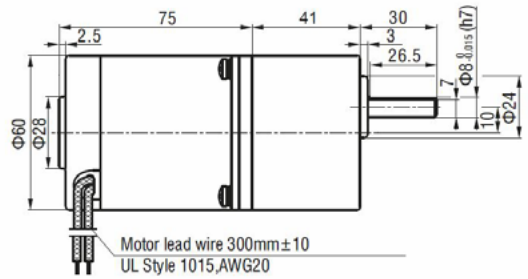
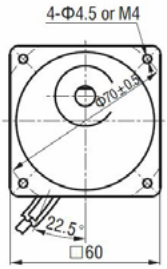
SDS6075A 6W

DRAWING
(mm)





PHOTO

MODEL NO. DESIGNATION

SDS6075A – 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	50	60	80	90	120	140	160	200	240	280	280	350	420	510	570	710	760	960	1150	1270	1530	1910	2290	2550
Nominal speed 12V	983	819	590	492	393	328	295	236	197	164	148	118	98	82	74	59	49	39	33	30	25	20	16	15
Nominal torque 24V	50	60	80	90	120	140	160	200	240	280	280	350	420	510	570	710	760	960	1150	1270	1530	1910	2290	2550
Nominal speed 24V	983	819	590	492	393	328	295	236	197	164	148	118	98	82	74	59	49	39	33	30	25	20	16	15
Length (mm)	116																							
Weight (kg)	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	

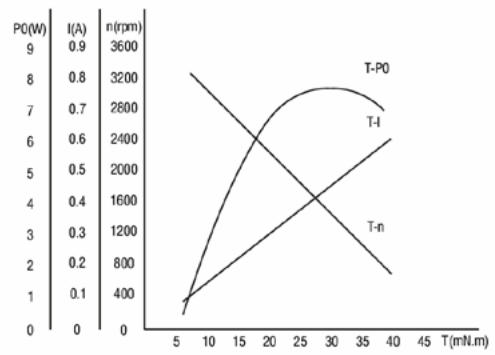
Insulation Resistance
20 MΩ or more when 500 VDC megger is applied between the windings and the case after rated operation under normal ambient temperature and humidity.

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	3200
No load current (A)	0.6 Max.	0.3 Max.
Nominal speed (rpm)	2950	2950
Nominal torque (mNm)	19	19
Nominal current (A)	0.8	0.8
Output (W)	6	6
Length (mm)	75	
Weight (kg)	0.6	

MOTOR CHARACTERISTIC CURVE



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