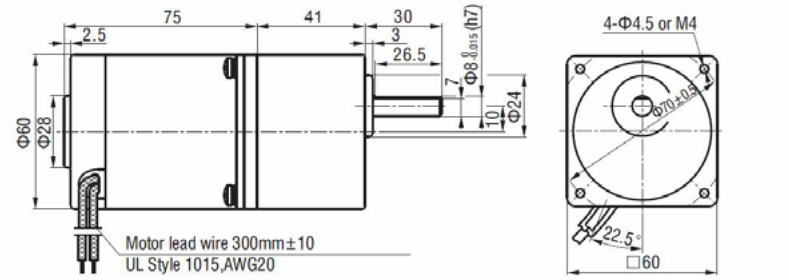
SDS6075B 10W

DRAWING (mm)



PHOTO

MODEL NO. DESIGNATION

SDS6075B – VOLTAGE – REDUCTION

Torque unit: **mNm** (millinewton meter)
Speed unit: **rpm** (revolutions per minute)

GEAR MOTOR DATA

Reduction	3	3,6	5	6	7,5	9	10	12,5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
Nominal torque 12V	80	100	140	170	210	250	280	340	410	500	500	620	740	890	990	1240	1350	1680	2020	2240	2690	3000	3000	3000
Nominal speed 12V	933	778	560	467	373	311	280	224	187	156	140	112	93	78	70	56	47	37	31	28	23	19	16	14
Nominal torque 24V	80	90	130	150	190	230	260	320	390	460	460	580	700	840	930	1160	1250	1750	1880	2090	2510	3000	3000	3000
Nominal speed 24V	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15
Length (mm)	116																							
Weight (kg)	1.1																							

Torque unit: **Nm** (newton meter)

GEAR HEAD DATA

Reduction	3	3,6	5	6	7,5	9	10	12,5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
Max. continuous torque	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Efficiency (%)	81	81	81	81	81	81	81	81	81	81	73	73	73	73	73	73	66	66	66	66	66	66	66	66
Radial F 20 mm shaft N	80	80	80	80	80	80	80	80	80	80	180	180	180	180	180	180	180	180	180	180	180	180	180	180
Max. thrust load N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Rotation when in cw	cw	cw	cw	cw	cw	cw	cw	cw	cw	cw	ccw	ccw	ccw	ccw	ccw	ccw	cw	cw	cw	cw	cw	cw	cw	cw
Length (mm)	41																							
Weight (kg)	0.4																							

GEAR MOTOR FEATURES	STANDARD	CUSTOMIZATION
Motor type	Spur geared brush DC motor	Voltage
Insulation Class	Class B (130°C)	Class F (155°C)
EMC filter	No	
Speed tolerance	± 5%	
Cables	AWG20, 300mm ± 10	Harness with connector
Housing materials	Aluminum	
Gears and shaft material	Metal, 40cr alloy steel	Shaft dimensions
Bearings type	Ball bearing	
Operating temperature	-10-…+40 °C	-40-…+40 °C
Manufacturing quality standards	ISO 9001	
RoHS compliance	Yes	
CE label	No	
UL approval	No	
IP rating	IP20	

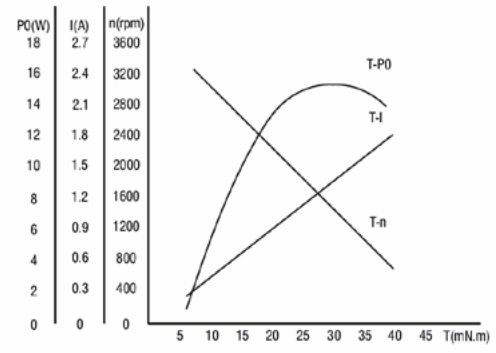
Insulation Resistance
20 MΩ or more when 500 VDC megger is applied between the windings and the case after rated operation under normal ambient temperature and humidity.

Temperature Rise
The temperature rise should be lower than 80°C measured by resistance method when the motor is working.

Dielectric Strength
In the circumstance of normal ambient temperature and humidity, there will be no problem to withstand 1.5kV at 50/60hz between the windings and the frame for 1 minute after rated motor operation.

MOTOR DATA		
Nominal voltage (V)	**12**	**24**
No load speed (rpm)	3200	3300
No load current (A)	1 Max.	0.5 Max.
Nominal speed (rpm)	2800	3000
Nominal torque (mNm)	34	32
Nominal current (A)	2	0.9
Output (W)	10	10
Length (mm)	75	
Weight (kg)	0.7	

MOTOR CHARACTERISTIC CURVE



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