REF. NO: MPCL CAT. 9/94 P.84

GENERAL:

MODEL 3P-5F IS A CONDUCTIVE PLASTIC DUAL WIPER POTENTIOMETER WHICH PROVIDES SINE/COSINE OUTPUTS.

ELECTRICAL SPECIFICATIONS:

ELECTRICAL ANGLE:	360° (4 QUADRANTS)
TOTAL RESISTANCE:	1 kOHMS ±20% (ACROSS TERMINALS - AND +)
CONFIRMITY(PEAK TO PEAK):	CLASS A: ±0.8% CLASS B: ±1.5%
REPEATABILITY:	0.003% PEAK TO PEAK
OUTPUT PHASING:	90.0° ±0.5°
OUTPUT SMOOTHNESS:	0.5% MAX.
POWER RATING:	3 WATTS @70°C
INSULATION RESISTANCE :	100 meg OHMS MIN. @ 500 Vdc
DIELECTRIC STRENGTH:	1,000 Vrms @50/60 Hz for 1 MINUTE

MECHANICAL SPECIFICATIONS:

MECHANICAL ANGLE:	360°
TORQUE:	30 g-cm (0.42 in-oz) MAX.
WEIGHT:	APPROX. 120 g (4.2 oz)
LIFE:	10 MILLION CYCLES MIN.

ENVIRONMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE:	-40°C to +120°C
VIBRATIONS:	15 Gs, 2,000 Hz
SHOCK:	50Gs, 11 mS

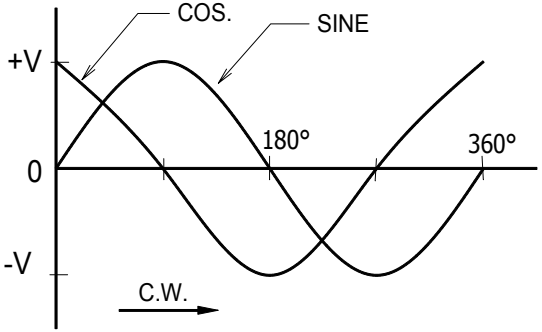

FIGURE 4 OUTPUT CHARACTERISTICS

REVISION

C.O.N	SYM	DESCRIPTION	DATE	DRAWN	APPR'D

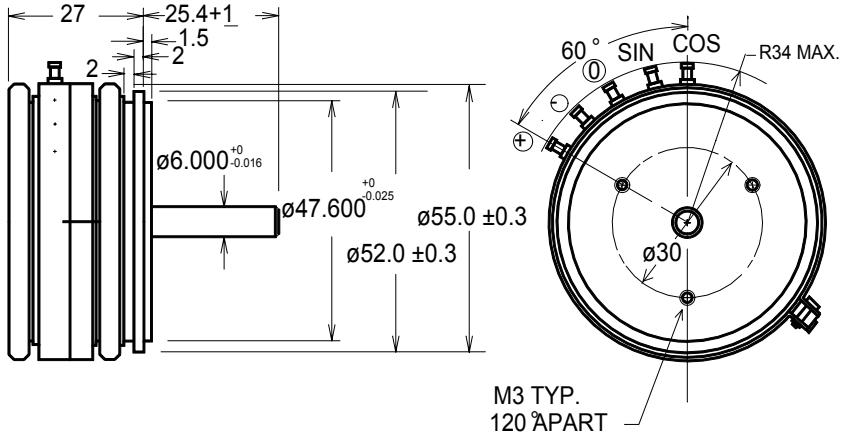

FIGURE 1 OUTLINE DIMENSION

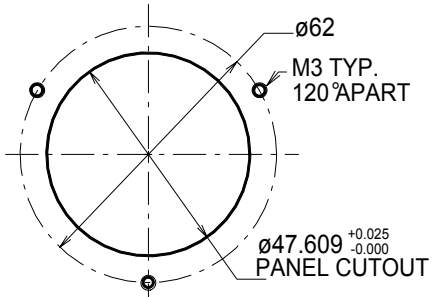

FIGURE 2 MOUNTING DIMENSION

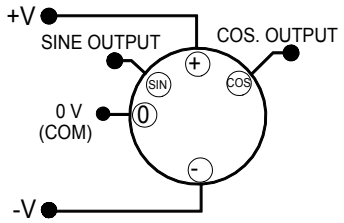

FIGURE 3 WIRING DIAGRAM

UNLESS OTHERWISE SPECIFIED,DIMENSIONS ARE IN mm(in). TOLERANCES: ANGLES ±1.5° <10 mm: ±0.25 <100 mm: ±0.5 >100 mm: ±1	DRAWN T.TSUGAWA	DATE 2/8/95	SPECIFICATION DWG FOR MODEL SP-5F SIN/COS POTENTIOMETER	Midori America Corporation FULLERTON, CA A-MAC-B63
	CHECKED	DATE		
	APPROVED	DATE		
	APPROVED	DATE		
	SCALE:		FILE: SP-5F	1 OF 1

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