
C2699 Geared Potentiometer Assembly Model Selection

C **2** **6** **9** **9** - **A** **A** **A** - **B** **B** **B** - **C** **D** **D** - **E** **F**

MODEL SERIES: _____

_____ **SUFFIX IDENTIFIER:**

C2699 = Geared potentiometer assembly, heavy duty, multiturn.

AAA = POTENTIOMETER VALUE:

102 = 1000 ohms.

502 = 5000 ohms.

103 = 10000 ohms.

XXX = Special factory assigned.

BBB = INTERNAL GEAR RATIO AND REDUCTION STAGES:

085 = 0.0625 to 1, double

088 = 0.0833 to 1, double

169 = 0.1111 to 1, double

090 = 0.1250 to 1, double

170 = 0.1428 to 1, double

171 = 0.1667 to 1, double

004 = 0.2500 to 1, single

007 = 0.3333 to 1, single

009 = 0.5000 to 1, single

010 = 0.6667 to 1, single

014 = 1.0000 to 1, single

018 = 1.5000 to 1, single

019 = 2.0000 to 1, single

021 = 3.0000 to 1, single

024 = 4.0000 to 1, single

025 = 5.0000 to 1, single

507 = 6.0000 to 1, double

534 = 7.0000 to 1, double

484 = 7.5000 to 1, double

510 = 8.0000 to 1, double

561 = 9.0000 to 1, double

511 = 10.0000 to 1, double

564 = 12.0000 to 1, double

565 = 15.0000 to 1, double

646 = 20.0000 to 1, double

673 = 25.0000 to 1, double

C = INTERNAL GEAR TYPE AND NUMBER OF REDUCTION STAGES:

S = Standard spur gears, single

R = Zero backlash gears, single

D = Standard spur gears, double

C = Zero backlash gears, double

DD = INPUT DRIVE SHAFT DESCRIPTION:

12 = .375 inch diameter, no key or flat.

16 = .500 inch diameter, with 1/8 X 1/2 woodruff key.

XX = Special, factory assigned number.

E = MOUNTING STYLE AND CONFIGURATION:

0 = Foot mount with conduit connection.

1 = Flange mount with conduit connection.

2 = Foot mount with circular connector.

3 = Flange mount with circular connector.

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F = FACTORY ASSIGNED OPTION IDENTIFIER:

0 = Standard, no options supplied.

X = Special features, factory assigned number.

NOTES:

- 1) Additional potentiometer resistance values for the potentiometer up to 100,000 ohms are available upon request. The required value must be specified at the time of order placement. Datatran will modify the potentiometer value identifier (suffix AAA) in the part number to show the change. Depending on the order quantity and stock availability orders with special potentiometer values may be subject to extra charge.
- 2) The gear ratios listed define the number of turns of the input drive shaft required to produce one complete revolution of the potentiometer. Full electrical travel of the potentiometer will be obtained with .94 times the values shown.
- 3) This geared potentiometer is available with over 700 gear ratios. The required value must be specified at the time of order placement. Datatran will modify the gear ratio value identifier (suffix BBB) in the part number to show the change. Depending on the order quantity and stock availability, orders with special gear ratio values may be subject to extra charge. Interested user's should contact Datatran's Sales Department for a list of the currently available gear ratios.
- 4) This geared potentiometer is available with internally mounted model series B2705 solid state limit switches. Two limit outputs are supplied with this option. Both outputs are open collector transistors that are arranged to sink current when the potentiometer wiper position exceeds the preset points. One output will turn on when the wiper is above the center position and beyond the first setpoint, the other output will turn on when the wiper is below the center position and beyond the second setpoint. The limit switch assembly must be ordered separately. When the limit switch is ordered with a potentiometer, Datatran will mount the assembly inside the potentiometer enclosure at no additional charge, if requested at the time of order placement.
- 5) All of the geared potentiometers are supplied without internal stops for continuous rotation.
- 6) The zero backlash gear option (suffix C) is not available with all gear ratios. Contact Datatran's Sales Department for details.

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