



ENCODER TERMINAL CONNECTION

3

2

8

4

1

5

6

7

VIEW A

1

2

4

5

6

FG

CON. CASE

PHASE V

-

-

PHASE U

PHASE W

FRAME GROUND

FRAME GROUND

RECEPTACLE SIZE:M23  
HOUSING:SF-5EP1N8AAD00S  
MAKER:PHOENIX CONTACT

1

2

3

4

5

6

7

8

CON. CASE

PG5V

PG0V

FRAME GROUND

BAT (+)

BAT (-)

DATA (+)

DATA (-)

-

FRAME GROUND

RECEPTACLE SIZE:M12  
HOUSING:SACC-MSQ-M12MS  
-25-3.2 SCO  
MAKER:PHOENIX CONTACT

6

FG

2

4

1

5

VIEW B

30°

270°

VIEW C

NOTES.

1. ALL DIMENSIONS ARE IN MILLIMETERS.

2. MOTOR SPECIFICATIONS :900-172-590

3. ENCODER SPECIFICATIONS:900-172-503 (24BIT ABSOLUTE)

4. VIBRATION : 15μm OR BELOW AT RATED SPEED.

5. PLUGS AND CABLE CLAMPS ARE OPTIONAL.

6. READ AND UNDERSTAND DOCUMENT PACKED WITH MOTOR (SAFETY PRECAUTIONS), AND BE CAREFUL USING MOTOR.

7. DEGREES OF PROTECTION:IP67 EXCEPT FOR SHAFT OPENING.

8. DO NOT TOUCH EACH OF CONNECTOR PINS DIRECTLY. IT CAUSE FAILURE.

9. IN CASE OF MOUNTING THIS MOTOR HORIZONTAL, TO PLACE THE CONNECTOR DOWN IS RECOMMENDABLE.

10. USE HEXAGON SOCKET HEAD CAP SCREWS FOR MOUNTING MOTOR.

11. MOTOR CONNECTOR COULD BE TURNED IN THE RANGE OF ☆ WITHIN 10 TIMES.

TYPE											
RATED OUTPUT kW											
RATED TORQUE N・m											
TIME RATING											
RATED SPEED min <sup>-1</sup>											
VOLTAGE V <sub>rms</sub>											
RATED CURRENT A <sub>rms</sub>											
THERMAL CLASS											
WEIGHT kg											
ALLOWABLE RADIAL LOAD F <sub>r</sub> N											
ALLOWABLE THRUST LOAD F <sub>s</sub> N											
SGM7G-05D7F6F											
0.45											
2.86											
CONT.											
1500											
400 (3PHASE)											
1.9											
F											
3.3											
490 (AT SHAFT END)											
98											

<div><div><div><div><div>DRWN.</div><div>CHKD.</div><div>APRV.</div></div><div>H. KATO</div><div>T. HIROSE</div><div>K. AOKI</div></div></div><div>TITLE</div><div>AC SERVOMOTOR Σ-7 SERIES</div><div>SGM7G MODEL 0.45kW</div></div>	DRWN. DATE	Jun. 15' 15		REV. <div>1</div>
	DWG. NO.	900-181-032		

4	Revised	15-07-07	H. KATO/T. HIROSE	SCALE 1:2.5
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1	2	3	4	5	6	7	SIZE	A3
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