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IR-160.51E

CONTROL EQUIPMENT

TQD TEMPERATURE CONTROLLER



Din format 96x96 mm depth 78 mm.

Digital display..

Each type of controller include a Thermocouple Input (NiCrNi Type K) and Thermocouple break detection..

Voltage 230V + 10% - 15% 48-62 Hz . 3,5 VA

Model	Output
TQD 110 A	PID Control Strategy 1 closer 250 V AC max. 5 A
TQD 120 A	PID Control Strategy 12V biestable ouput max 20 mA
TQD 290 A	PID Control Strategy 0-10V DC continuos Output max 20 mA

TC 303 TEMPERATURE CONTROLLER



Din format 96x96 mm depth 78 mm..

Universal Microprocessor controller

Programmable Input as Pt 100 Thermocouple (J,K,S) 0...20 mA, 4...20 mA. 0...10Vcc

Range: depending on the input signal.

Up to 3 output relays and voltage outputs for SSR or thyristor (0 .. 10V)

RS 485 communication Chance

Voltage 230V + 10% - 15% 48-62 Hz . 3,5 VA

Model	Description
TC 303	Universal Microprocessor controller

SQER PULSE GENERATOR



Din format 48x48 mm depth 120 mm...

Pulse Generator with the following features:.

Output Relay 250 V AC max. 2 A + Output 18 V DC max. 40 mA 2 Hz

Range 0-99 %

Led indicator

Terms of 0 ... 50 ° C / 75% humidity non-condensing

Voltage 24V ac/cc +6% -15% 48 / 62 Hz

Reverse polarity protection

Noryl SE1 GFN2 box self-extinguishing, black

Protection against vibrations 40.046 DIN IEC 68-2-29

Model	Description
SQER	Pulse generator

PT1 POTENTIAL SEPARATOR MODULE



Device for decoupling of thermocouples and controllers in heating arrays with multiple heating zones

Dmensions 100 X 50 X 60 mm Mounting, on 35mm mounting rails

Input / output voltage 0 – 10 Vdc

Model	Description
PT 1	Potential separator module

HCC-05 CURRENT MONITOR

Heating current and heating circuit watchdog module for mounting-rail installation.

The HCC-05 watchdog module has been designed for installation in a switch cabinet and could be installed so that it is protected from moisture and excessive contamination from dirt.



Auxiliary voltage	24 Vdc \pm 25% (polarity reversal protection installed) 18 Vac \pm 20%
Current consumption	25 mA (without alarm load)
Line frequency	50 / 60Hz
Current range	1 a 50A electrically isolated from the auxiliary voltage
Monitoring set-point value	comp. st-point value electrically isolated from the auxiliary voltage
Monitoring Window	\pm 2% of the current setting
Compensation	1% of the current setting
Operating range	Current monitor: 4 - 100% Heating circuit monitor 5 - 95%
Cycle time	1 s
Bistable control input	electrically isolated from the auxiliary voltage Switch-on level 4 – 35Vdc max. 4,7 mA Switch-off level 1Vdc (polarity reversal protection installed)
Alarm output 1	Auxiliary voltage typically 20Vdc max. 100 mA dc sustained short-circuit proof transistor output, alarm = High (parallel connection possible)
Alarm output 2	Diode decoupled
Indicator element	3 leds, green, yellow, red
Line compensation	230V ac
Storage temperature	-20...+80 °C
Operating temperature	0 ...+60 °C
Degree of protection	DIN 40050 - IP 20
Interference immunity	complies with DIN – VDU 0843
Dimensions	70 x 50 x 103 mm
Housing	ABS
Weight	130 g
Installation	via 2 holes according to DIN 46121, o Guía DIN

PCU 60 THYRISTOR FOR POWER CONTROL

Suitable for control of resistive loads.

Since the load voltage is started at zero sinusoidal voltage yield, there are no harmonics or dummy loads.

The numerous possibilities of thyristor control allow a wide range of applications in infrared heating technology.



Electronic voltage switch zero	RM1A48D75 / A
Operating Voltage	24... 480 V ca
Repetitive Peak State of Voltage	1400 Vss
Operating Frequency	47 - 63 Hz
Thermal intensity without additional cooling	25 A
Thermal intensity with additional cooling	60 A
The leakage current in the off position	15 mA
Insulation voltage	4000 V
Insulation Resistance	10 exp. 10 Ohm
Thyristor Gate Control	4,5 ...32 V cc
Rank	0..100%