



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

DPP1*	single phase pump protection relay	16A SPDT
DPP3*	three phase pump protection relay	16A SPDT
DPP4*	three phase pump protection relay (with adjustment /function selection)	16A SPDT

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.

DPF1*	failure/reversal relay	10A SPDT
DPF1/K*	failure/reversal relay with adjustment	10A SPDT
DPF1/N*	failure/reversal relay with adjustment and neutral	10A SPDT

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

DVW1*	single phase electronic timer	10A SPDT
DVW3*	three phase electronic timer with reversal	10A SPDT
DVW3N*	three phase / neutral electronic timer with reversal	10A SPDT

Voltage monitor

Monitors a separate voltage than supply

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

DVM/ ♦♦♦	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>4-40V</td> </tr> <tr> <td>40-400V♦</td> </tr> </table>	4-40V	40-400V♦	voltage monitor device	10A SPDT
4-40V					
40-400V♦					

♦ Other voltages available on request

Frequency monitor

Monitors frequency of supply.

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

DFM*	frequency monitor device	45 - 55Hz	10A SPDT
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Current monitor

Over or under current monitoring.

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

DCM**	current monitor device	can interface with 5A CT	10A SPDT
DCM15**	current monitor device	direct monitor up to 15 A	10A SPDT

Current window comparator over and under current monitoring

Current window comparator for monitoring current between two levels.

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

DCW**	current window comparator timer	can interface with 5A CT	10A SPDT
DCW15**	current window comparator timer	direct monitor up to 15 A	10A SPDT

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.

DLS**	load shed relay	1 circuit	16A SPDT
DL3**	load shed relay	3 circuits NO	1 x 16A / 2 x 6A SPDT
DRLS**	load shed relay	1 circuit with real time clock	16A SPDT

* Voltage: 110 VAC, 230 VAC, 400 VAC, 525 VAC

** Voltage: 12 VAC, 24 VAC, 48 VAC, 110 VAC, 230 VAC, 400 VAC, 525 VAC
12 VDC, 24 VDC, 48 VDC (other voltages available on request)