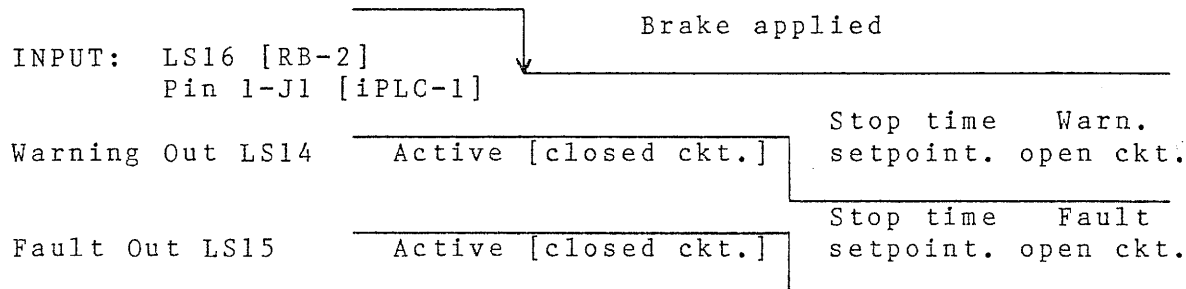


B1 iPLC-1 OPTION B BRAKE MONITOR

Option B measures and displays stopping time of a press brake on each and every stop cycle. A warning and fault output is provided to signal overlimit conditions and/or control machine operation, if stopping time exceeds the programmed setpoints. Option B dedicates 3 outputs- LS14, LS15 and LS16 for brake monitor functions.

Note: See American National Standards Institute [ANSI] Standard B11.1 or the Federal Register section 1910.217 for information about power press guarding.



B1.1 KEYBOARD AND DISPLAY DESCRIPTION

<div><div>B</div><div>8</div></div>	B KEY This key is used to display the brake stopping time [brake monitor] 0 to 999 mSec., and to program the brake warning and brake fault limit setpoints. [BR. MON. X.XXX], [BR. WARN X.XXX], [BR. LIM X.XXX].
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B1.2 PROGRAM BRAKE LIMIT SETPOINTS

You want to program a warning limit at 230 mSec. and a fault limit at 260 mSec.

PRESS	DISPLAY	COMMENTS
*		Must be in program mode. See 12.1 or 12.3 in iPLC users manual.
[B]	[BR.MON. 0.XXX]	Brake Monitor display
[B]	[BR.WARN 0.XXX]	Brake warning setpoint.
[2,3,0],[ENTER]	[BR.WARN 0.230]	LS 14 will turn OFF when stopping time \geq .230 Sec.
[B]	[BR.LIM 0.XXX]	Brake fault setpoint
[2,6,0]	[BR.LIM 0.260]	LS 15 will turn OFF when stopping time \geq .260 Sec.

B1.3 BRAKE FAULT DISPLAY and FAULT CLEARING

If the Brake Limit [BR.LIM 0.XXX] is exceeded, LS 15 will turn OFF. If the display is monitoring stopping time [BR.MON 0.XXX], when the limit is exceeded, the display will change to [BRK. FAULT]. If another function is being displayed while a fault occurs, the display will not change.

