

## ELECTRIC HEATING CONTROLLER FOR DIN-RAIL MOUNTING, 3-PHASE, 210...415 V, 25 A

For control of electric heating coils or radiators. The controllers pulse the whole load on/off and utilise time-proportional triac control. Automatic control function adaptation, P- or PI-control. The controllers can also be set to be controlled by an external 0...10 V DC signal.



CTR25

Technical data	
Supply voltage	3-phase, 210255 / 380415 V AC, automatic adaptation
Ambient temperature	040 °C
Mounting	DIN-rail
Dimensions (WxHxD)	195 x 200 x 95 mm
Protection class	IP20
P-band	Supply air temperature control: 20 K, fixed Room temperature control: 1.5 K, fixed
I-time	6 min, fixed
Pulse period	660
Load	25 A
Output	25 A, 3 x 400 V AC, 17 kW (3 x 230 V, 10 kW)
Inputs	
Setpoint	030 °C (the sensor determines the range)
Sensor inputs	2, main and max./min. limiting sensors (NTC sensor).
Control signal	010 V DC

Article	Description	External 010 V DC control signal option
CTR25	Electric heating controller with temperature control	X

Technical data

To control larger electrical loads, see the step controllers SC4 and SC6.

## ELECTRIC HEATING CONTROLLER FOR DIN-RAIL MOUNTING, 3-PHASE, 210...415 V, 40 A

For control of electric heating coils or radiators. The controllers pulse the whole load on/off and utilise time-proportional triac control. Automatic control function adaptation, P- or PI-control. The controllers can also be set to be controlled by an external 0...10 V DC signal.



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Supply voltage	3-phase, 210255 / 380415 V AC, automatic adaptation
Ambient temperature	040 °C
Mounting	DIN-rail
Dimensions (WxHxD)	195 x 220 x 95 mm
Protection class	IP20
P-band	Supply air temperature control: 20 K, fixed Room temperature control: 1.5 K, fixed
I-time	6 min, fixed
Pulse period	660 s
Load	40 A
Output	40 A, 3 x 400 V AC, 27 kW (3 x 230 V, 16 kW)
Inputs	
Setpoint	030 °C (the sensor determines the range)
Sensor inputs	Two, main and max./min. limiting sensors (NTC sensor).
Control signal	010 V DC

Article	Description	External 010 V DC control signal option
CTR40	Electric heating controller with temperature control	X



To control larger electrical loads, see the step controllers SC4 and SC6.

## ELECTRIC HEATING CONTROLLER FOR DIN-RAIL MOUNTING, 3-PHASE, 400 V, 80 A

For control of electric heating coils or radiators. The controllers pulse the whole load on/off and utilise time-proportional triac control. Automatic control function adaptation, P- or PI-control. The controllers can also be set to be controlled by an external 0...10 V DC signal.



CTR80

Supply voltage3-phase, 400 V AC ±10%Ambient temperature040 °CMountingDIN-railDimensions (WxHxD)195 x 220 x 105 mmProtection classIP20P-bandSupply air temperature control: 20 K, fixed Room temperature control: 1.5 K, fixedI-time6 min, fixedPulse period6120 sLoad80 AOutput80 A, 3 x 400 V AC, 55 kWInputsSeptointSeptoint030 °C (the sensor determines the range)Sensor inputsTwo, main and max./min. limiting sensors (NTC sensor).		
Ambient temperature040 °CMountingDIN-railDimensions (WxHxD)195 x 220 x 105 mmProtection classIP20P-bandSupply air temperature control: 20 K, fixed Room temperature control: 1.5 K, fixedI-time6 min, fixedPulse period6120 sLoad80 AOutput80 A, 3 x 400 V AC, 55 kWInputsSetpointSetpoint030 °C (the sensor determines the range)Sensor inputsTwo, main and max./min. limiting sensors (NTC sensor).	Technical data	
MountingDIN-railDimensions (WxHxD)195 x 220 x 105 mmProtection classIP20P-bandSupply air temperature control: 20 K, fixed Room temperature control: 1.5 K, fixedI-time6 min, fixedPulse period6120 sLoad80 AOutput80 A, 3 x 400 V AC, 55 kWInputsSetpointSetpoint030 °C (the sensor determines the range)Sensor inputsTwo, main and max./min. limiting sensors (NTC sensor).	Supply voltage	3-phase, 400 V AC ±10%
Dimensions (WxHxD)195 x 220 x 105 mmProtection classIP20P-bandSupply air temperature control: 20 K, fixed Room temperature control: 1.5 K, fixedI-time6 min, fixedPulse period6120 sLoad80 AOutput80 A, 3 x 400 V AC, 55 kWInputsSetpointSetpoint030 °C (the sensor determines the range)Sensor inputsTwo, main and max./min. limiting sensors (NTC sensor).	Ambient temperature	040 °C
Protection classIP20P-bandSupply air temperature control: 20 K, fixed Room temperature control: 1.5 K, fixedI-time6 min, fixedPulse period6120 sLoad80 AOutput80 A, 3 x 400 V AC, 55 kWInputsSetpointSetpoint030 °C (the sensor determines the range)Sensor inputsTwo, main and max./min. limiting sensors (NTC sensor).	Mounting	DIN-rail
P-bandSupply air temperature control: 20 K, fixed Room temperature control: 1.5 K, fixedI-time6 min, fixedPulse period6120 sLoad80 AOutput80 A, 3 x 400 V AC, 55 kWInputsSetpointSetpoint030 °C (the sensor determines the range)Sensor inputsTwo, main and max./min. limiting sensors (NTC sensor).	Dimensions (WxHxD)	195 x 220 x 105 mm
I-timeSuppry an temperature control: 2019, inted Room temperature control: 1.5 K, fixedI-time6 min, fixedPulse period6120 sLoad80 AOutput80 A, 3 x 400 V AC, 55 kWInputsSetpointSetpoint030 °C (the sensor determines the range)Sensor inputsTwo, main and max./min. limiting sensors (NTC sensor).	Protection class	IP20
Pulse period     6120 s       Load     80 A       Output     80 A, 3 x 400 V AC, 55 kW       Inputs     Setpoint       Sensor inputs     Two, main and max./min. limiting sensors (NTC sensor).	P-band	
Load     80 A       Output     80 A, 3 x 400 V AC, 55 kW       Inputs     Setpoint       Setpoint     030 °C (the sensor determines the range)       Sensor inputs     Two, main and max./min. limiting sensors (NTC sensor).	I-time	6 min, fixed
Output       80 A, 3 x 400 V AC, 55 kW         Inputs       Setpoint         Sensor inputs       030 °C (the sensor determines the range)         Sensor inputs       Two, main and max./min. limiting sensors (NTC sensor).	Pulse period	6120 s
Inputs       030 °C (the sensor determines the range)         Setpoint       030 °C (the sensor determines the range)         Sensor inputs       Two, main and max./min. limiting sensors (NTC sensor).	Load	80 A
Setpoint030 °C (the sensor determines the range)Sensor inputsTwo, main and max./min. limiting sensors (NTC sensor).	Output	80 A, 3 x 400 V AC, 55 kW
Sensor inputs Two, main and max./min. limiting sensors (NTC sensor).	Inputs	
	Setpoint	030 °C (the sensor determines the range)
Control signal 010 V DC	Sensor inputs	Two, main and max./min. limiting sensors (NTC sensor).
	Control signal	010 V DC

 Article
 Description
 External 0...10 V DC control signal option

 CTR80
 Electric heating controller with temperature control
 X

To control larger electrical loads, see the step controllers SC4 and SC6.