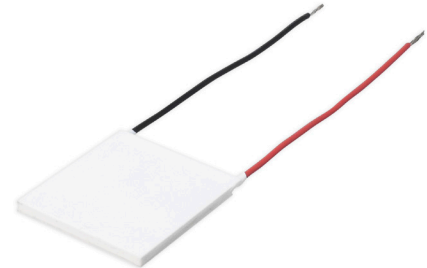


**SERIES:** CP110 | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- arcTEC™ structure
- enhanced reliability for high thermal cycling
- superior thermal performance
- silicon sealed
- wide  $\Delta T$  max
- precise temperature control
- solid state construction

**MODEL**

MODEL	input voltage <sup>1</sup> max (Vdc)	input current <sup>2</sup> max (A)	internal resistance <sup>3</sup> typ ( $\Omega \pm 10\%$ )	output Qmax <sup>4</sup>		output $\Delta T$ max <sup>5</sup>	
				T <sub>h</sub> =27°C (W)	T <sub>h</sub> =50°C (W)	T <sub>h</sub> =27°C (°C)	T <sub>h</sub> =50°C (°C)
CP1130325	11.8	11.0	0.9	74.7	82	68	75
CP1140203	7.6	11.0	0.53	48	52	70	77
CP11404432	24.1	11.0	1.65	156	171	70	77
CP115035335	16.8	11.0	1.18	106	116	70	77
CP115559405	24.6	11.0	1.66	154	169	70	77

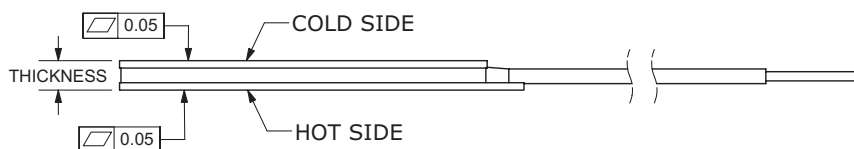
- Notes:
1. Maximum voltage at  $\Delta T$  max and T<sub>h</sub>=27°C
  2. Maximum current to achieve  $\Delta T$  max
  3. Measured by AC 4-terminal method at 25°C
  4. Maximum heat absorbed at cold side occurs at I<sub>max</sub>, V<sub>max</sub>, and  $\Delta T=0^\circ\text{C}$
  5. Maximum temperature difference occurs at I<sub>max</sub>, V<sub>max</sub>, and Q=0W ( $\Delta T$  max measured in a vacuum at 1.3 Pa)

## SPECIFICATIONS

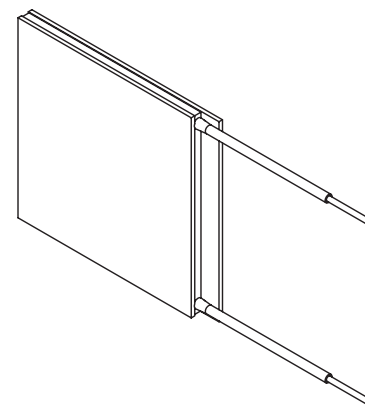
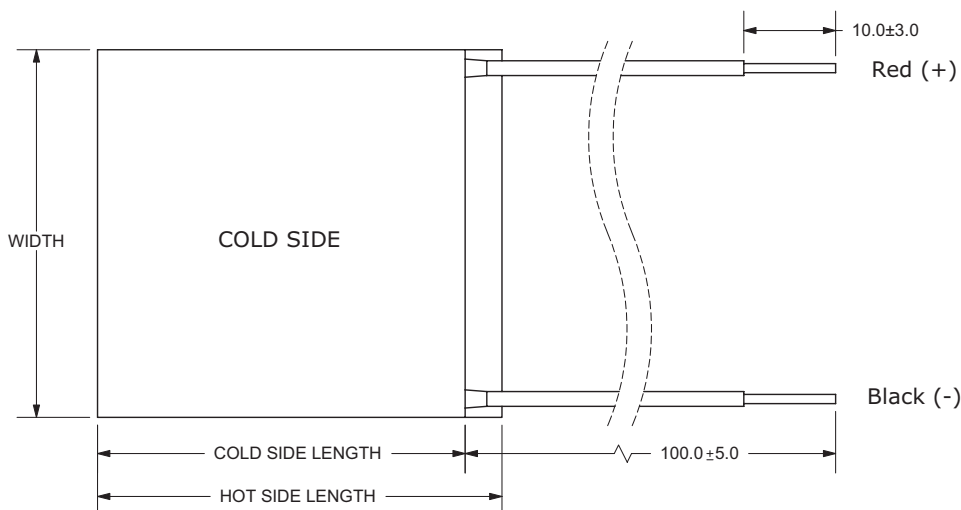
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				

