Title: ACORN_rev4, ESTUN PRONET-E SERVO DRIVE
(See S14966.DWG for ESTUN PRONET)

Date: 210420 | Ver: 4 | Drawn by: CEM

Filename: S14965.DWG | Sheet 1 of 1

How to tell the difference between Acorn_rev2, Acorn_rev3 and Acorn_rev4
Acorn_rev2 has FIXED green screw terminal blocks
Acorn_rev3 has REMOVABLE green screw terminal blocks
Acorn_rev4 has LED indicators for the Inputs and Outputs

E-STOP CONTACTOR
COIL POWER/ACN A1 COIL A2
MOTOR POWER L3 T3, L2 T2, L1 T1

E-STOP SWITCH
(NORMALLY CLOSED)
E-STOP SIGNAL

ALM-RST: PIN 39
S-ON: PIN 14
/SIGN: PIN 33
/PULS: PIN 31
ALM+ : PIN 7

ALARM RESET

PRONET
L1 L2 L3 +1 +2 ⊖ L1c L2c B1 B2 B3 U V W G G
CN3 CN4 CN1 CN2

TO MOTOR/U
TO MOTOR/V
TO MOTOR/W
TO MOTOR/FG

CHASIS GROUND

MOTOR ENCODER CABLE

CONTROL CABLE

ALM-RST: PIN 39
S-ON: PIN 14
/SIGN: PIN 33
/PULS: PIN 31
ALM+ : PIN 7
DICOM: PIN 13
PPI: PIN 34
PGC+ : PIN 11
PGC- : PIN 12
ALM- : PIN 8

COM
+24VDC
ZriHomingAll

H1: IN5 IN6 IN7 IN8 24 IN
H2: ST1 DR1 EN1 COM ST2 DR2 EN2 COM
H3: ST3 DR3 EN3 COM ST4 DR4 EN4 COM
+24 HB

H4: 24 IN, IN4 IN3 IN2 IN1

H6
COM
Input 4
Input 3
Input 2
Input 1
Direction 4
Step 4
Direction 3
Step 3
Direction 2
Step 2
Direction 1
Step 1
Output 1
Output 4
Output 3
Input 5
Output 2
Chassis GND

P10
PIN 9 = +5VDC
PIN 8 = B
PIN 7 = A
PIN 6 = Z
PIN 5 = B\
PIN 4 = A\
PIN 3 = Z\
PIN 2 = COM
PIN 1 = N/C

H8: AN GND, AN OUT

ETHERNET
ACORN 190201

H9: CHASSIS COM COM +24VDC +24VDC

FROM SPINDLE ENCODER

SHIELDED ETHERNET CABLE FROM PC

Acorn CNC
PN:14445

H10 OUTPUT STATES 1 2 3 4 5 6 7 8
COM OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8 5V
GND IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8 VCC

E-STOP COIL POWER/ACH

RELAY BOARD
OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8
COM

ALARM RESET

COM
+24VDC

COM
+24VDC

COM

110VAC
BLK
WHT
GRN
YEL
BLK

MEANWELL RD-35B
L
N
⏚
V2 (+24 VDC) 1.0A
COM
V1 (+5 VDC) 2.2A

ACORN I/O	1	2	3	4
INPUTS			ZriHomingAll	
OUTPUTS	NoFaultOut			
ACORN I/O	5	6	7	8
INPUTS	DriveOK			EStopOK
OUTPUTS		DriveResetOut		

1. Set drive parameters to factory default values. See ProNet manual for "Parameter Settings Initialization"
2. Edit the following parameters:
   PN000 = 0110
   PN004 = 1000
   PN005 = 0010 for EMJ motor, 1010 for EMG motor
   PN100 = 0
   PN201 = 10000
   PN202 = 4096
   PN511 = 0005
3. Cycle power to the drive.
4. Run Acorn setup wizard and set Steps/Rev to 4096. Refer to ProNet manual for tuning.

E-STOP CIRCUITS ARE RED
OPTIONAL CONNECTIONS ARE BLUE
GROUNDS ARE GREEN
110VAC IS VIOLET