clearance,

CA+CB+CC, G,

#### Preload,

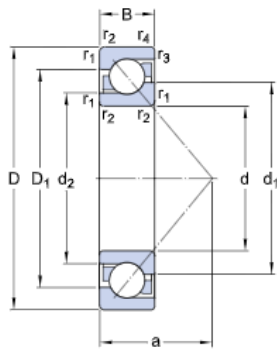
GA+GB+GC

### Bearing interfaces

#### Seat tolerances for standard conditions,

#### Tolerances and resultant fit

## Technical specification



### DIMENSIONS

d	150 mm	Bore diameter
D	270 mm	Outside diameter
B	45 mm	Width
d1	≈ 197.2 mm	Shoulder diameter inner ring (large side face)
d2	≈ 175.6 mm	Shoulder diameter inner ring (small side face)
D1	≈ 225.95 mm	Shoulder diameter outer ring (large side face)
a	111 mm	Distance pressure point
r <sub>1,2</sub>	min. 3 mm	Chamfer dimension
r <sub>3,4</sub>	min. 1.1 mm	Chamfer dimension outer ring small side face

### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 164 mm	Abutment diameter shaft
D <sub>c</sub>	max. 256 mm	Abutment diameter housing
D <sub>i</sub>	max. 263 mm	Abutment diameter housing
r <sub>a</sub>	max. 2.5 mm	Fillet radius
r <sub>b</sub>	max. 1 mm	Fillet radius



## CALCULATION DATA

C	216 kN	Basic dynamic load rating
C <sub>0</sub>	240 kN	Basic static load rating
P <sub>u</sub>	6.95 kN	Fatigue load limit
	2 800 r/min	Reference speed
	3 200 r/min	Limiting speed
A	1.01	Calculation factor
k <sub>r</sub>	0.08	Calculation factor
e	1.14	Calculation factor

## SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

X	0.35	Calculation factor
Y <sub>0</sub>	0.26	Calculation factor
Y <sub>2</sub>	0.57	Calculation factor

## BEARING PAIR ARRANGED BACK-TO-BACK OR FACE-TO-FACE

X	0.57	Calculation factor
Y <sub>0</sub>	0.52	Calculation factor
Y <sub>1</sub>	0.55	Calculation factor
Y <sub>2</sub>	0.93	Calculation factor