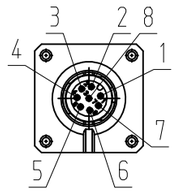
DWG. NO. 900-180-720

RoHS CE

ENCODER TERMINAL CONNECTION

1	PG5V
2	PG0V
3	FRAME GROUND
4	–
5	–
6	DATA (+)
7	DATA (-)
8	–
CON. CASE	FRAME GROUND

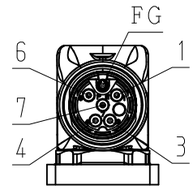


VIEW A

RECEPTACLE SIZE:M12
HOUSING:SACC-MSQ-M12MS-25-3, 2 SCO
MAKER:PHOENIX CONTACT

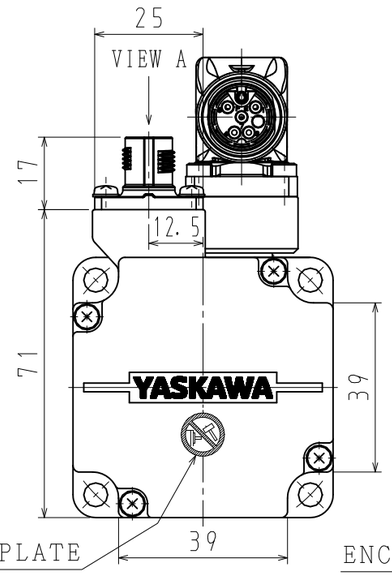
MOTOR TERMINAL CONNECTION

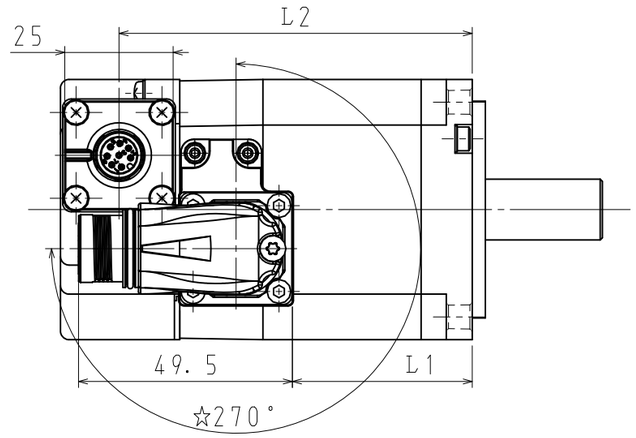
1	–
3	PHASE U
4	PHASE V
6	–
7	PHASE W
FG	FRAME GROUND
CON. CASE	FRAME GROUND

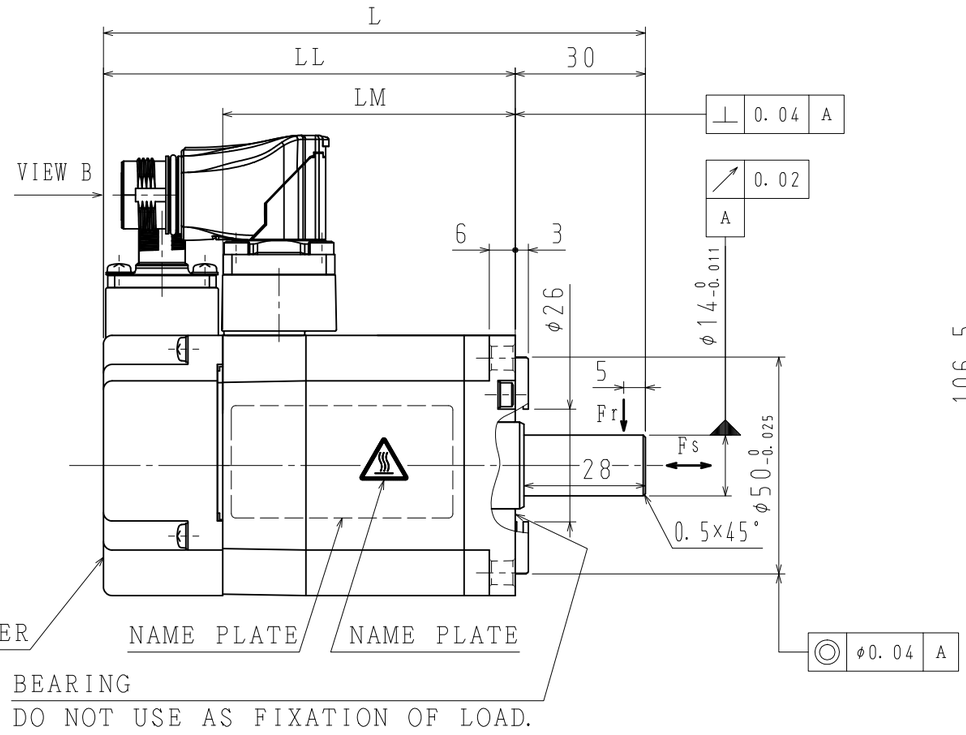


VIEW B

RECEPTACLE SIZE:M17
HOUSING:ST-5EP1N8AA500S
MAKER:PHOENIX CONTACT

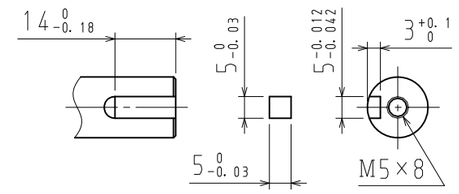




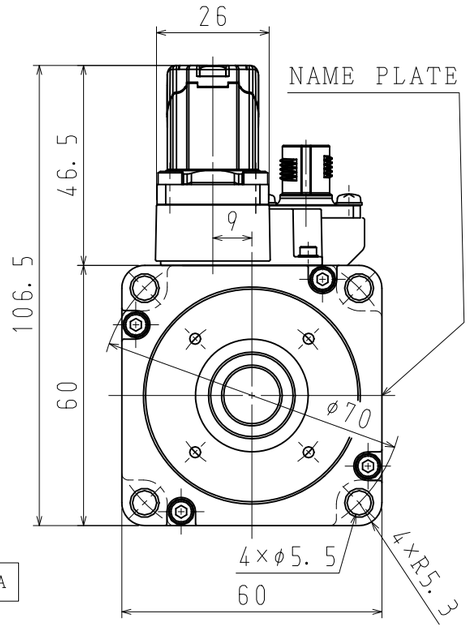


BEARING
DO NOT USE AS FIXATION OF LOAD.

SHAFT TYPE
(CASE OF ITEM NO. 2, 4)



ITEM NO. 2 AND 4 SUPPLIES A KEY.



NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. MOTOR SPECIFICATIONS :900-172-604
3. ENCODER SPECIFICATIONS:900-172-502 (24BIT INCREMENTAL)
4. VIBRATION:15μm OR BELOW AT RATED SPEED.
