



**Bearing No. 71803 ACD/HCP4**

a	7.5 mm
d	17 mm
D	26 mm
B	5 mm
C	5 mm
dh	20,4 mm
D2	- mm
d1	20,1 mm
d2	20,1 mm
D1	23 mm
Db max	25,2 mm
db min	19 mm
Weight	0,009 Kg
rb max.	0,15 mm
ra max.	0,3 mm
Da max.	24 mm
r4 min.	0,15 mm
da min.	19 mm
r3 min.	0,15 mm
r2 min.	0,3 mm
r1 min.	0,3 mm
Size (mm)	17x26x5
Width (mm)	5
Mass bearing	0.009 kg
d <sub>1</sub>	20.1 mm
d <sub>n</sub>	20.4 mm
D <sub>1</sub>	23 mm
d <sub>2</sub>	20.1 mm
Bearing number	71803 ACD/HCP4
Number of balls z	18

$d_a$ min.	19 mm
$d_b$ min.	19 mm
$D_a$ max.	24 mm
$D_b$ max.	25.2 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
Bore Diameter (mm)	17
Outer Diameter (mm)	26
Calculation factor e	0.68
Calculation factor f	1.1
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
(Oil) Lubrication Speed	90 000 r/min
Fatigue load limit (Pu)	0,064
(Grease) Lubrication Speed	60 000 r/min
Ball diameter $D_w$	2.381 mm
Basic dynamic load rating C	2.21 kN
Basic dynamic load rating (C)	2,21 kN
Preload class A $G_A$	20 N
Preload class B $G_B$	60 N
Preload class C $G_C$	120 N
Basic static load rating (C0)	1,53 kN
Calculation factor $f_1$	0.97
Fatigue load limit $P_u$	0.064 kN
Calculation factor $f_{HC}$	1.02
Calculation factor $f_{2C}$	1.17
Calculation factor $f_{2B}$	1.09
Calculation factor $f_{2A}$	1
Basic static load rating $C_0$	1.53 kN

Static axial stiffness, preload class C	100 N/ $\mu$ m
Static axial stiffness, preload class B	74 N/ $\mu$ m
Static axial stiffness, preload class A	47 N/ $\mu$ m
Attainable speed for grease lubrication	60000 r/min
Attainable speed for oil-air lubrication	90000 r/min
Reference grease quantity $G_{ref}$	0.09 cm <sup>3</sup>
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67