

MOTOR SPECIFICATION (TENTATIVE)

MOTOR MODEL KST-86E33-0001

CUSTOMER MODEL

1. SCOPE

THIS SPECIFICATION COVERS THE GENERAL REQUIREMENTS FOR THE STEP MOTOR Y09-59D3-8536 THAT CONSISTS OF UNIPOLAR WINDING STATOR AND HYBRID MAGNET ROTOR

2. ELECTRICAL CHARACTERISTICS

ITEM	SPECIFICATION	DESCRIPTION
DUTY	CONTINUOUS	
DRIVE VOLTAGE	36 V D.C	
RATED CURRENT	5.8 A (PHASE)	
STEP ANGLE	1.2°(DEG) FULL STEP	
NUMBER OF PHASE	3PHASE UNIPOLAR 3PHASE EXCITING	
INSULATION CLASS(UL)	UL CLASS B (COIL)	
WINDING RESISTANCE	0.35Ω±20%	25°C
WINDING INDUCTANCE	1.2mH±20%	NOTE)1
HOLDING TORQUE	2.0N·m(21kgf·cm) MIN.	NOTE)2
DETENT TORQUE	500mN·m(500gf·cm) REF.	
MAX STARTING PULSE RATE	1200PPS MIN.	NOTE)3
POSITIONAL ACCURACY	±0.06°(DEG) MAX.	NOTE)4
DIELECTRIC STRENGTH	500V A.C 1MINUTE NO ABNORMAL	NOTE)5
INSULATION RESISTANCE	100 MΩ MIN.	NOTE)6
TEMPERATURE RISE	80 K (80 DEG) MAX.	NOTE)7

3. MECHANICAL CHARACTERISTICS

ITEM	SPECIFICATION	DESCRIPTION
MECHANICAL DEMENSION	ACCORDING TO SPECIFICATION Y-20-1106-0(PAGE3/3)	
SHAFT MATERIAL	SUS303	
BEARING	SINGLE ROW BALL BEARING	
END BELL MATERIAL	ALUMINUM ALLOY	
MASS	APPROXIMATELY 1800g	
ROTOR INERTIA	APPROXIMATELY 1400g·cm ² (1400×10 ⁻³ g·cm·s ²)	

4. ADDITIONAL

ITEM	SPECIFICATION	DESCRIPTION
DIRECTION OF ROTATION	PHASE SEQUENCE TO PRODUCE CLOCKWISE ROTATION VIEWED FROM MOUNTING END IS AS TABLE 1	
TYPE OF LEAD WIRE	UL 1430 CSA AWG 20	
COLOR OF LEAD WIRE	ACCORDING TO TABLE 2	
LIFE	20000 HOURS MIN.	NOTE)8
MATERIALS OF MOTOR CONTAIN TEN SUBSTANCES Pb Cr(VI+) Cd Hg PBB PBDE DEHP BBP DBP AND DIBP THOSE CONTENTS COMPLY WITH THE RoHS INSTRUCTION.		

ITEM	SPECIFICATION	DESCRIPTION
OPERATION AMBIENT TEMPERATURE	0°C~+50°C	
OPERATION AMBIENT HUMIDITY	20%RH ~ 90%RH	NOTE)9
STORAGE AMBIENT TEMPERATURE	-20°C~+70°C	
STORAGE AMBIENT HUMIDITY	15%RH ~ 95%RH	NOTE)9

CAUTION AND RECOMMENDATION

PLEASE DON'T HOLD MOTOR BY LEAD WIRES NO OUTSIDE FORCE ON THE EXIT OF LEAD WIRES


PLEASE DON'T PLUG OR UNPLUG THE MOTOR CONNECTOR WHILE POWER ON

PLEASE DON'T DROP HURL AND DUMP MOTOR AGAINST HARD MATERIAL MALFUNCTION MAY NOT BE OBSERVED AT EARLY STAGE AFTER SUCH SHOCK BUT IT MAY BE FOUND LATER THIS TYPE OF MISHANDLING VOIDS OUR WARRANTY

THE FUNCTION OR PERFORMANCE SHALL BE EVALUATED BY INSTALLING MOTOR TO APPLICATION THAT SHOULD BE CHECKED AT BUYER'S SIDE

PLEASE DON'T REUSE DISASSEMBLED MOTOR

OUR CORPORATION WILL NOT BE RESPONSIBLE FOR ANY PATENT DISPUTE OR PROBLEM CAUSED BY ACTUAL APPLICATIONS

MATERIAL	---									KST-86E33-0001
FINISH	---	---	'20-11-06	---	00 First version	Xu Yuanhao				
		SYM	DATE	REVISION NO.	REVISIONS	BY				NOTE
DRAWN	DESIGNED	CHECKED	CHECKED	SCALE	FREE	TITLE	MOTR SPECIFICATION			THIRD ANGLI PROJECTION
Dongguan Kaifull '20-11-06 Xu Yuanhao	Dongguan Kaifull '20-11-06 Xu Yuanhao					DWGNO.	Y-20-1106-0			
DONGGUANG KAIFULL CO.,LTD.								SHEET		1/3

