

# BS2-2311-2RS/VT143 SKF

## Calculation factor – Y2 2.9

### 120x55x49mm Spherical roller bearings

Bearing number	BS2-2311-2RS/VT143
Size (mm)	120x55x49
Brand	SKF
Bore Diameter (mm)	120
Outer Diameter (mm)	55
Width (mm)	49
d	55 mm
D	120 mm
B	49 mm
d <sub>2</sub>	67.5 mm
D <sub>1</sub>	107 mm
b	6 mm
K	3 mm
r <sub>1,2</sub> – min.	2 mm
d <sub>a</sub> – min.	66 mm
d <sub>a</sub> – max.	67.5 mm
D <sub>a</sub> – max.	109 mm
r <sub>a</sub> – max.	2 mm
Basic dynamic load rating – C	280 kN
Basic static load rating – C <sub>0</sub>	280 kN
Fatigue load limit – P <sub>u</sub>	30 kN

Limiting speed	2800 r/min
Calculation factor – e	0.35
Calculation factor – $Y_1$	1.9
Calculation factor – $Y_2$	2.9
Calculation factor – $Y_0$	1.8
$d_2 \approx$	67.5 mm
$D_1 \approx$	107 mm
$r_{1,2}$ min.	2 mm
$d_a$ min.	66 mm
$d_a$ max.	67.5 mm
$D_a$ max.	109 mm
$r_a$ max.	2 mm
Basic dynamic load rating C	280 kN
Basic static load rating $C_0$	280 kN
Fatigue load limit $P_u$	30 kN
Calculation factor e	0.35
Calculation factor $Y_1$	1.9
Calculation factor $Y_2$	2.9
Calculation factor $Y_0$	1.8
Mass bearing	2.8 kg