## MECHANICAL DRAWING

units: mm

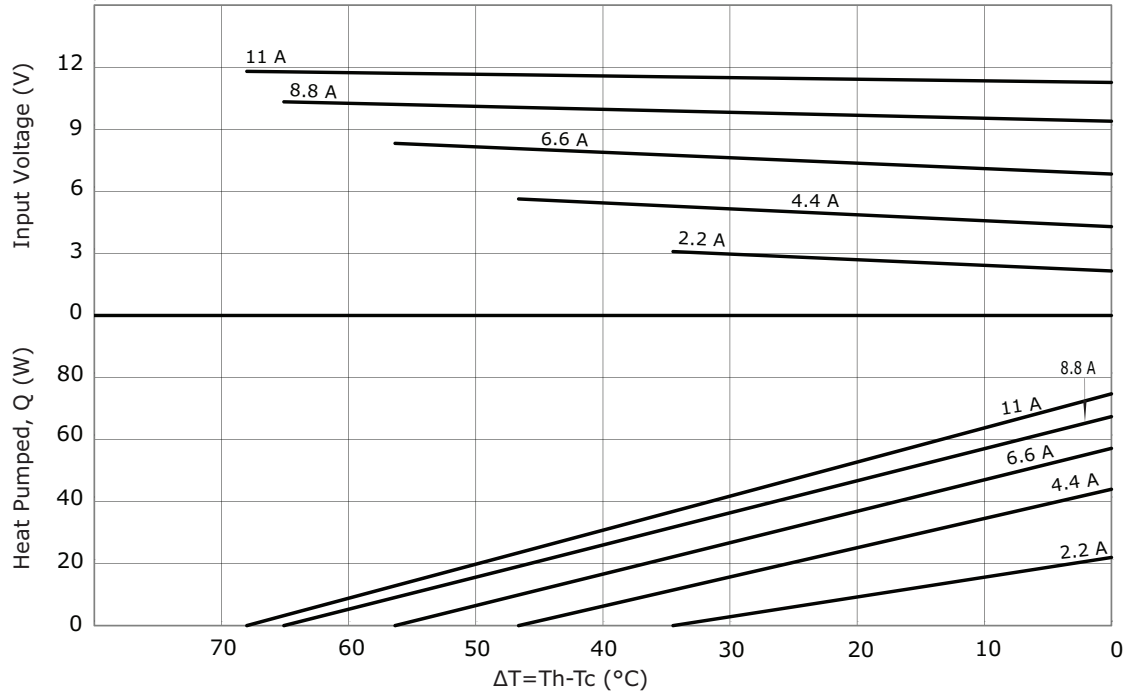


	MATERIAL	PLATING
ceramic plate	96% AL <sub>2</sub> O <sub>3</sub>	
wire leads (CP1140203)	22 AWG	tin
wire leads (CP115559405)	18 AWG	tin
wire leads (all other models)	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

