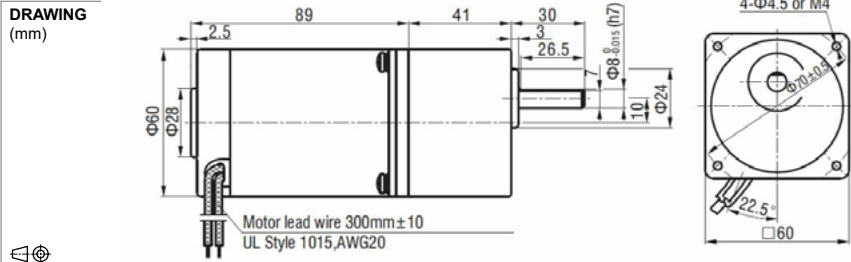


SDS6089A 15W



MODEL NO. DESIGNATION

SDS6089A	-	VOLTAGE	-	REDUCTION
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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	120	140	190	230	290	350	390	480	580	700	700	870	1040	1250	1390	1740	1880	2350	2820	3000	3000	3000	3000	3000					
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	120	140	190	230	290	350	390	480	580	700	700	870	1040	1250	1390	1740	1880	2350	2820	3000	3000	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)	130																												
Weight (kg)	1.3																												

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	
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)	0.8 Max.	0.4 Max.
Nominal speed (rpm)	2950	3000
Nominal torque (mNm)	48	48
Nominal current (A)	2	1
Output (W)	15	15
Length (mm)	89	
Weight (kg)	0.9	

