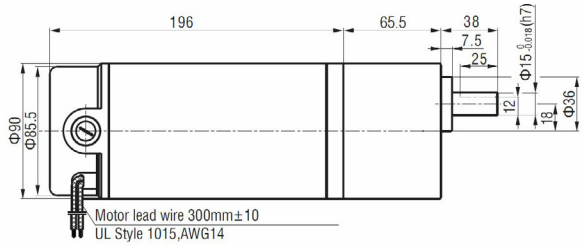
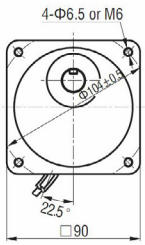
SDS90171A 250W

DRAWING
(mm)





PHOTO

MODEL NO. DESIGNATION

SDS90171A – VOLTAGE – REDUCTION

Torque unit: **Nm** (newton meter)
Speed unit: **rpm** (revolutions per minute)

GEAR MOTOR DATA

Reduction	3	3,6	5	6	7,5	9	1	12,5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750
Nominal torque 24V	1.9	2.3	3.2	3.9	4.8	5.8	5.8	7.3	8.7	10.4	10.4	13.1	15.7	18.8	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
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	12	10	6	5	4
Length (mm)	261.5																												
Weight (kg)	4.7																												

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

GEAR HEAD DATA

Reduction	3	3,6	5	6	7,5	9	1	12,5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750
Max. continuous torque	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Efficiency (%)	81	81	81	81	81	81	73	73	73	73	66	66	66	66	66	66	66	66	59	59	59	59	59	53	53	53	53	53	53
Radial F 20 mm shaft N	500	500	500	500	500	500	600	600	600	600	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
Max. thrust load N	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Rotation when in cw	cw	cw	cw	cw	cw	cw	ccw	ccw	ccw	ccw	cw	cw	cw	cw	cw	cw	cw	cw	ccw	ccw	ccw	ccw	ccw	ccw	cw	cw	cw	cw	cw
Length (mm)	65.5																												
Weight (kg)	1.5																												

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	AWG14, 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	Yes	
UL approval	Yes	
IP rating	IP20	

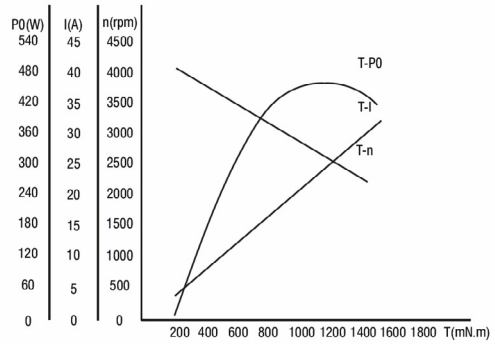
Insulation Resistance
20 MΩ or more when 500 VDC megger is applied between the windings and the case after rated operation under normal ambient temperature and humidity.

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)	**24**
No load speed (rpm)	3400
No load current (A)	3.0 Max.
Nominal speed (rpm)	3000
Nominal torque (mNm)	796
Nominal current (A)	16
Output (W)	250
Length (mm)	196
Weight (kg)	3.2

MOTOR CHARACTERISTIC CURVE



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