

# Timken EE291201/291750-B tapered roller bearings

Timken EE291201/291750-B tapered roller bearings Engineering Calculator , Manufacturing Service . 120 mm d Get Your Free.

d	120 mm
D	165 mm
B	22 mm
d1	134.3 mm
D1	150.65 mm
D2	157.34 mm
a	30 mm
Contact angle $\alpha$	15 °
rs min	0.6 mm
r1s min	0.6 mm
f $\theta$	16.6
Precision class	P4
Mass	1.18 kg
Dynamic load, C	67.3 kN
Static load, C $\theta$	78.8 kN
Fatigue limit load, C $u$	3.5 kN
Nlim (oil)	12,500 rpm
Nlim (grease)	8,100 rpm
Axial displacement K Factor	0.84
Preload level	7
Preload value	0.34 kN
Axial rigidity	120 N/ $\mu$ m
Radial rigidity	710 N/ $\mu$ m

Min operating temperature, $T_{min}$	-30 °C
Max operating temperature, $T_{max}$	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.47 Hz
Characteristic outer ring frequency, BPF0	12.26 Hz
Characteristic inner ring frequency, BRFI	14.74 Hz
$d_a$ min	124.5 mm
$d_b$ min	124.5 mm
$D_a$ max	160.5 mm
$D_b$ max	160.5 mm
$r_{1a}$ max	0.6 mm
$r_a$ max	0.6 mm
D6	138.5 mm