



## Technical information



### Your current product variant

Design variant	B	B
Sealing	Without	Not sealed
Cage	TVP	Solid cage made of glass-fiber reinforced polyamid PA66
Tolerance class	P5	Class 5 (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Bearing with matched conditions for fitting in pairs	UH	Bearing set with high preload
Lubricant	Without	Bearing not greased

### Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
$C_r$	40.000 N	Basic dynamic load rating, radial
$C_{0r}$	27.000 N	Basic static load rating, radial
$C_{ur}$	1.870 N	Fatigue load limit, radial
$n_G$	11.000 1/min	Limiting speed
$n_{gr}$	8.000 1/min	Reference speed
$\approx m$	0,425 kg	Weight



### Mounting dimensions

$d_{a \min}$	52 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	78 mm	Maximum diameter of housing shoulder
$D_{b \max}$	80,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	0,6 mm	Maximum fillet radius of housing

### Dimensions

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
$D_1$	69,78 mm	Shoulder diameter on outer ring wide side face
$d_1$	61,19 mm	Shoulder diameter on inner ring wide side face
$a$	36,8 mm	Distance between the apexes of the pressure cones
$\alpha$	40 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.






### Additional information

$V_{\max}$	-20 $\mu\text{m}$	Preload per set max.
Tol (+)	6 $\mu\text{m}$	Tolerance for axial clearance or preload per set
$F_{V \max}$	1.662 N	Preload force



### Characteristics

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-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed