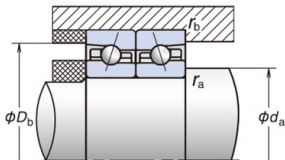
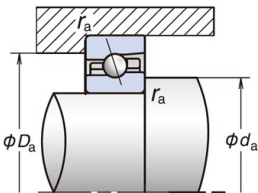
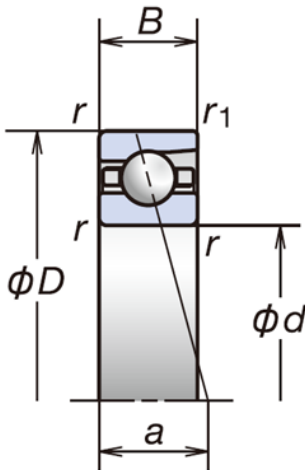




75BER10H

ROBUST Series Ultra High-Speed Angular Contact Ball Bearings



Parts Number

75BER10HTV1VSUELP3

Boundary Dimensions

	BER: 25°		Bearing Type
d	75	mm	Bore diameter
D	115	mm	Outside diameter
B	20	mm	Width
BN	4.0	mm	
SN	12	mm	
SB	1.4	mm	
r(min.)	1.1	mm	Chamfer Dimension
r1(min.)	0.6	mm	Chamfer Dimension

Basic Load Ratings

Cr	27.2	kN	Basic Dynamic Load Rating
C0r	19.0	kN	Basic Static Load Rating

Speeds

Grease	16900	min-1	Limiting Speed
Oil (Oil-air)	26400	min-1	Limiting Speed

Dimensions

	25°		Contact Angle
a	31.9	mm	Effective Load Center

Abutment and Fillet Dimensions

da(min.)	82	mm	Diameter of Shaft Abutment
Da(max.)	108	mm	Diameter of Housing Abutment
Db(max.)	110	mm	Diameter of Housing Abutment
ra(max.)	1	mm	Radius of Shaft or Housing Fillet
rb(max.)	0.6	mm	Radius of Shaft or Housing Fillet

Performance

Pa	23.7	kN	Permissible Axial Load
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PRODUCT DATASHEET

Datasheet creation date: 2025/06/02 10:15 (UTC)



Table A		EL	L	M	H
	15°	6.5	6.0	5.0	4.5
	25°	2			
	30°	1.4			

Table B	DBD	DBB
Preload factor	1.36	2
Axial rigidity	1.48	2
Radial rigidity	1.54	2

Calculation of radial rigidity
Multiply axial rigidity by the appropriate factor in Table A.

Calculation of preload and axial rigidity for combined bearings
Multiply by the appropriate factor in Table B. For radial rigidity, multiply the value from Table A with the appropriate factor in Table B.

Preload,Rigidity(DB and DF arrangement)

	Preload	Axial Rigidity	Measured axial clearance
EL	49N	103N/μm	0μm
L	579N	238N/μm	-12μm
M	1199N	311N/μm	-21μm

Additional information

2.7	g/brg	Recommended Grease Quantities
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Mass

0.638	kg	Mass(approx.)
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