

# 6238 M Deep groove ball bearings

- Popular item

## Deep groove ball bearings

### Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

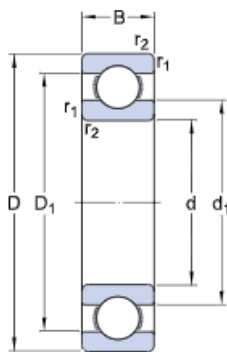
Matched bearing pairs, Stainless steel  
 $d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

## Technical specification

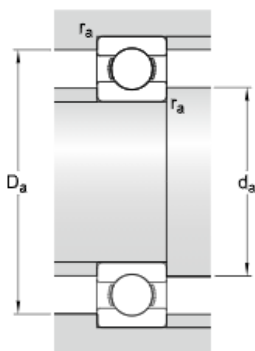


### DIMENSIONS

d	190 mm	Bore diameter
D	340 mm	Outside diameter
B	55 mm	Width
$d_1$	≈ 239.5 mm	Shoulder diameter
$D_1$	≈ 289.75 mm	Shoulder diameter
$r_{1,2}$	min. 4 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

$d_\xi$	min. 207 mm	Diameter of shaft abutment
$D_i$	max. 323 mm	Diameter of housing abutment
$r_a$	max. 3 mm	Radius of shaft or housing fillet



## CALCULATION DATA

C	255 kN	Basic dynamic load rating
C <sub>0</sub>	280 kN	Basic static load rating
P <sub>u</sub>	7.35 kN	Fatigue load limit
	3 800 r/min	Reference speed
	3 400 r/min	Limiting speed
k <sub>r</sub>	0.025	Minimum load factor
f <sub>0</sub>	15	Calculation factor

## MASS

	21.7 kg	Mass bearing
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## TOLERANCE CLASS

Normal	Dimensional tolerances
Normal	Radial run-out