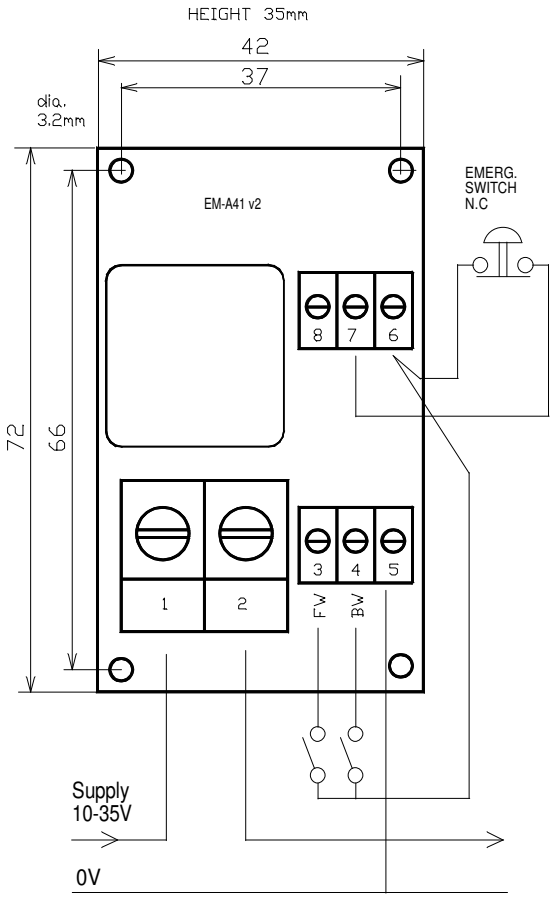


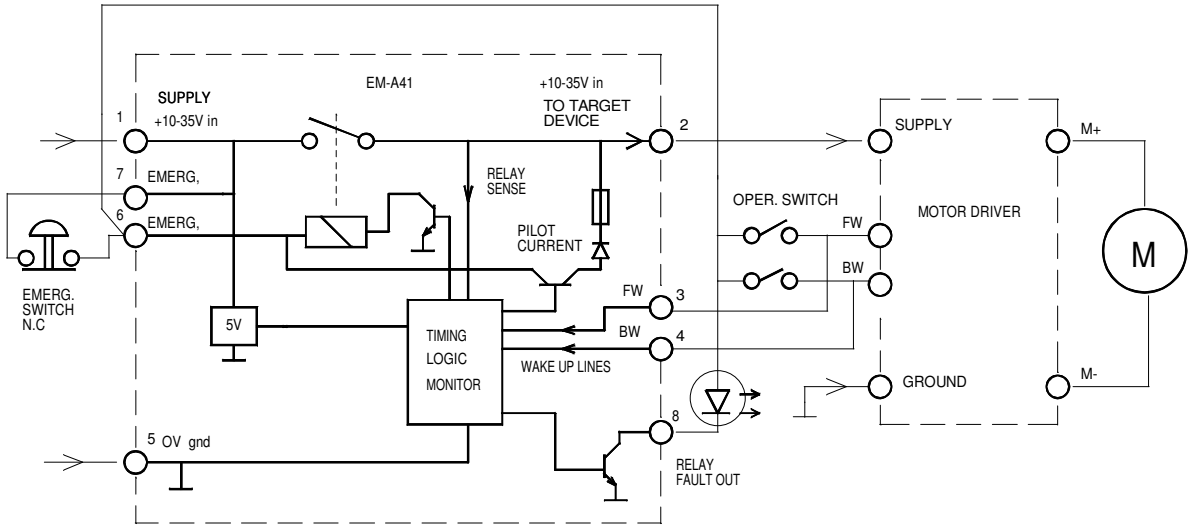
FEATURES

-High current handling capacity
-Low idle current
-Hardware emergency switch off
-Switch on with pilot current
-Compatible for capacitive loads
-Din rail mountable
-Relay faulty output
-Compatible with EM- motor drivers
-Recuces power on current surge

EM-A41 is front end card for DC motor drivers. It can be used when needed low idle current, main switch or emerg. circuit The one most important feature of this card is the suitability for capacitive loads i.e many electronic devices The capacitive load is normally poison for relay contacts, because it generates high inrush current which eats relay contacts. In this device the pilot circuit charging the capacitances before relay switch on and this way reduces inrush current markable. Also this device reduces current surge when system power switch on. The Emergency shutdown has made with hardware circuit and it has highest priority. The device has also monitor circuit for own relay to detect possible relay stuck. Device activates with wake up lines BW or FW and it returns to sleep mode in 30seconds if this lines are not active.

TECHNICAL DATA

Supply voltage 10-35V
Motor current cont. max 30A (Ta<50℃)
Motor current peak max 40A (10s.)
Voltage drop 0.2V at 30A
Idle current 0.7mA (in sleep mode)
Switch on time 50ms
Switch off time 5ms
Sleep mode 30s after last command
Recom. emerg switch min. 1A (N.C.)
Wake up 4-35V to bw or fw lines
Wake up line impedances 47kohm
fault out NPN max 50mA, max. 30V
Connectors supply 6mm²
Connectors control 1.5mm²
EMC EN-50081-2 & EN-50082-2 (industrial)
Weight 55g
Operating temp (Ta) -40...60℃



SPECIFICATIONS	CONTRACT NO.	DATE	COMPANY ELECTROMEN OY
	DRAWN BY: K.M.K	08.07.22	
	CHECKED BY:		TITLE DATASHEET SUPPLY REDUCE AND EMERG. RELAY EM-A41
	DESIGNED BY:		
	DESIGN ACTIVITY		SIZE A4 / FSCM NO. / DWG NO. / FILE NAME a41br1
	CUSTOMER		SCALE 1mm = 1mm / DATE / SHEET 1 of 1