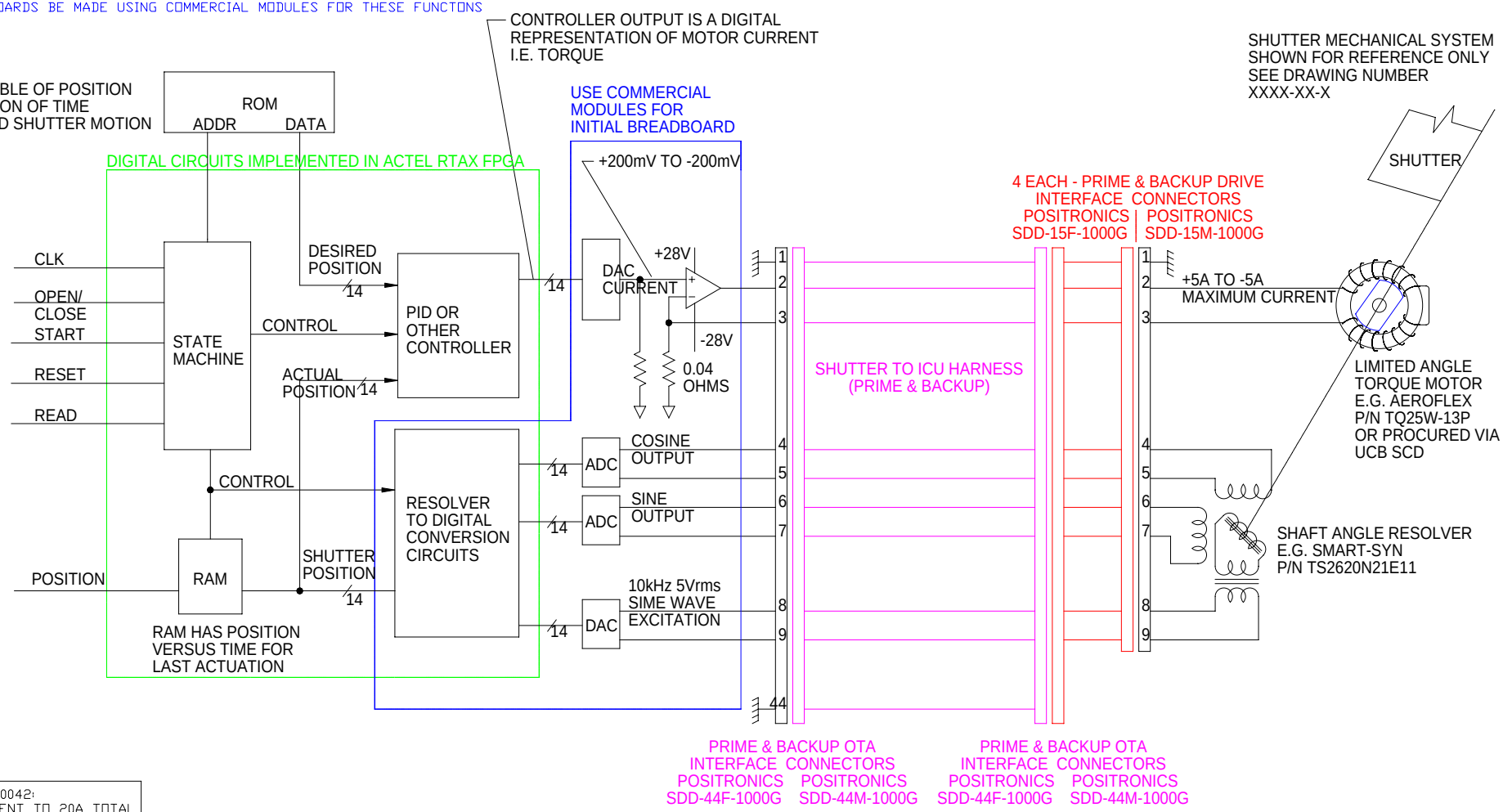
| REV | DESCRIPTION | DWG | CHECK | SYS E | M.A. | C.M. | DATE |
|---|---|---|---|---|---|---|---|
| A | REWORK HARNESSING CONCEPT | HDH | | | | | |
| B | | DHP | | | | | |

NOTES:

1) THIS DRAWING IS INTENDED TO SUPPORT DWG. NR. 00042-MW02 WHICH GIVES GENERAL REQUIREMENTS ON THE SNAP SHUTTER SYSTEM AND IN PARTICULAR TO SUGGEST A DESIGN APPROACH WHICH IS CONSISTANT WITH THE REQUIREMENT THAT ALL EEE PARTS BE CHOSEN FROM DWG. NR. 00044-ME02, SNAP MASTER EEE PARTS LIST
2) SNAP DESIGN DEVELOPMENT PHILOSOPHY IS TO MOVE TO FLIGHT USABLE TECHNIQUES, ALGORITHMS, SOFTWARE, AND PARTS AS EARLY IN THE VERSION DEVELOPMENT PROCESS AS POSSIBLE.
3) IN THE DEVELOPMENT OF BREADBOARD AND PROTOTYPE CIRCUITS, TO THE EXTENT POSSIBLE USE PARTS WHICH ARE EITHER FLIGHT TYPES OR THE COMMERCIAL VERSION OF THE PARTICULAR APPROVED PART TO BE USED IN THE FLIGHT SYSTEM
4) THE DRAWING SHOWS 14 BITS BEING CARRIED FOR MOST CONTROL VARIABLES. BREADBOARD CIRCUITS SHOULD BE CONSTRUCTED WITH JUMPER PLUGS TO ALLOW RESOLUTION TO BE EASILY CHANGED TO EVALUATE DIFFERENT NUMBERS OF BITS.
5) FOR THE CIRCUITS ENCLOSED IN THE GREEN LINES IT IS SUGGESTED THAT THE INITIAL BREADBOARDS BE MADE USING COMMERCIAL MODULES FOR THESE FUNCTONS




CHANGES NEEDED IN 00042:
1) CHANGE MAX CURRENT TO 20A TOTAL
2) MAYBE SUPPLY -28V TO MOTOR CONTROL BOARD
3) REQUIREMENT FOR MOTOR PROTECTION CIRCUIT?
4)

SNAP
UNIVERSITY OF CALIFORNIA AT BERKELEY
SPACE SCIENCES LABORATORY

TITLE: SNAP SHUTTER DRIVE ELECTRONICS REQUIREMENTS DEFINITION

FILE NAME:
DRAWN BY: H. HEETDERKS
DATE: 2005-06-24
DWG NO: XX
REV: B