

1

2

3

4

5

6

7

8

9

10

85ZWC25X-1

DINGS' MOTION

DATE

Connector SM07B-GHS-TB

Connector height

20.3±1

4.9±0.3

5MAX

25±0.2

3.3

Adhesive groove

(2.5)

(2.5)

(13.8)

Adhesive groove bottom diameter

Ø 52^{+0.046}₀

Potting outer diameter

Ø 81.5MAX

Adhesive groove bottom diameter

Ø 84.7

Stator outer diameter

Ø 85±0.043

Hall sensor height

3.3

Adhesive groove

(2.5)

(2.5)

(13.8)

Heat shrink tube

Three-phase wire

Stator inner hole

Ø 61.6

30°

30°

Soldering point height 2

(20)

(300)

1:2

NOTE:1、列表内峰值力矩测试基于电机稳态常温。
2、列表内电机性能参数基于鼎智公司开环驱动,非闭环驱动。

COMMUTATION HALL SEQUENCE

ROTATION	HIGH	LOW	HU	HV	HW
CW (Clockwise rotation as seen from the Hall end)	U	V	1	0	1
	U	W	1	0	0
	V	W	1	1	0
	V	U	0	1	0
	W	U	0	1	1
	W	V	0	0	1

NTC Lead wires

UL1061 26AWG	NTC2	BRN
	NTC1	YEL

REDUCTION RATIO		-	DIELECTRICAL STRENGTH		500V 1S 1mA
POLE PAIRS		10	INSULATION RESISTANCE		100MΩhm 20C
RATED CURRENT(A)		10.3(REF)	MOUNTING TYPE		IM B5 V1 V3
RATED SPEED(RPM)		3100	DUTY TYPE		-
RATED TORQUE(mN·m)		1300	COOLING TYPE		IC410
RATED POWER(W)		422	PROTECTION GRADE		IP00
RATED VOLTAGE(VDC)		48	INSULATION CLASS		F
PEAK TORQUE1(mN·m)		3900	WEIGHT OF STATOR(g)		~315g
TORQUE CONSTANT(mN·m/A)		160	WEIGHT OF ROTOR(g)		~135g
NO LOAD SPEED(RPM)		3650	ROTOR INERTIA(g.cm ²)		~1086g.cm ²
RESISTANT(OHM)		TBD			

CUSTOMER

WIRING CHART

U

V

W

UL1332
16AWG

PHASE U

PHASE V

PHASE W

UL1061
26AWG

+5 VDC

HALL U

HALL V

HALL W

GND

YBL

RED

BLK

Line color line sequence

Wire gauge	Motor wire	Wire color	Wire gauge	Hall wire	Wire color
UL1332 16AWG	PHASE U	YBL	UL1061 26AWG	+5 VDC	RED
	PHASE V	RED		HALL U	BLU
	PHASE W	BLK		HALL V	GRN
				HALL W	WHT
				GND	BLK

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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS AND TOLERANCES ARE AS BELOW

LINER A		ANGULAR	
0~3	±0.2	0~10	±1.5°
3~6	±0.5	10~50	±1°
6~30	±1	50~120	±30'
30~120	±2	120~400	±15'

DRAWN

郭品君

DATE

20250729

CHECK

刘进

DATE

20250729

APPRVD

于彩云

DATE

20250729

COUNTERSIGN

DATE

MODEL

85ZWC25X-1_0_0-00WX

SIZE

A3

SHEET

1/2

SCALE

1:1

REV

APP: YH, RHT/SBM

DINGS