5. MOTOR CABLE AND ENCODER CABLE 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. MUST USE SPECIFIED CONNECTORS FOR MOTOR.
8. AT THE TIME OF DELIVERY OF MOTOR, EACH OF CONNECTORS ARE ATTACHED PROTECTIVE PARTS. PLEASE REMOVE THEM BEFORE ATTACHING CABLES.
9. DO NOT TOUCH EACH OF CONNECTOR PINS DIRECTLY. IT CAUSES FAILURE.
10. MOTOR CONNECTOR COULD BE TURNED IN THE RANGE OF ☆ WITHIN 10 TIMES.

ITEM NO.	TYPE	SHAFT TYPE	L (mm)	LL (mm)	LM (mm)	L1 (mm)	L2 (mm)	RATED OUTPUT (W)	RATED TORQUE (N·m)	TIME RATING	RATED SPEED (min-1)	VOLTAGE (Vrms)	RATED CURRENT (Arms)	THERMAL CLASS	WEIGHT (kg)	ALLWABLE RADIAL LOAD Fr (N)	ALLWABLE THRUST LOAD Fs (N)
1	SGM7A-02DFF21	STRAIGHT	108.5	78.5	51.2	25	65	200	0.637	CONT.	3000	400 (3PHASE)	1.2	B	0.9	245	74
2	SGM7A-02DFF61	KEY+TAP															
3	SGM7A-04DFF21	STRAIGHT	125	95	67.2	41.5	81.5	400	1.27				1.2		1.3		
4	SGM7A-04DFF61	KEY+TAP															

SCALE 1 :√2

YASKAWA

DRWN.	K. ARAI
CHKD.	T. HIROSE
APRV.	K. AOKI

TITLE AC SERVOMOTOR Σ-7 SERIES
SGM7A MODEL 200, 400W

DRWN. DATE JUN. 09,'15
DWG. NO. 900-180-720
REV.

SIZE A3