

# BS2-2310-2RS/VT143 SKF

## Calculation factor – Y2 2.7

### 110x50x45mm Spherical roller bearings

Bearing number	BS2-2310-2RS/VT143
Size (mm)	110x50x45
Brand	SKF
Bore Diameter (mm)	110
Outer Diameter (mm)	50
Width (mm)	45
d	50 mm
D	110 mm
B	45 mm
d <sub>2</sub>	61.5 mm
D <sub>1</sub>	96.8 mm
b	6 mm
K	3 mm
r <sub>1,2</sub> – min.	2 mm
d <sub>a</sub> – min.	61 mm
d <sub>a</sub> – max.	61.5 mm
D <sub>a</sub> – max.	99 mm
r <sub>a</sub> – max.	2 mm
Basic dynamic load rating – C	228 kN
Basic static load rating – C <sub>0</sub>	216 kN
Fatigue load limit – P <sub>u</sub>	23.2 kN

Limiting speed	3000 r/min
Calculation factor – e	0.37
Calculation factor – $Y_1$	1.8
Calculation factor – $Y_2$	2.7
Calculation factor – $Y_0$	1.8
$d_2 \approx$	61.5 mm
$D_1 \approx$	96.8 mm
$r_{1,2}$ min.	2 mm
$d_a$ min.	61 mm
$d_a$ max.	61.5 mm
$D_a$ max.	99 mm
$r_a$ max.	2 mm
Basic dynamic load rating C	228 kN
Basic static load rating $C_0$	224 kN
Fatigue load limit $P_u$	24 kN
Calculation factor e	0.37
Calculation factor $Y_1$	1.8
Calculation factor $Y_2$	2.7
Calculation factor $Y_0$	1.8
Mass bearing	2.1 kg