

# 24120-2RS5/VT143 SKF

## Calculation factor Y2 2.9

### 165x100x65mm Spherical roller bearings

Bearing number	24120-2RS5/VT143
Size (mm)	165x100x65
Brand	SKF
Bore Diameter (mm)	165
Outer Diameter (mm)	100
Width (mm)	65
d	100 mm
D	165 mm
B	65 mm
d <sub>2</sub>	110 mm
D <sub>1</sub>	147 mm
b	4.4 mm
K	2 mm
r <sub>1,2</sub> – min.	2 mm
d <sub>a</sub> – min.	110 mm
d <sub>a</sub> – max.	110 mm
D <sub>a</sub> – max.	154 mm
r <sub>a</sub> – max.	2 mm
Basic dynamic load rating – C	470 kN
Basic static load rating – C <sub>0</sub>	640 kN
Fatigue load limit – P <sub>u</sub>	68 kN

Limiting speed	1700 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
$d_2 \approx$	110 mm
$D_1 \approx$	147 mm
$r_{1,2}$ min.	2 mm
$d_a$ min.	110 mm
$d_a$ max.	110 mm
$D_a$ max.	154 mm
$r_a$ max.	2 mm
Basic dynamic load rating C	470 kN
Basic static load rating $C_0$	640 kN
Fatigue load limit $P_u$	68 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	5.65 kg