NOTES
THE FIELD CONTROL MODULE IS DESIGNED TO REGULATE FIELD CURRENT
THUS CONTROLLING THE FIELD FLUX OF A DC MOTOR. THE FIELD CONTROL
UNIT SHOULD BE MOUNTED IN A SUITABLE ENCLOSURE.
REMOTE ADJUSTMENTS CAN BE MADE TO THE FIELD CURRENT VIA AN EXTERNALLY
DERIVED SETPOINT. THE SETPOINT CAN BE SET BY EITHER A POTENTIOMETER
OR A SUITABLE 0-10VDC (0 TO 100%) FIELD CURRENT ANALOG REFERENCE VOLTAGE.
The input of the current input (terminal 6) is 50K.

LOSS OF FIELD IS DETECTED AND AN INDICATION IS PROVIDED BY A VOLT-FREE
RELAY CONTACT.

THE UNIT CAN BE CONFIGURED TO REMOTELY ENERGIZE THE FIELD VIA A
REMOTE CONTACT CLOSURE.

THE FIELD VOLTAGE AVAILABLE TO ACHIEVE FULL CURRENT IS LIMITED BY THE
AC INPUT VOLTAGE. THE DC VOLTAGE AVAILABLE ACROSS THE OUTPUT OF THE
CONTROLLER WILL BE APPROXIMATELY 0.9 X THE SUPPLY VOLTAGE.
EXAMPLE: WITH A 380VAC SUPPLY THE MAXIMUM FIELD VOLTAGE AVAILABLE WILL
BE 380VAC X 0.9 = 342VDC

DASHED LINES SHOW CUSTOMER CONNECTIONS, ALL DEVICES
OTHER THAN FIELD CONTROL MODULE IS SUPPLIED BY THE CUSTOMER.

IF AN SP1070F FIELD WEAKENING CONTROL MODULE IS USED THE OUTPUT
Should be connected directly to terminals 6 (CURRENT INPUT) and
terminal 5 (signal common).

IF A POTENTIOMETER IS USED TO SET FIELD CURRENT CONNECT AS SHOWN
IN THE ACCOMPANYING DIAGRAM.

MINIMUM FIELD CURRENT IS SET VIA AN ON BOARD MIN FIELD POTENTIOMETER.
The on board pot value is 5K THUS WITH MIN FIELD TURNS FULLY CW
THE FIELD CONTROL AS SET WITH A 10K POT GIVES 3.1 CONTROL.

SET-UP
SET DIP SWITCHES AND ADJUST MAX CURRENT POTENTIOMETER PER MOTOR
FIELD CURRENT NAMEPLATE INFORMATION AS REQUIRED.

SET SWITCH 1 AND SWITCH 2 FOR REQUIRED CURRENT AND
FINDADJUST CURRENT USING THE MAX CURRENT POTENTIOMETER.

SET SWITCH 3 AND SWITCH 4 AND ADJUST MAX SPEED POTENTIOMETER FOR
NAMEPLATE FIELD VOLTAGE PLUS 20%

SWITCH 5 OFF, SWITCH 6 ON, SWITCH 7 OFF, AND SWITCH 8 ON

WARNING
THIS DRAWING IS NOT INTENDED TO BE USED WITHOUT
THE INSTALLATION AND OPERATION MANUAL FOR THE 3200i
DRIVE.

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