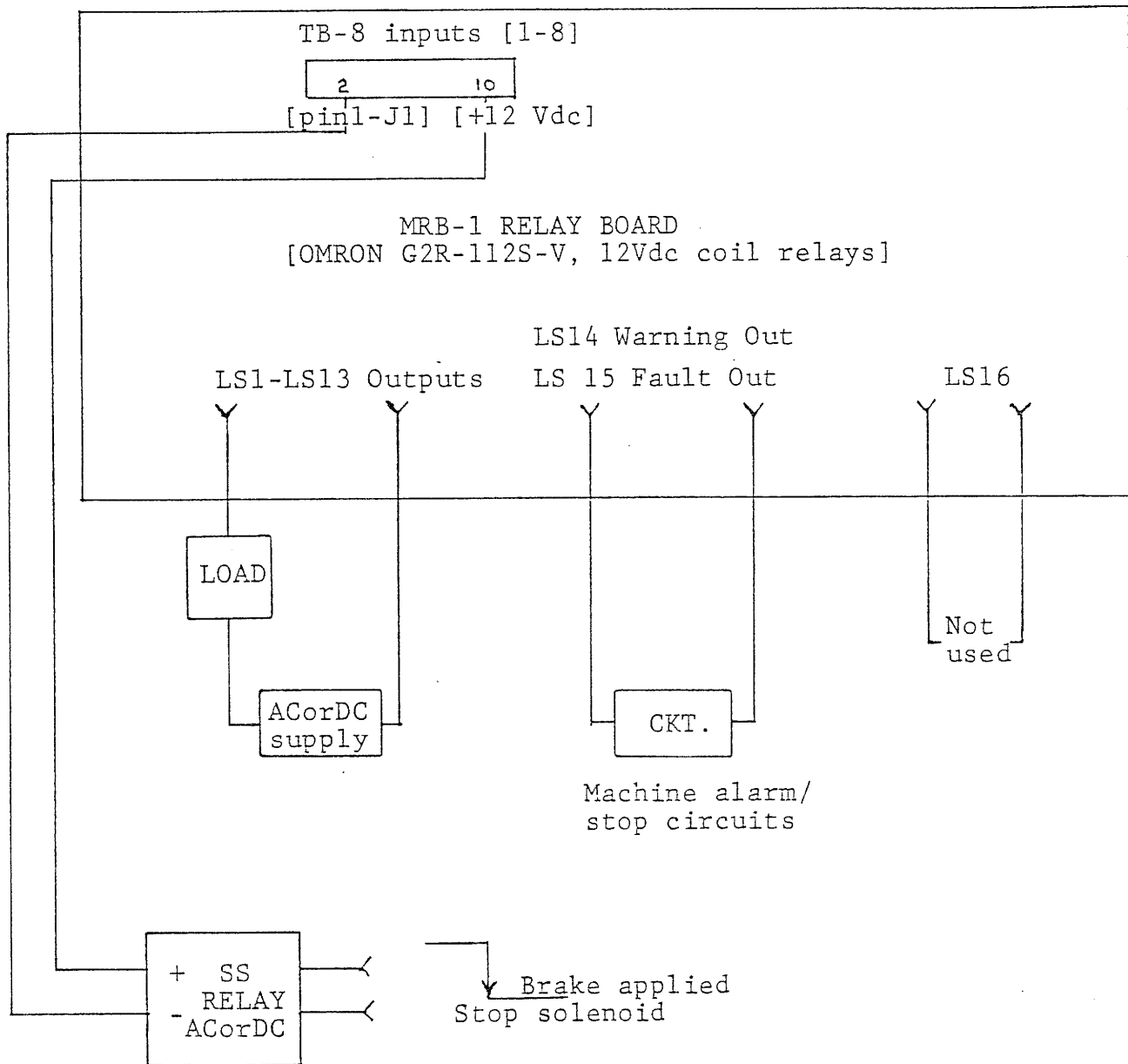
To clear a Brake Fault:

PRESS	DISPLAY	COMMENTS

*		Must be in program mode. See 12.1 or 12.3 in iPLC users manual.
[B]	[BRK. FAULT]	Brake fault display.
[CLEAR]	[BR.MON X.XXX]	Brake fault cleared. Brake Monitor display shows fault time, if less than 2 Sec.

