



ISO 9001 國際品質認證
ISO 9001 CERTIFICATE

松暉電機工業股份有限公司
SONG HUEI ELECTRIC CO., LTD.
佛山市松暉電機科技有限公司
FOSHAN SONG HUEI ELECTRIC CO., LTD.

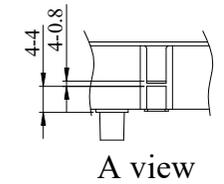
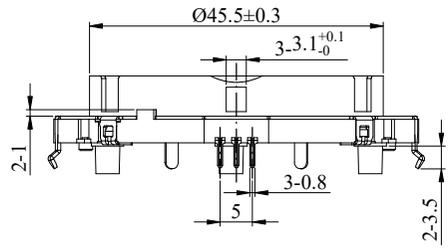
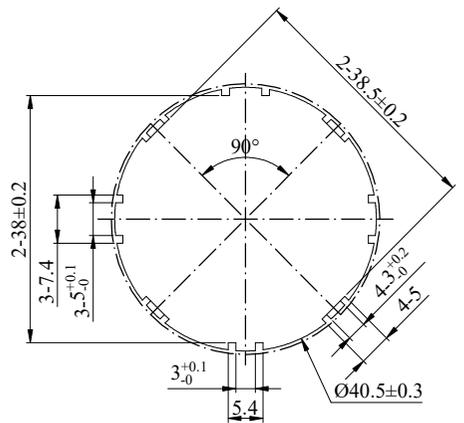
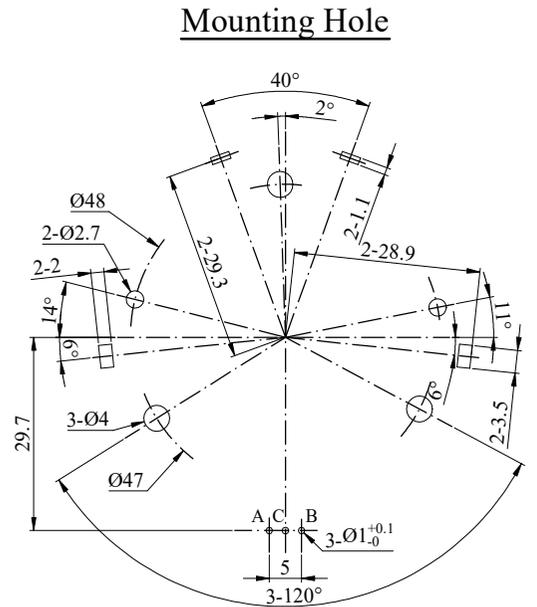
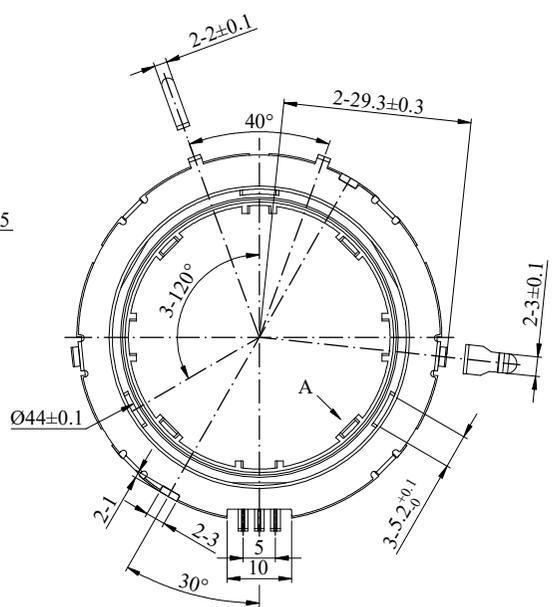
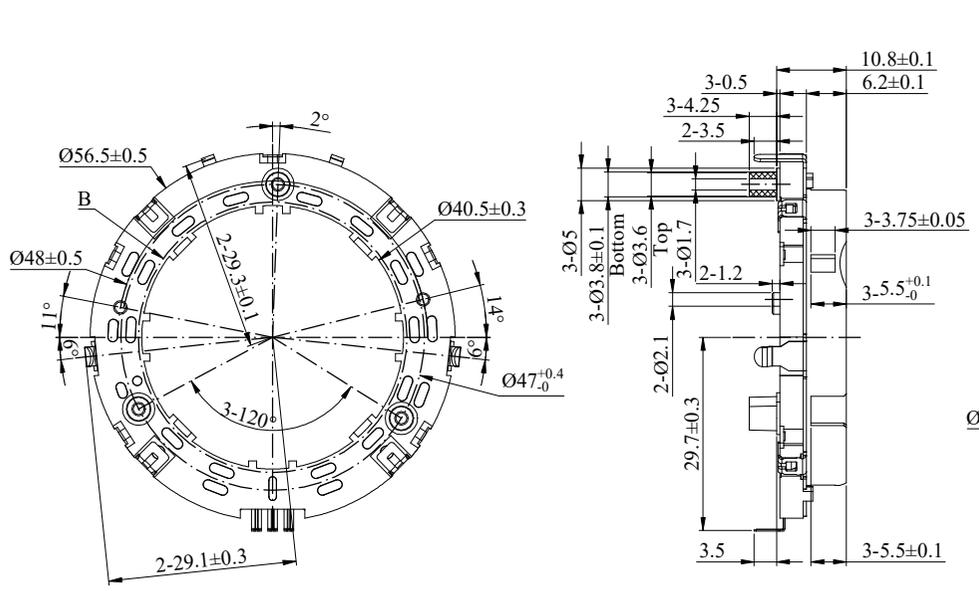
一般事項 General															
使用溫度範圍 Operating temperature	-30 °C ~ 80 °C														
儲存溫度 Storage temperature	-40 °C ~ 85 °C														
電氣特性 Electrical Characteristics															
額定功率 Power rating	DC 5 V 0.5 mA														
絕緣阻抗 Insulation resistance	≥ 100 MΩ at DC 250 V														
耐電壓 Withstand voltage	For 1 minute or more (at AC 300 V)														
滑動雜訊 Sliding noise	<p>t1, t3 ≤ 3 mS, t2 ≤ 2 mS (Test conditions 測試條件: 360 ° / S) Using the C / R filter circuit is recommended 建議使用 C / R 濾波電路</p>														
分解能力 Resolution	15 pulses / 360 ° for each phase 每相 15脈衝 / 360 °														
相位差 Phase difference	<p>ΔT ≥ 4mS (shaft is rotated at 60r/min 軸以360 ° / S 的速度转动測定)</p>														
輸出信號和旋轉方向 Output signal and rotational direction	<table border="1"> <tbody> <tr> <td rowspan="3">順時針方向 C. W</td> <td>A (A-D端子間) A (Terminal A-D)</td> <td>OFF ———— ON - - - - -</td> </tr> <tr> <td>B (B-D端子間) B (Terminal B-D)</td> <td>OFF ———— ON - - - - -</td> </tr> <tr> <td>C (C-D端子間) C (Terminal C-D)</td> <td>OFF ———— ON - - - - -</td> </tr> <tr> <td rowspan="3">逆時針方向 C. C. W</td> <td>A (A-D端子間) A (Terminal A-D)</td> <td>OFF ———— ON - - - - -</td> </tr> <tr> <td>B (B-D端子間) B (Terminal B-D)</td> <td>OFF ———— ON - - - - -</td> </tr> <tr> <td>C (C-D端子間) C (Terminal C-D)</td> <td>OFF ———— ON - - - - -</td> </tr> </tbody> </table>	順時針方向 C. W	A (A-D端子間) A (Terminal A-D)	OFF ———— ON - - - - -	B (B-D端子間) B (Terminal B-D)	OFF ———— ON - - - - -	C (C-D端子間) C (Terminal C-D)	OFF ———— ON - - - - -	逆時針方向 C. C. W	A (A-D端子間) A (Terminal A-D)	OFF ———— ON - - - - -	B (B-D端子間) B (Terminal B-D)	OFF ———— ON - - - - -	C (C-D端子間) C (Terminal C-D)	OFF ———— ON - - - - -
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機械特性 Mechanical Characteristics															
全回轉角度 Total rotational angle	360 °														
全回力矩 Rotational torque	100 ~ 400 gf.cm														
定位點數及位置 Number and position detent	30 detents (Step angle: 12 ° ± 3 °)														
回轉壽命 Rotational life	30,000 cycles at a speed of 600 cycles / per hour 每小時 600 圈的速度測試														



