

Planetary Gearheads

20 Nm

For combination with
 DC-Micromotors:
 3257, 3557, 3863
 Brushless DC-Servomotors:
 3564, 4490

Series 38A

	38A
Housing material	steel
Geartrain material	steel
Recommended max. input speed for:	
– continuous operation	4 500 rpm
Backlash, at no-load	≤ 0,75°
Bearings on output shaft	ball bearings
Shaft load max.:	
– radial (10 mm from mounting face)	≤ 230 N
– axial	≤ 200 N
Shaft press fit force, max.	≤ 200 N
Shaft play:	
– radial (5 mm from mounting face)	≤ 0,03 mm
– axial	≤ 0,3 mm
Operating temperature range	– 25°C ... + 90°C

Specifications

reduction ratio (absolute)	backlash ≤ °	weight without motor g	length without motor L2 mm	length with motor L1 mm					output torque continuous operation M _{max} Nm	direction of rotation (reversible)	efficiency %
				3257 G	3557 K	3564 K	3863 H	4490 H			
4:1	0,50	190	42,2	93,8	99,2	106,2	113,6	139,6	6	=	96
5:1	0,50	190	42,2	93,8	99,2	106,2	113,6	139,6	6	=	96
12:1	0,58	260	55,0	106,6	112,0	119,0	126,4	152,4	20	=	94
16:1	0,58	260	55,0	106,6	112,0	119,0	126,4	152,4	20	=	94
20:1	0,58	260	55,0	106,6	112,0	119,0	126,4	152,4	20	=	94
25:1	0,58	260	55,0	106,6	112,0	119,0	126,4	152,4	18	=	94
36:1	0,67	330	67,6	119,2	124,6	131,6	139,0	165,0	20	=	90
45:1	0,67	330	67,6	119,2	124,6	131,6	139,0	165,0	20	=	90
60:1	0,67	330	67,6	119,2	124,6	131,6	139,0	165,0	20	=	90
80:1	0,67	330	67,6	119,2	124,6	131,6	139,0	165,0	20	=	90
100:1	0,67	330	67,6	119,2	124,6	131,6	139,0	165,0	20	=	90
120:1	0,67	330	67,6	119,2	124,6	131,6	139,0	165,0	20	=	90
160:1	0,67	330	67,6	119,2	124,6	131,6	139,0	165,0	20	=	90
200:1	0,67	330	67,6	119,2	124,6	131,6	139,0	165,0	18	=	90
240:1	0,75	410	80,2	131,8	137,2	144,2	151,6	177,6	20	=	80
360:1	0,75	410	80,2	131,8	137,2	144,2	151,6	177,6	20	=	80
480:1	0,75	410	80,2	131,8	137,2	144,2	151,6	177,6	20	=	80
800:1	0,75	410	80,2	131,8	137,2	144,2	151,6	177,6	20	=	80
1 600:1	0,75	410	80,2	131,8	137,2	144,2	151,6	177,6	18	=	80

