

SKF Four point contact bearing Series: QJ3

Angular contact ball bearings have raceways in the inner and outer rings that are displaced relative to each other in the direction of the bearing axis. This means that they are designed to accommodate combined loads, i.e. simultaneously acting radial and axial loads. The axial load carrying capacity of angular contact ball bearings increases with increasing contact angle. The contact angle is defined as the angle between the line joining the points of contact of the ball and the raceways in the radial plane, along which the load is transmitted from one raceway to another, and a line perpendicular to the bearing axis. Angular contact ball bearings are manufactured in a wide variety of designs and sizes. The most commonly used designs are:

- single row angular contact ball bearings
- double row angular contact ball bearings
- four-point contact ball bearings

Four-point contact ball bearings

Four-point contact ball bearings are radial single row angular contact ball bearings with raceways that are designed to support axial loads acting in both directions. For a given axial load, a limited radial load can be supported. These bearings take up considerably less axial space than double row bearings. The inner ring is split. This enables a large number of balls to be incorporated in the bearing, giving the bearing its high load carrying capacity. The bearings are separable, i.e. the outer ring with ball and cage assembly can be mounted separately from the two inner ring halves. The bearings are available in a standard design and with two locating slots in the outer ring.

Characteristics

Series: QJ3

With sealing: No

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Contact angle °	Cage	Article
QJ 303 LA/P63	17	47	14	35	Steel	24004176
QJ 304 N2MA/C2L	20	52	15	35	Brass	23769253
QJ 304 MA	20	52	15	35	Brass	23769252
QJ 304 N2PHAS/C2L	20	52	15	35	Plastic	24004178
QJ 304 LA/P63	20	52	15	35	Steel	24004177
QJ 305 MA/C2L	25	62	17	35	Brass	24004179
QJ 306 N2MA/C2L	30	72	19	35	Brass	24004181
QJ 306 MA	30	72	19	35	Brass	23769254
QJ 306 LA/P63	30	72	19	35	Steel	24004180
QJ 307 N2MA/C2L	35	80	21	35	Brass	24004184
QJ 307 MA	35	80	21	35	Brass	23769255
QJ 307 LA/P63	35	80	21	35	Steel	24004183
QJ 308 MA/C3	40	90	23	35	Brass	24004186
QJ 308 MA	40	90	23	35	Brass	23769256
QJ 308 N2MA/C2L	40	90	23	35	Brass	24004187
QJ 308 LA/P63	40	90	23	35	Steel	13530183
QJ 309 MA	45	100	25	35	Brass	23769257
QJ 309 MA/C3	45	100	25	35	Brass	23769259
QJ 309 MA/C2L	45	100	25	35	Brass	23769258
QJ 309 N2MA/C2L	45	100	25	35	Brass	24004188
QJ 309 MA/W64	45	100	25	35	Brass	13200702
QJ 309 PHAS	45	100	25	35	Plastic	13530184
QJ 310 MA	50	110	27	35	Brass	23769260
QJ 310 MA/C2L	50	110	27	35	Brass	24004192
QJ 310 PHAS/C3	50	110	27	35	Plastic	24004193
QJ 310 LA/P63	50	110	27	35	Steel	24004191

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Contact angle °	Cage	Article
QJ 311 N2MA/C2L	55	120	29	35	Brass	23769262
QJ 311 N2MA/C3	55	120	29	35	Brass	23769263
QJ 311 MA	55	120	29	35	Brass	23769261
QJ 312 MA/C3	60	130	31	35	Brass	23769265
QJ 312 MA	60	130	31	35	Brass	23769264
QJ 312 N2MA/C3	60	130	31	35	Brass	13530187
QJ 312 N2MA/C2L	60	130	31	35	Brass	23769266
QJ 312 PHAS	60	130	31	35	Plastic	24004194
QJ 313 MA/C2L	65	140	33	35	Brass	24004195
QJ 313 MA	65	140	33	35	Brass	23769267
QJ 313 MA/W64	65	140	33	35	Brass	13200703
QJ 313 LA/P63	65	140	33	35	Steel	13530188
QJ 314 N2MA/C3	70	150	35	35	Brass	24004197
QJ 314 MA	70	150	35	35	Brass	23769268
QJ 314 N2MA/C2L	70	150	35	35	Brass	23769269
QJ 315 N2MA/C2L	75	160	37	35	Brass	24004199
QJ 315 N2MA	75	160	37	35	Brass	23769270
QJ 316 N2MA	80	170	39	35	Brass	23769271
QJ 316 N2MA/C2L	80	170	39	35	Brass	24004201
QJ 316 N2MA/C3	80	170	39	35	Brass	24004202
QJ 316 N2PHAS/C2L	80	170	39	35	Plastic	24004203
QJ 317 N2MA	85	180	41	35	Brass	23769272
QJ 317 N2MA/C3	85	180	41	35	Brass	13530190
QJ 318 N2MA/C3	90	190	43	35	Brass	23769274
QJ 318 N2MA	90	190	43	35	Brass	23769273
QJ 318 N2MA/C2L	90	190	43	35	Brass	24004204
QJ 318 N2MA/C4B20	90	190	43	35	Brass	24004205
QJ 318 N2PHAS/C2L	90	190	43	35	Plastic	24004206
QJ 319 N2MA/C2L	95	200	45	35	Brass	24004207
QJ 319 N2MA	95	200	45	35	Brass	23769275
QJ 319 N2PHAS/C2L	95	200	45	35	Plastic	24004208
QJ 320 N2MA/C2L	100	215	47	35	Brass	24004209
QJ 320 N2MA	100	215	47	35	Brass	23769276
QJ 320 N2MA/C3	100	215	47	35	Brass	13530191
QJ 322 N2MA/C3	110	240	50	35	Brass	24004211
QJ 322 N2MA	110	240	50	35	Brass	23769278
QJ 322 N2MA/C2L	110	240	50	35	Brass	24004210
QJ 324 N2MA	120	260	55	35	Brass	23769279
QJ 324 N2MA/C3	120	260	55	35	Brass	24004212
QJ 326 N2MA/C3	130	280	58	35	Brass	24004213
QJ 326 N2MA	130	280	58	35	Brass	23769280
QJ 328 N2MA	140	300	62	35	Brass	23769281
QJ 328 N2MA/C3	140	300	62	35	Brass	23769282
QJ 330 N2MA	150	320	65	35	Brass	23769283
QJ 330 N2MA/C3	150	320	65	35	Brass	24004214
QJ 332 N2MA/C3	160	340	68	35	Brass	24004215
QJ 332 N2MA	160	340	68	35	Brass	12492119
QJ 334 N2MA/C3	170	360	72	35	Brass	13530192
QJ 334 N2MA	170	360	72	35	Brass	23769284
QJ 336 N2MA/C3	180	380	75	35	Brass	23769285
QJ 336 N2MA	180	380	75	35	Brass	13530193
QJ 338 N2MA/C3	190	400	78	35	Brass	13530195
QJ 338 N2MA	190	400	78	35	Brass	13530194

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