

# BS2-2318-2RS5/VT143 SKF Calculation factor – Y0 2 190x90x73mm Spherical roller bearings

Bearing number	BS2-2318-2RS5/VT143
Size (mm)	190x90x73
Brand	SKF
Bore Diameter (mm)	190
Outer Diameter (mm)	90
Width (mm)	73
d	90 mm
D	190 mm
B	73 mm
d <sub>2</sub>	109 mm
D <sub>1</sub>	165 mm
b	11.1 mm
K	6 mm
r <sub>1,2</sub> – min.	3 mm
d <sub>a</sub> – min.	104 mm
d <sub>a</sub> – max.	109 mm
D <sub>a</sub> – max.	176 mm
r <sub>a</sub> – max.	2.5 mm
Basic dynamic load rating – C	637 kN
Basic static load rating – C <sub>0</sub>	695 kN
Fatigue load limit – P <sub>u</sub>	67 kN

Limiting speed	1700 r/min
Calculation factor – e	0.33
Calculation factor – $Y_1$	2
Calculation factor – $Y_2$	3
Calculation factor – $Y_0$	2
$d_2 \approx$	109 mm
$D_1 \approx$	165 mm
$r_{1,2}$ min.	3 mm
$d_a$ min.	104 mm
$d_a$ max.	109 mm
$D_a$ max.	176 mm
$r_a$ max.	2.5 mm
Basic dynamic load rating C	637 kN
Basic static load rating $C_0$	695 kN
Fatigue load limit $P_u$	67 kN
Calculation factor e	0.33
Calculation factor $Y_1$	2
Calculation factor $Y_2$	3
Calculation factor $Y_0$	2
Mass bearing	9.8 kg