

Protective Circuits

Short Circuit Protection:

· phase-to-phase motor short

phase-to-ground motor short

Inrush Current Protection

Drive Overtemperature Protection

• trips at 75°C (157°F) internally

Undervoltage Protection

Motor Performance Specifications

Repeatability: +/- 5 arc seconds typical; unloaded motor, bi-directional motion

unioaded motor, bi-directional

Hysteresis: less than 2 arc minutes;

unloaded motor, bi-directional motion

Motor Velocity: 50 rps maximum, regardless of resolution

Environmental Specifications

 $\begin{array}{lll} \mbox{Operating Temperature:} & 0^{\circ}\mbox{C} - 50^{\circ}\mbox{C} \ (32^{\circ}\mbox{F} - 122^{\circ}\mbox{F}) \\ \mbox{Storage Temperature:} & -40^{\circ}\mbox{C} - 80^{\circ}\mbox{C} \ (40^{\circ}\mbox{F} - 176^{\circ}\mbox{F}) \\ \mbox{Humidity:} & 0 - 95\%, \ non-confensing \\ \mbox{Drive Weight:} & 1.2 \ pounds \ (0.6 \ kg) \\ \end{array}$

E-AC DRIVE Hardware Installation Guide

is available online in PDF format: http://www.compumotor.com (part number 88-020292-01)

Input/Output Specifications

INPUTS All inputs are optically isolated

STEP:

minimum pulse width: 200 nanoseconds maximum input frequency: 2MHz

maximum input frequency: 2MHz minimum turn on current: 6.5mA maximum supply current: 15mA

DIRECTION:

minimum setup time: 200 microseconds minimum turn on current: 6.5mA

minimum turn on current: 6.5mA maximum supply current: 15mA

RESET:

drive is in reset while input is active (high) minimum turn on current: 2.5mA maximum supply current: 30mA

SHUTDOWN:

drive is in shutdown while input is active (high) minimum turn on current: 2.5mA maximum supply current: 30mA

FAULT OUTPUT

Optically isolated; open collector/emitter output. Normally active (output turns off on a fault condition). To clear fault: cycle power or reset drive.

maximum collector current: 40mA maximum power dissipation: 40mW





E-AC Drive



Quick Reference Guide

Compumotor Division
Parker Hannifin Corporation
p/n 88-020290-01 B (effective April 9, 2002)



