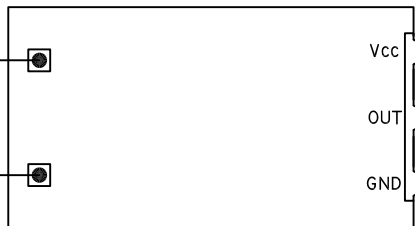
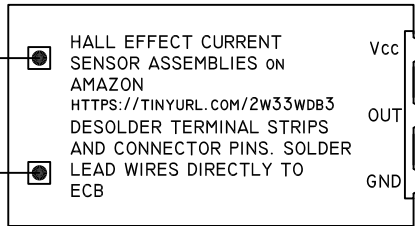
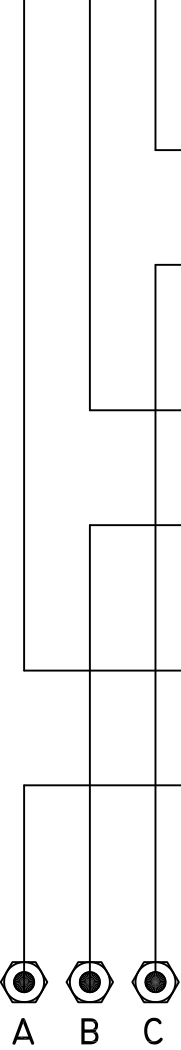


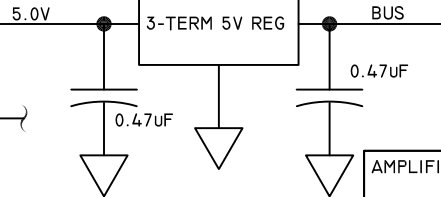
FROM 3-PHASE DYNAMO

A B C



A B C

TO RECTIFIER/REGULATOR



NOTES:

1. THE ACS712-20 HALL DEVICES PRODUCE APPROX 100MV/A OF EXCITATION CURRENT. A ONE AMP AC SIGNAL IS APPROX 2.8A(PK-PK). THIS TRANSLATES TO 280 MV(PK-PK) AT THE BASE OF THE FIRST TRANSISTOR. FIRST STAGE PUTS A LITTLE GAIN ON THIS AND 'OVERDRIVES' THE SECOND STAGE TO APPLY A 50% DUTY CYCLE DRIVE ON THE ORDER OF 12MA TO THE LED. AN ILLUMINATED LED ANNUNCIATES CURRENT DETECTED IN THE ASSOCIATED DYNAMO PHASE WINDING.

