

# Toyana FL605 deep groove ball bearings

Toyana FL605 deep groove ball bearings Engineering Calculator  
25x47x12 Size (mm) , 25 Bore Diameter (mm) Manufacturing  
Service . Get Your Free. 47 Outer Diameter (mm)

Size (mm)	25x47x12
Bore Diameter (mm)	25
Outer Diameter (mm)	47
Width (mm)	12
d	25 mm
D	47 mm
B	12 mm
C	12 mm
Angle ( $\alpha$ )	20 °
d1	32.2 mm
d2	30.25 mm
D1	42.65 mm
D2	44.25 mm
a	14 mm
Contact angle $\alpha$	25 °
rs min	0.6 mm
r1s min	0.3 mm
f0	7.83
Precision class	P4S
Mass	0.08 kg
Dynamic load, C	7.1 kN
Static load, C0	3.7 kN

Fatigue limit load, Cu	0.23 kN
Nlim (grease)	38,000 rpm
Axial displacement K Factor	0.84
Preload level	7
Preload value	0.06 kN
Axial rigidity	65 N/ $\mu$ m
Radial rigidity	144 N/ $\mu$ m
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.32 Hz
Characteristic outer ring frequency, BPF0	7.3 Hz
Characteristic inner ring frequency, BRFI	9.7 Hz
da min	29.5 mm
db min	29.5 mm
Da max	42.5 mm
Db max	42.5 mm
r1a max	0.3 mm
ra max	0.6 mm
D6	34.2 mm