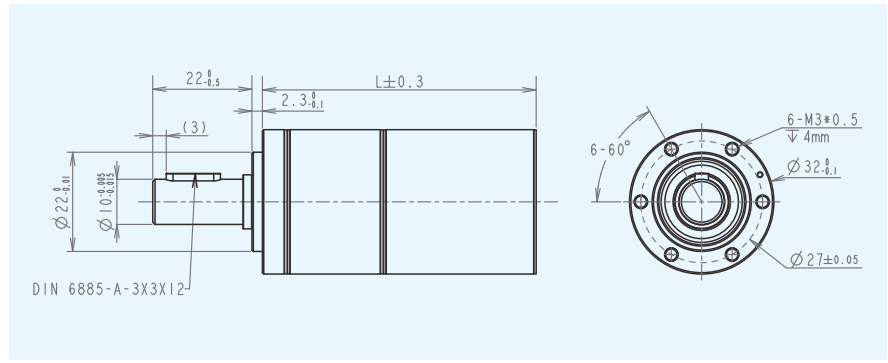


# ZWSMD032032

## Φ32mm Planetary Gearbox



### Gearbox Technical Data

	1	2	3	4
Number of stages	1	2	3	4
Max. continuous torque (Nm)	2.20	4.80	10.40	12.60
Max. intermittent torque (Nm)	2.70	6.00	13.00	16.00
Reduction Ratio	3.9, 5.3	16, 21, 26, 28, 35	62, 83, 103, 111, 138, 150, 172, 186, 231	243, 326, 406, 439, 546, 590, 679, 734, 794, 913, 987, 1135, 1227, 1526
Outer Diameter (mm)	32	32	32	32
Gearbox Length L1(mm)	32.0	47.0	62.0	77.0
Max. efficiency (%)	96	93	90	87
Recommended temperature range (°C)	-40~+100	-40~+100	-40~+100	-40~+100
Max. Weight (G)	167	231	287	350
Max. continuous transmittable power (W)	242	160	70	25
Max. intermittent transmittable power (W)	300	160	85	30
Average backlash no load (°)	0.4	0.7	0.8	0.8
Max. axial load (dynamic) (N)	110	110	110	110
Max. radial load (4mm from flange) (N)	150	200	250	250
Bearing at output	ball bearing	ball bearing	ball bearing	ball bearing
Axial play (mm)	0~0.1	0~0.1	0~0.1	0~0.1

\* Note: Data above does not include the motor. Specifications can be customized per customer requirements.

### Modular assembly

Integrated Product	Part No.	Number of stages			
		1	2	3	4
		Length(mm)			
DC Motor	Φ30mm graphite brush	74	87.50	103.50	117.50
Brushless Motor	Φ32mm coreless brushless motor	102	115.50	131.50	145.50
Encoder	CB-ST-16	Magnetic Encoder			

### Product Specifications

PART NO.	Rated Voltage (V)	No-Load Data		Load Data			Overall Length (mm)	Gearbox Rated Allowable Torque (NM)	Gearbox Intermittent Allowable Torque (NM)	Reduction Ratio	Gearbox Length L1(mm)
		No-Load Speed (rpm)	No-Load Current (mA max)	Load Speed (rpm)	Load Current (A Max)	Torque (N.m)					
ZWSMD032032-3.9-X	24.0	1286	150	1051	1.0	0.097	74.0	2.2	2.7	3.9	32.0
ZWSMD032032-5.3-X	24.0	1068	150	774	1.0	0.132				5.3	
ZWSMD032032-16-X	24.0	363	150	263	1.0	0.377	87.5	4.8	6.0	16	45.5
ZWSMD032032-21-X	24.0	270	150	196	1.0	0.507				21	
ZWSMD032032-26-X	24.0	217	150	157	1.0	0.630				26	
ZWSMD032032-28-X	24.0	201	150	146	1.0	0.681				28	
ZWSMD032032-35-X	24.0	162	150	117	1.0	0.847				35	
ZWSMD032032-62-X	24.0	92	150	67	1.0	1.439	103.5	10.4	13.0	62	61.5
ZWSMD032032-83-X	24.0	68	150	50	1.0	1.935				83	
ZWSMD032032-103-X	24.0	55	150	40	1.0	2.406				103	
ZWSMD032032-111-X	24.0	51	150	37	1.0	2.602				111	
ZWSMD032032-138-X	24.0	41	150	30	1.0	3.236				138	
ZWSMD032032-150-X	24.0	38	150	27	1.0	3.500				150	
ZWSMD032032-172-X	24.0	33	150	24	1.0	4.023				172	
ZWSMD032032-186-X	24.0	30	150	22	1.0	4.351				186	
ZWSMD032032-231-X	24.0	25	150	18	1.0	5.410				231	
ZWSMD032032-243-X	24.0	23	150	17	1.0	5.490				243	
ZWSMD032032-326-X	24.0	17	150	13	1.0	7.383	326	75.5			
ZWSMD032032-406-X	24.0	14	150	10	1.0	9.180	406				
ZWSMD032032-439-X	24.0	13	150	9	1.0	9.929	439				
ZWSMD032032-546-X	24.0	10	150	8	1.0	12.345	546				
ZWSMD032032-590-X	24.0	10	150	8	1.0	12.600	590				
ZWSMD032032-679-X	24.0	8	150	7	1.0	12.600	679				
ZWSMD032032-734-X	24.0	8	150	7	1.0	12.600	734				
ZWSMD032032-794-X	24.0	7	150	6	1.0	12.600	794				
ZWSMD032032-913-X	24.0	6	150	5	1.0	12.600	913				
ZWSMD032032-987-X	24.0	6	150	5	1.0	12.600	987				
ZWSMD032032-1135-X	24.0	5	150	4	1.0	12.600	1135				
ZWSMD032032-1227-X	24.0	5	150	4	1.0	12.600	1227				
ZWSMD032032-1526-X	24.0	4	150	3	1.0	12.600	1526				