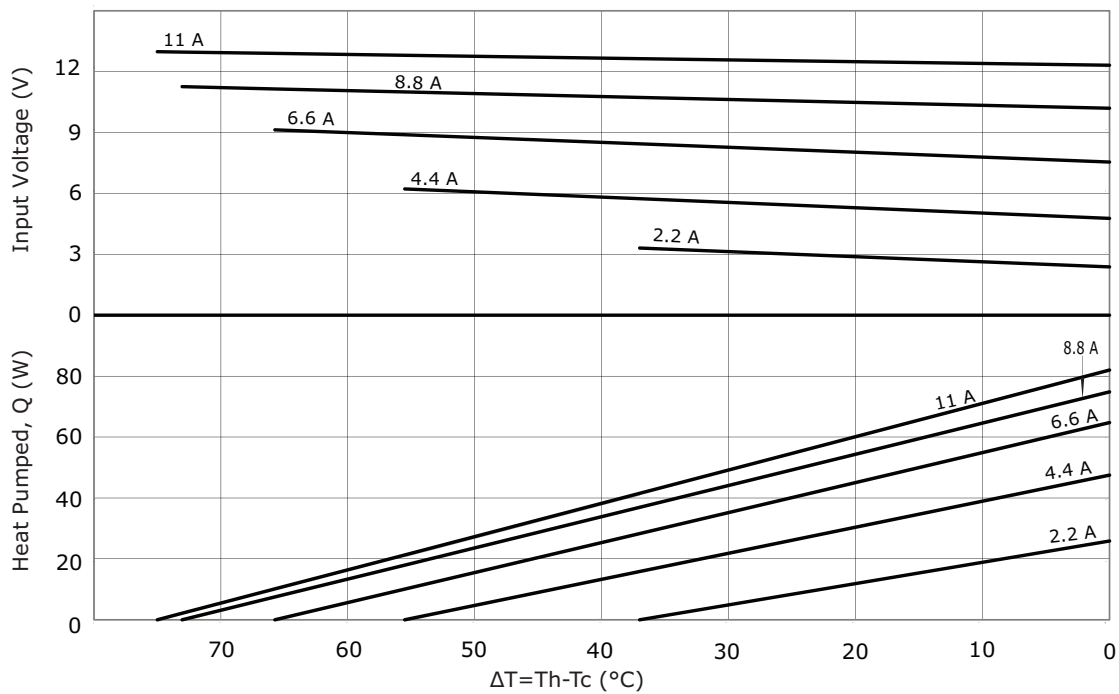


MODEL NO.	HOT SIDE LENGTH (mm)	COLD SIDE LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP1130325	30 ±0.3	30 ±0.3	30 ±0.3	3.25 ±0.025
CP1140203	40 ±0.3	40 ±0.3	20 ±0.3	3.0 ±0.05
CP11404432	44 ±0.3	40 ±0.3	40 ±0.3	3.2 ±0.1
CP115035335	50 ±0.3	50 ±0.3	35 ±0.3	3.35 ±0.05
CP115559405	59 ±0.3	55 ±0.3	55 ±0.3	4.05 ±0.1

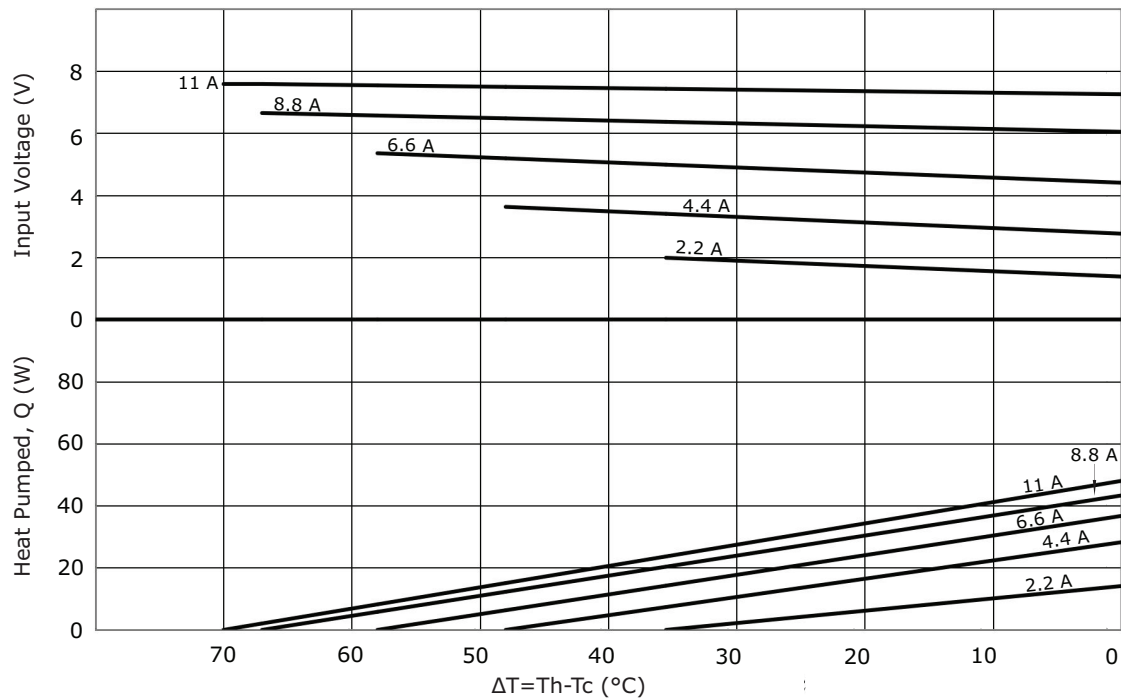
### CP1130325 PERFORMANCE (Th=27°C)



