

## ZKLF ZKLN Double Direction Axial Angular Contact Ball Bearings

### ZKLF Axial angular contact ball bearings-ZKLF90190-2Z



Designation	<b>ZKLF90190-2Z</b>
Mass $m = \text{kg}$	8.7
Dimensions	
d -0,005	<b>90</b>
D -0,01	<b>190</b>
B -0,25	55
d1	120
r min.	0.6
r1 min.	0.6
J	165
d2	11
b	3
l	45
Pitch $n \times t$	$8 \times 45^\circ$
Mounting dimensions	
Da max.	138
da min.	116
t1	0.2
Fixing screws	DIN EN ISO 4762 10.9
Size	M10
$n \times t_a$	$8 \times 45^\circ$
Basic load ratings axial	
dyn. Ca N	149000
stat. C0a N	395000
Fatigue limit load $Cu$	21300
N	
Limiting speed $nG$	3500
grease min-1	
Thermally safe	2300
operating speed $nP$	
min-1	
Bearing frictional torque	2.3
MR Nm	
Rigidity axial caL N/ $\mu\text{m}$	1700
Tilting rigidity ckL	4400
Mass moment of inertia	59.9
Mm	
Axial runout $\mu\text{m}$	3
Recommended INA precision locknut	
For radial locking	ZMA90/130
For axial locking	AM90
Tightening torque MA	200
Nm	
Required locknut force	22731
axial N	