

# 2318 SKF 190x90x64mm Width 64mm Self aligning ball bearings

Bearing number	2318
Size (mm)	190x90x64
Brand	SKF
Bore Diameter (mm)	190
Outer Diameter (mm)	90
Width (mm)	64
d	90 mm
D	190 mm
B	64 mm
d <sub>1</sub>	121 mm
D <sub>1</sub>	162.2 mm
r <sub>1,2</sub> – min.	3 mm
d <sub>a</sub> – min.	104 mm
D <sub>a</sub> – max.	176 mm
r <sub>a</sub> – max.	3 mm
Basic dynamic load rating – C	151 kN
Basic static load rating – C <sub>0</sub>	57 kN
Fatigue load limit – P <sub>u</sub>	2.5 kN
Reference speed	6300 r/min
Limiting speed	4500 r/min
Calculation factor – k <sub>r</sub>	0.05
Calculation factor – e	0.37

Calculation factor – $Y_0$	1.8
Calculation factor – $Y_1$	1.7
Calculation factor – $Y_2$	2.6
$d_1 \approx$	121 mm
$D_1 \approx$	162.2 mm
$r_{1,2} \text{ min.}$	3 mm
$d_a \text{ min.}$	104 mm
$D_a \text{ max.}$	176 mm
$r_a \text{ max.}$	3 mm
Basic dynamic load rating C	151 kN
Basic static load rating $C_0$	57 kN
Fatigue load limit $P_u$	2.5 kN
Permissible angular misalignment $\alpha$	3 °
Calculation factor $k_r$	0.05
Calculation factor e	0.37
Calculation factor $Y_0$	1.8
Calculation factor $Y_1$	1.7
Calculation factor $Y_2$	2.6
Mass bearing	8.45 kg