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焊錫耐熱性 Soldering heat resistance	手焊: 300 °C 以下, 3 秒以內。 自動或半自動機台焊錫條件: 預熱基板表面溫度 100 °C 以下, 時間 1 分以內, 焊接溫度 230 ± 5 °C 以下, 時間 3 秒以內。 Manual soldering: less than 300 °C and within 3 seconds. For automated or semi-automated soldering equipments: Preheating surface temperature of board: less than 100 °C and within 1 min. Solder temperature: 230 ± 5 °C or less. Immersion time: within 3S.
濕度測試 Humidity test	溫度 40 ± 2 °C, 濕度 90 ~ 95% 的恒溫恒濕槽中放置 96 ± 4 小時後, 在常溫、常濕中放置 1.5 小時後測試。 The encoder shall be stored at temperature of 40 ± 2 °C with relative humidity of 90% to 95% for 96 ± 4 H satisfied in a thermostatic chamber. And the encoder shall be subjected to standard atmospheric conditions for 1.5H. After which measurements shall be made.
高溫測試 Heat test	溫度 85 ± 3 °C 的恒溫箱中放置 96 ± 4 小時後, 在常溫、常濕中放置 1.5 小時後測試。 The encoder shall be stored at temperature of 85 ± 3 °C for 96 ± 4 H satisfied in a thermostatic chamber. And the encoder shall be subjected to standard atmospheric conditions for 1.5H. After which measurements shall be made.
低溫特性 Cold test	溫度 -40 ± 3 °C 的恒溫箱中放置 96 ± 4 小時後, 在常溫、常濕中放置 1.5 小時後測試。 The encoder shall be stored at temperature of -40 ± 3 °C for 96 ± 4 H satisfied in a thermostatic chamber. And the encoder shall be subjected to standard atmospheric conditions for 1.5H. After which measurements shall be made.



Non notation tolerance	
< 10	±0.3
10 ~ 100	±0.5
> 100	±0.8

S® SONG HUEI ELECTRIC CO., LTD.
FOSHAN SONG HUEI ELECTRIC CO., LTD.

MODEL: EC056-001/0496

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△			
△			
△			
ISSUE	SUBJECT	NAME	DATE
RECORD			

Approval

 2021-05-07
 藍濬毅

Checked

 2021-05-07
 鄧記穩

Projected

 2021-05-07
 何鴻根

UNIT	mm	SCALE	1:1.2
VERSION	1.0	DATE	2021.05.07
DRAWING NO.	ED-117		