ARMSTRONG

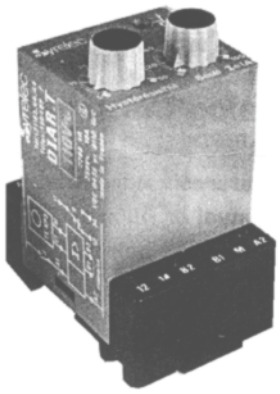
FILE NO.:	62.77
DATE:	MAY 1, 1996
SUPERSEDES:	NEW
DATE:	NEW

PUMP MOTOR CURRENT RELAY

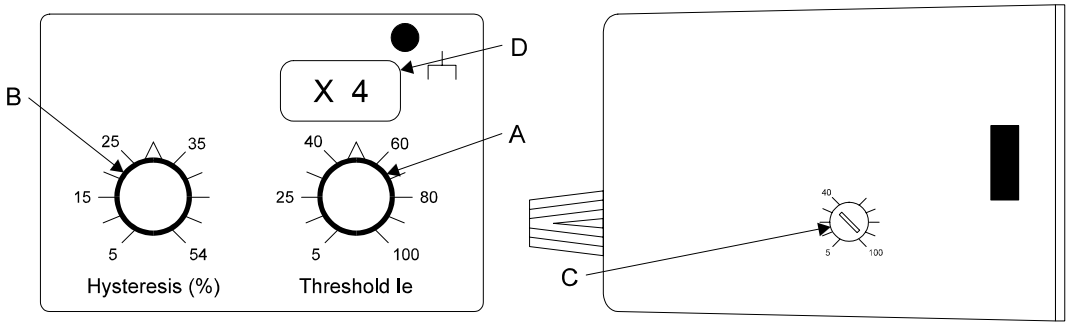
ADJUSTABLE CURRENT SENSING RELAY

Description

Each sensor is a solid-state AC switch which turns on when the pump current level exceeds the value set on the adjustable potentiometer. Adjustable pump stop control (hysteresis) and start-up time delay is provided to limit short cycling.



CURRENT SENSING RELAY ADJUSTMENT



STEP 1

Pump start current value (cut in) Use threshold adjustment “A” scale graduated from 5 AMPS to 100 AMPS. Each graduation equals approx. 2 AMPS.

Current level above 5 AMPS (No sticker “D”)
Example: For pump to cut in at 40 AMPS, adjust “A” to 40

Current level below 5 AMPS (Sticker “D” in place)
Example: For pump to cut in at 25 AMPS, adjust “A” to 25 x 4 = 10

STEP 2

Pump start current value (cut out)
Use hystresis adjustment “B”

Scale graduated from 5% to 50% of value set at “A”
Each graduation equals approx. 1.25%

Example: Pump to cut out (stop) at 35 AMPS (cut in 40 AMPS)
Difference in current: 40 AMPS - 35 AMPS = 5 AMPS
Difference in % of “A”: 5 AMPS/40 AMPS x 100% = 12.5%
Adjust “B” to 12.5%

STEP 3

Time delay on power up prevents nuisance signal.
Start current scale graduate from 0.1 sec. to 10 sec.
Factory set to 5 seconds.
If desired adjust to desired value.

Note: *An amprobe type ampmeter is suggested for the fine tuning. Clamp amprobe in the power circuit of the running pump*.

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