



The **Electro "D"** range of control and timing devices are compact modular units for easy introduction into standard panels and/or distribution boards. They mount directly onto DIN rail and align with standard miniature circuit breakers (MCB's).

- Compact DIN rail mounting: (H) 92 x (W) 36 x (D) 64 mm - (2 modules wide)

type	supply voltage*	phase	function	description
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Advanced pump protection relay

Advance pump protection relay to safeguard against damage to borehole pumps. The unit is easily calibrated and then monitors all important pump characteristics.

- Over/under current protection
- Running dry restart delay/over current retires
- Over/under voltage protection (with phase rotation on 3 phase units)

DPP1230A	230 VAC	single	pump relay	pump protection relay
DPP3400A	400 VAC	three	pump relay	pump protection relay
DPP4400A	400 VAC	three	pump relay	as above with adj./function selection

Phase failure/reversal relay (sequence and imbalance)

Phase failure / reversal monitor for monitoring three phase supply voltage. The unit is ideal for protection against phase reversal, phase loss and phase imbalance.

DPF1110A	110 VAC	three	failure relay	failure/reversal relay
DPF1400A	400 VAC	three	failure relay	failure/reversal relay
DPF1/K400A	400 VAC	three	failure relay	failure/reversal relay with adj.
DPF1525A	525 VAC	three	failure relay	failure/reversal relay
DPF1/N400A	400 VAC	three	failure relay	as above with neutral
DPF1/K525A	525 VAC	three	failure relay	failure/reversal relay with adj.

Voltage window comparator + phase failure

Over/under voltage monitoring/reversal.

- Delays : No delay, startup delay 10 sec, 180 sec recovery delay, reaction delay 10 sec

DVW1230A	230 VAC	single	comparator	electronic timer
DVW3110A	110 VAC	three	comparator	electronic timer
DVW3400A	400 VAC	three	comparator	electronic timer
DVW3525A	525 VAC	three	comparator	electronic timer
DVW3N400A	400 VAC	three	comparator	as above with neutral

Voltage monitor

Monitors a separate voltage than supply voltage.

- Delays : No delay, startup delay 10sec, 180 sec recovery delay, reaction delay 10sec

DVM400A-230A	230 VAC	-	400 VAC monitoring	voltage monitor device
DVM024D-24A	24 VDC	-	24 VAC monitoring	voltage monitor device
DVM30MV-30MV	10 - 30 VDC	-	10 - 30 VDC monitoring	voltage monitor device

Current monitor

Over or under current monitoring.

- Delays : No delay, startup delay 10sec, 180 sec recovery delay, reaction delay 10 sec

DCM5230A	230 VAC	can interface with 5A CT		current monitor device
DCM5400A	400 VAC	can interface with 5A CT		current monitor device
DCM5024D	24 VDC	can interface with 5A CT		current monitor device
DCM15230A	230 VAC	direct monitor up to 15 A		current monitor device

Current window comparator (over and under current monitoring)

Current window comparator for monitoring current between two levels.

- Delays : No delay, startup delay 10sec, 180 sec recovery delay, reaction delay 10 sec

DCW5230A	230 VAC	can interface with 5A CT		current window comparator timer
DCW15230A	230 VAC	direct monitor up to 15 A		current window comparator timer

Load shed relays

Load shed relay featuring high resolution analog converter to produce precise switching levels. The relay monitors current consumed and switches unnecessary load off.

DLS230A	230 VAC	1 circuit	16A direct conn.	load shed relay
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* Other voltage options available on request.