

Drive Control Unit

Advanced system control for motor and drive systems

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Drive Control Technology

TMEIC's Drive Control Unit (DCU) helps avoid CapEx and reduces OpEx. By taking over the functions of a programmable logic controller (PLC) and a power quality meter (PQM), your TMEIC drive can now seamlessly disconnect after motor starting bringing energy savings, ease of maintenance, and power factor correction. Its enhanced protection and power quality metering capability give information needed to optimize maintenance and root causes of energy loss.

- PLC Capability for Synchronous Capture
- Drive Power Quality Metering
- Fault History Extension
- Motor Thermal Overload Protection

IO Component	Specifications
Relay Outputs 1-6	Form C contacts 250 VAC 10 Amps or 30 VDC 2 Amps
High Speed Digital Outputs 7-8	Sinking configuration only 50 mA at 60 VDC max PWM capable to 10 kHz
Analog Outputs 1-2	0 to 10 VDC or 0 - 20 mA with 500 Ohm load
Digital Inputs 1-8	24 VDC external supplied or internal by jumper selection
Analog inputs 7-8	-10 VDC to +10 VDC or -20 mA->20 mA
RTD Inputs 12	PT100 or PT1000, 3-wire -40 °C to 180 °C range
CT Inputs 2 Phases	±12.5 Amps DC or AC peak absolute maximum. ± 5 Amps nominal
PT Input 3 Phases	120 VAC RMS
CANbus	125 kbps baud rate default, 250 and 500 supported On board termination resistor supplied (configurable with SW2)
Power Input	120 VAC ±10%, 50-60 Hz, 0.2 Amps or 24 VDC @ 20 W
PQM Analog Inputs	± 12 Volts peak, high impedance
Ethernet Jack	100 Mbps
SFP Cage	1 Gbps connection with fiber or copper adapter
Dimensions (LxWxH)	10 x 4.5 x 3 in

TMEIC Corporation Americas | Roanoke, Virginia | Houston, Texas | WWW.TMEIC.COM

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