

BS2-2220-2RS5K/VT143 SKF

180x100x55mm Basic static load rating C0 490 kN

Spherical roller bearings

Bearing number	BS2-2220-2RS5K/VT143
Size (mm)	180x100x55
Brand	SKF
Bore Diameter (mm)	180
Outer Diameter (mm)	100
Width (mm)	55
d	100 mm
D	180 mm
B	55 mm
d ₂	114 mm
D ₁	163 mm
b	8.3 mm
K	4.5 mm
r _{1,2} – min.	2.1 mm
d _a – min.	108 mm
d _a – max.	114 mm
D _a – max.	168 mm
r _a – max.	2 mm
Basic dynamic load rating – C	433 kN
Basic static load rating – C ₀	490 kN
Fatigue load limit – P _u	49 kN

Limiting speed	1600 r/min
Calculation factor – e	0.24
Calculation factor – Y_1	2.8
Calculation factor – Y_2	4.2
Calculation factor – Y_0	2.8
$d_2 \approx$	114 mm
$D_1 \approx$	163 mm
$r_{1,2} \text{ min.}$	2.1 mm
$D_a \text{ max.}$	168 mm
$r_a \text{ max.}$	2 mm
Basic dynamic load rating C	433 kN
Basic static load rating C_0	490 kN
Fatigue load limit P_u	49 kN
Calculation factor e	0.24
Calculation factor Y_1	2.8
Calculation factor Y_2	4.2
Calculation factor Y_0	2.8
Mass bearing	5.5 kg
Recommended lock nut tightening angle α	150 °