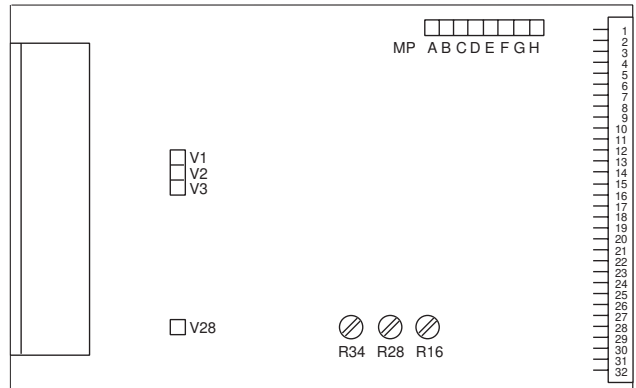


DESCRIPTION

The SAUER-SUNDSTRAND MCE123A Auxiliary Controller provides, in open loop, a "reverse proportional" control signal to the Electrical Displacement Control (EDC). This signal is proportional to the measured frequency input to the Controller from a speed sensor.

The Controller is designed so that with increasing speed, the output is reduced.



FEATURES

- Easy adjustment
- Available with enclosure
- Reverse polarity and short circuit protected
- Withstand vibration and shock

ORDERING INFORMATION

Controller	Supply voltage [V _{DC}]	Frequency range [Hz]	Output current [mA]	Id. No.
MCE123A1001	24	200 - 700	60 - 100	303 750
MCE123A1002	24	253 - 380	30 - 100	710 962

TECHNICAL DATA

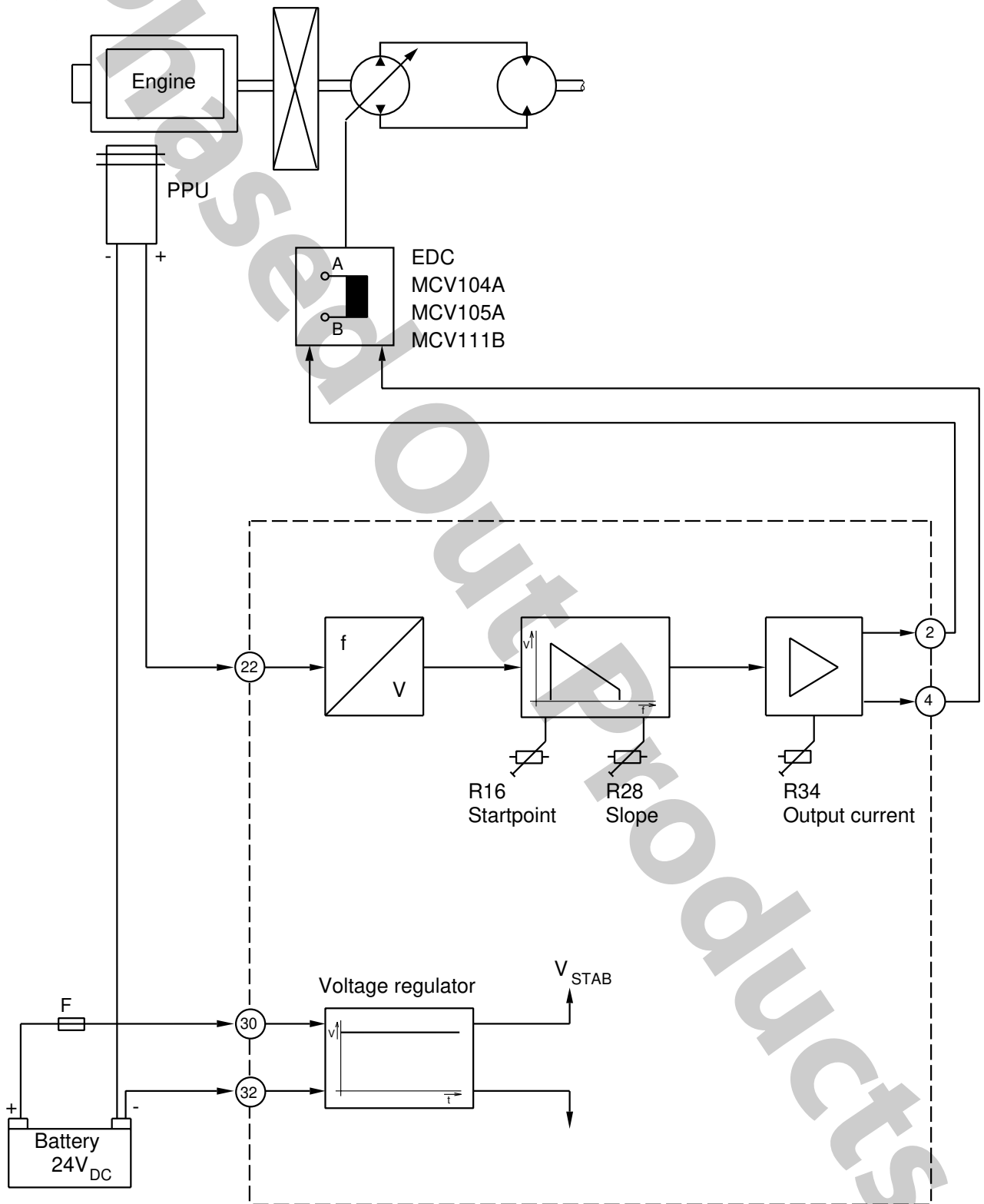
SUPPLY VOLTAGE
24V_{DC}

RIPPLE
≤ 20%

OUTPUT CURRENT
see ordering information

FREQUENCY RANGE
see ordering information

BLOCK DIAGRAM



S00425

THEORY OF OPERATION

The electronic MCE123A converts the frequency signal to a proportional DC voltage.

