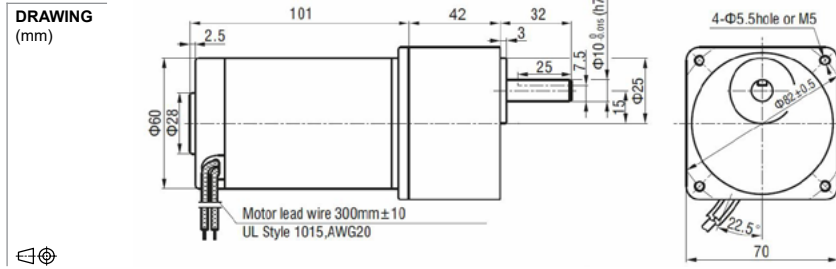


SDS70101A 25W



MODEL NO. DESIGNATION
 SDS70101A - 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	190	230	320	390	490	580	650	810	970	1170	1170	1460	1750	2100	2340	2920	3170	3960	4750	5000	5000	5000	5000	5000	
Nominal speed 12V	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15	
Nominal torque 24V	210	250	350	410	520	620	690	860	1040	1240	1240	1550	1860	2240	2490	3110	3730	4660	5000	5000	5000	5000	5000	5000	
Nominal speed 24V	933	778	560	467	373	311	280	224	187	156	140	112	93	78	70	56	47	37	31	28	23	19	16	14	
Length (mm)																								143	
Weight (kg)																								1.5	

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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Efficiency (%)	81	81	81	81	81	81	81	81	81	73	73	73	73	73	73	66	66	66	66	66	66	66	66	66	
Radial F 20 mm shaft N	120	120	120	120	120	120	120	120	120	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
Max. thrust load N	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
Rotation when in cw	cw	cw	cw	cw	cw	cw	cw	cw	cw	ccw	ccw	ccw	ccw	ccw	ccw	cw	cw	cw	cw	cw	cw	cw	cw	cw	
Length (mm)																								42	
Weight (kg)																								0.5	

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)	3300	3200
No load current (A)	1 Max.	0.5 Max.
Nominal speed (rpm)	3000	2800
Nominal torque (mNm)	80	85
Nominal current (A)	3.5	1.6
Output (W)	25	25
Length (mm)	101	
Weight (kg)	1	

