



### 1.1.4 DRIVE - MODEL T164 SERIES

Five drive current ratings are available, rated 5, 10, 20, 40, 60 A r.m.s. continuous per motor phase. All drives are configurable in either velocity or torque control mode. The drive outputs a synthesized variable frequency and variable amplitude three phase sinusoidal current for accurate control of motor speed and torque.

All drives include an internal switchmode power supply (SMPS) which generates drive logic power. This internal SMPS operates from a user supplied external 24 Vd.c. source. The external 24 Vd.c. allows control power to be maintained without high power energized.

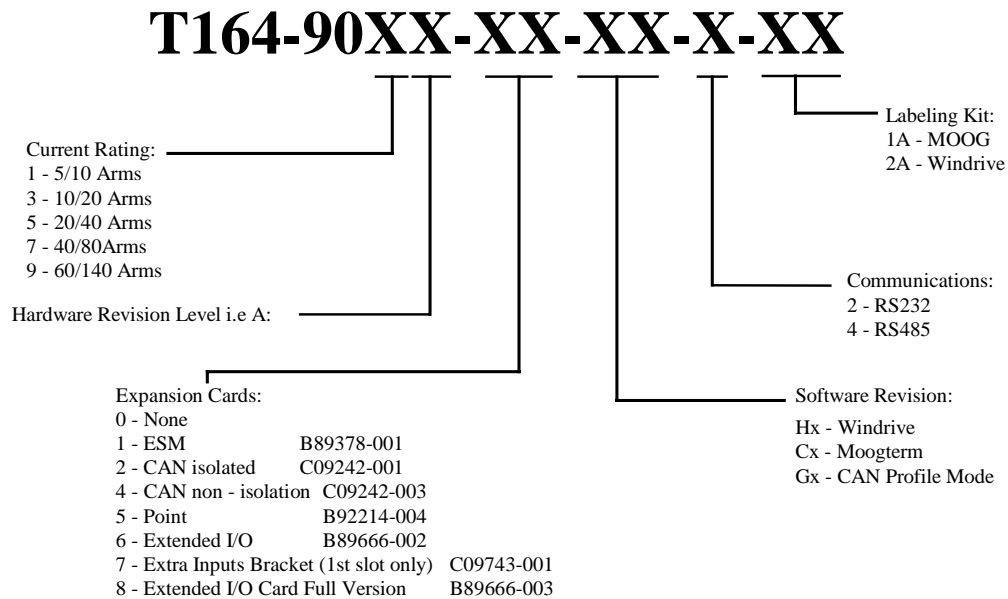
BASE MODEL NUMBER	CURRENT RATING CONT./PEAK A r.m.s.
T164-901	5/10
T164-903	10/20
T164-905	20/40
T164-907	40/80
T164-909	60/140

**TABLE 1-1 Model T164 Series Definition**

Several option cards are available for the T164 Series Drives; an Encoder Simulation Card, an Extended input/output (I/O) card, a Point Card, a CAN Interface Card and Input Brackets. The Encoder Simulation card, using rotor position data from the output of a resolver to digital converter, emulates a rotary incremental encoder. The output signals of the Encoder Simulation card are optically isolated. The Extended I/O card provides additional isolated input and output capability. The Point Card provides point-to-point position control that is sequenced by a User defined program. Discrete analog and serial interfaces are available to allow sense and control of external devices. Point provides a true stand alone single axis control system. CAN is a high speed serial interface used for communication of real time position feedback, command reference and status information. The Input Brackets option allows clockwise (cw) and counter clockwise (ccw) limit inputs, torque/velocity selection and auto/manual mode operation. Consult Moog for additional information concerning the option cards.

The complete model number describing a T164 Series drive utilizes a boxcar number system which is comprised of the base model number (FIGURE 1.2), followed by suffixes which designate the model revision, the option cards installed in option slots 1 and 2, and the drive software version. Contact your Moog Sales Representative for current details on the box car model number system.

The T164 is described in a "boxcar" system (Refer to FIGURE 1.2). Each option, revision, and model is described according to the following structure.



For the Expansion Cards:

The first digit equals first slot, second digit equals second slot, slot 1 should be used prior to using slot 2.

**FIGURE 1.2 T164-90X Boxcar System**