Depending on an adjustable control characteristic (see figure 1) the output current value is "reverse proportional" to the frequency signal.

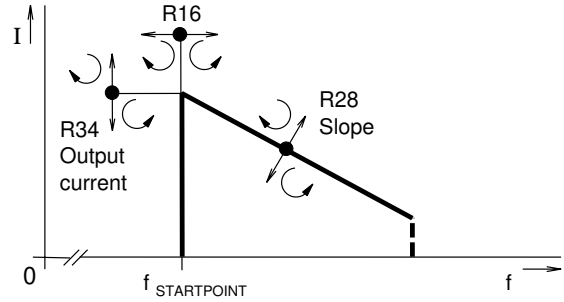
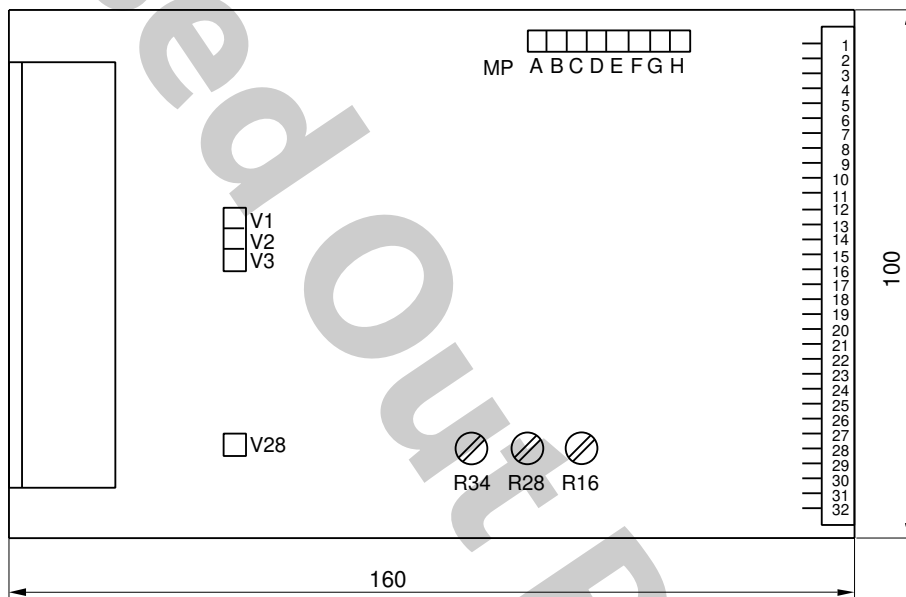


Figure 1

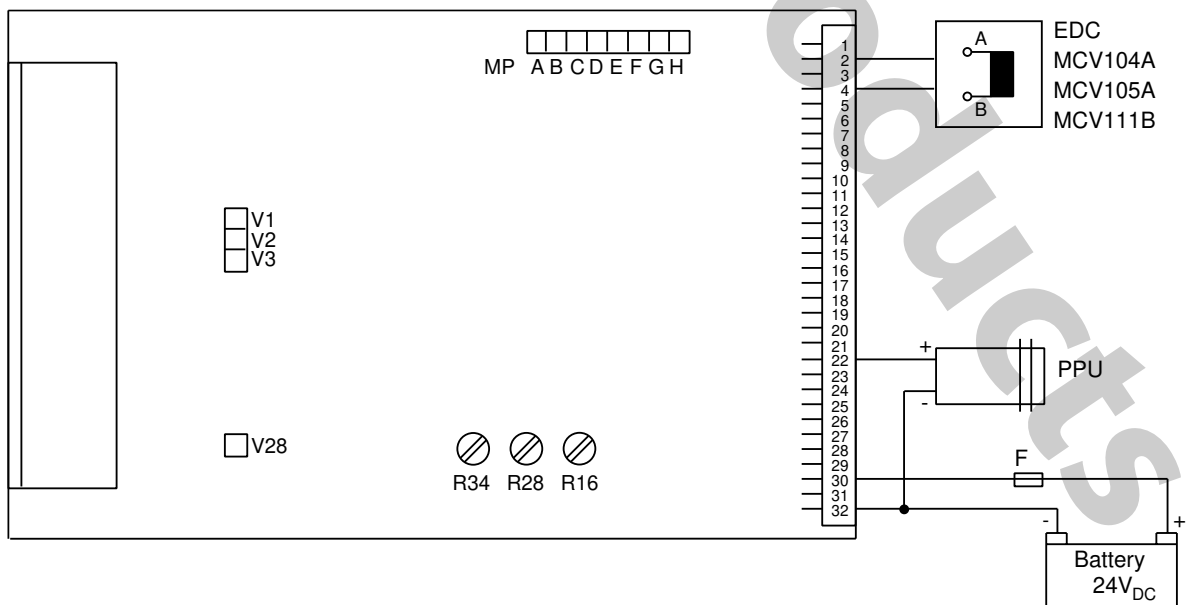
S01748_37e

DIMENSIONS



S00279

CONNECTION DIAGRAM



S00374