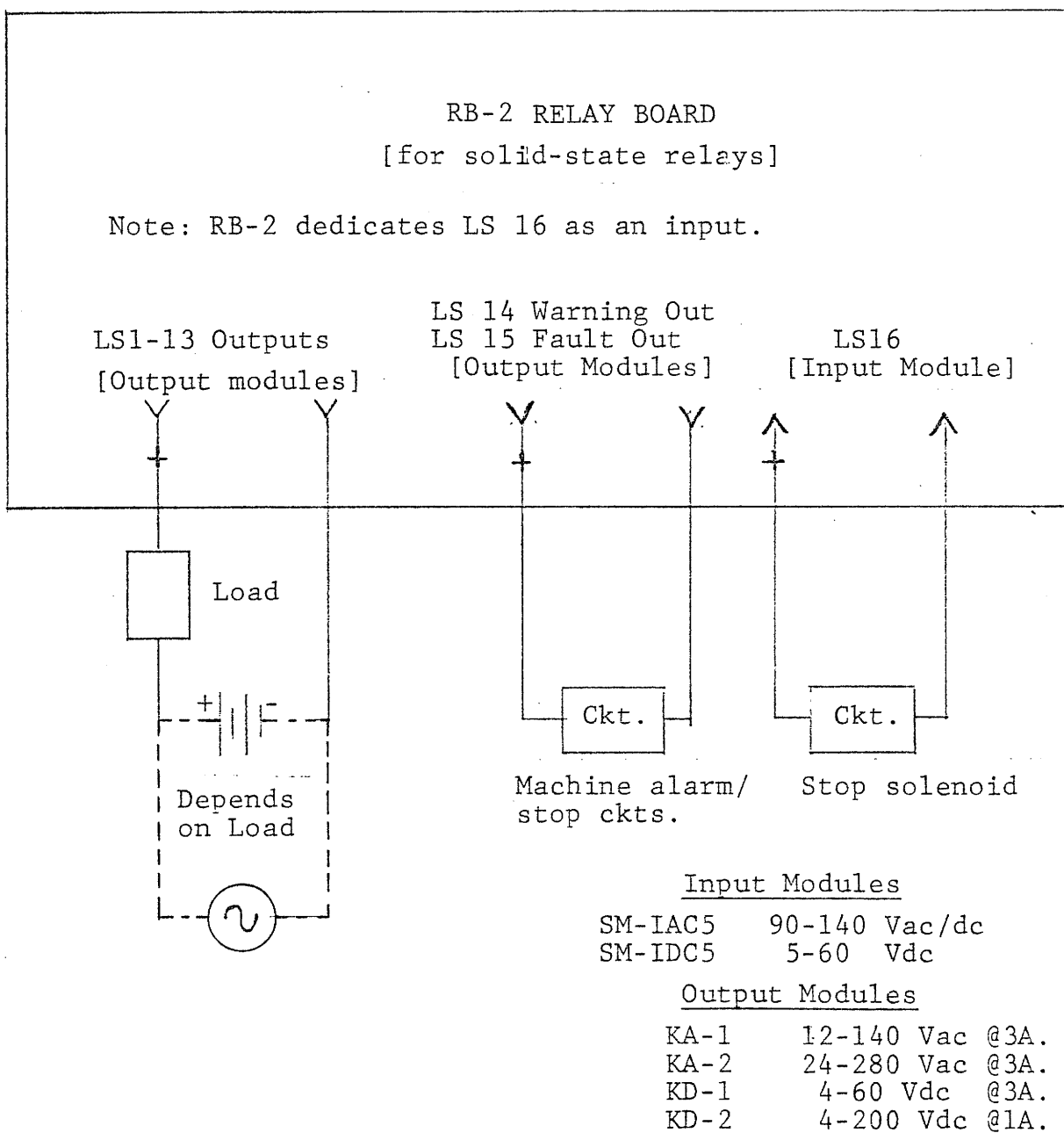
TYPICAL MRB-1 RELAY BOARD CONNECTIONS

[Requires external solid-state relay]



Note: See print B1014 for additional details.

TYPICAL RB-2 RELAY BOARD CONNECTIONS



Note: See print C1002 [RB-1] for additional details.