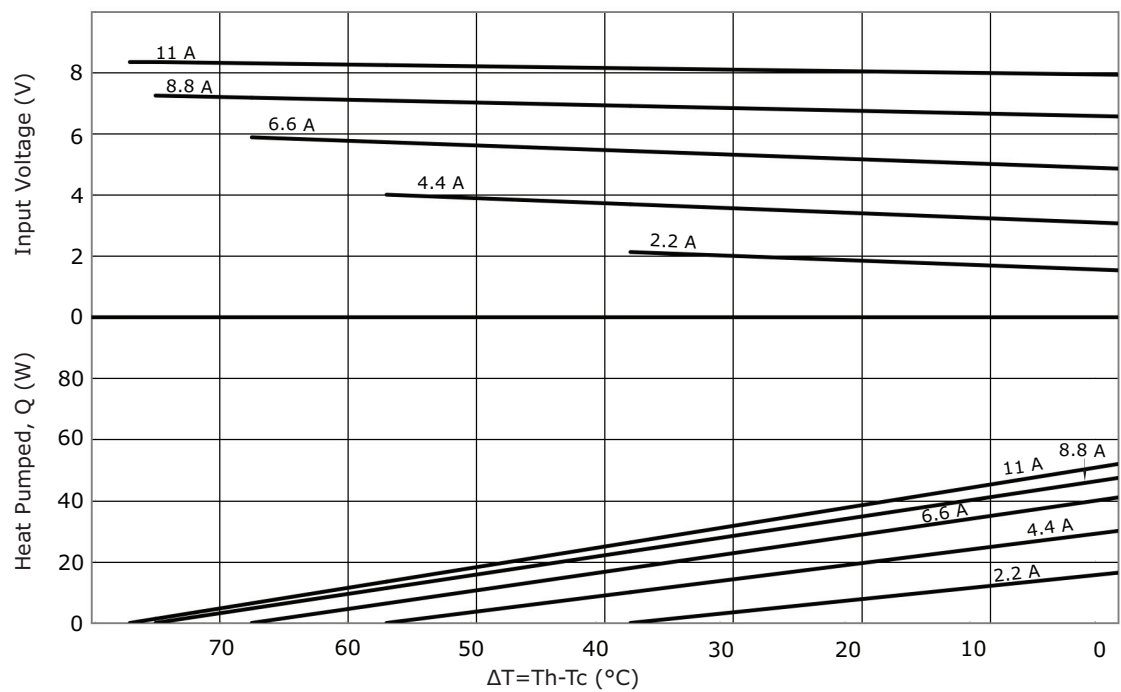
### CP1130325 PERFORMANCE (Th=50°C)



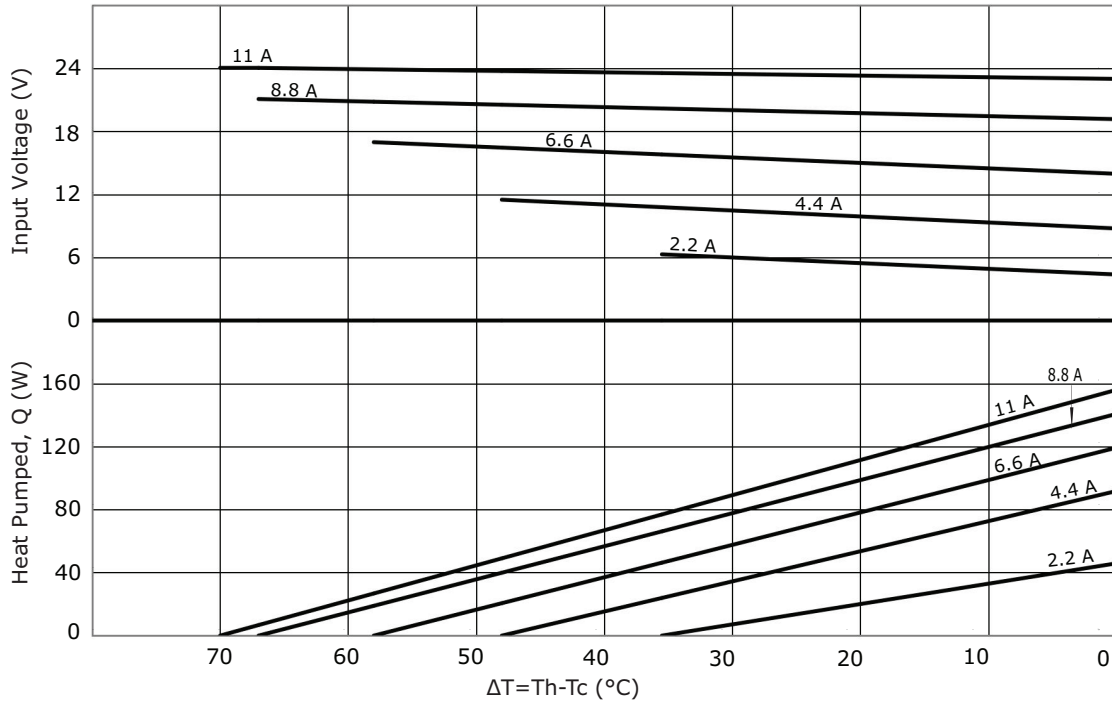
### CP1140203 PERFORMANCE (Th=27°C)



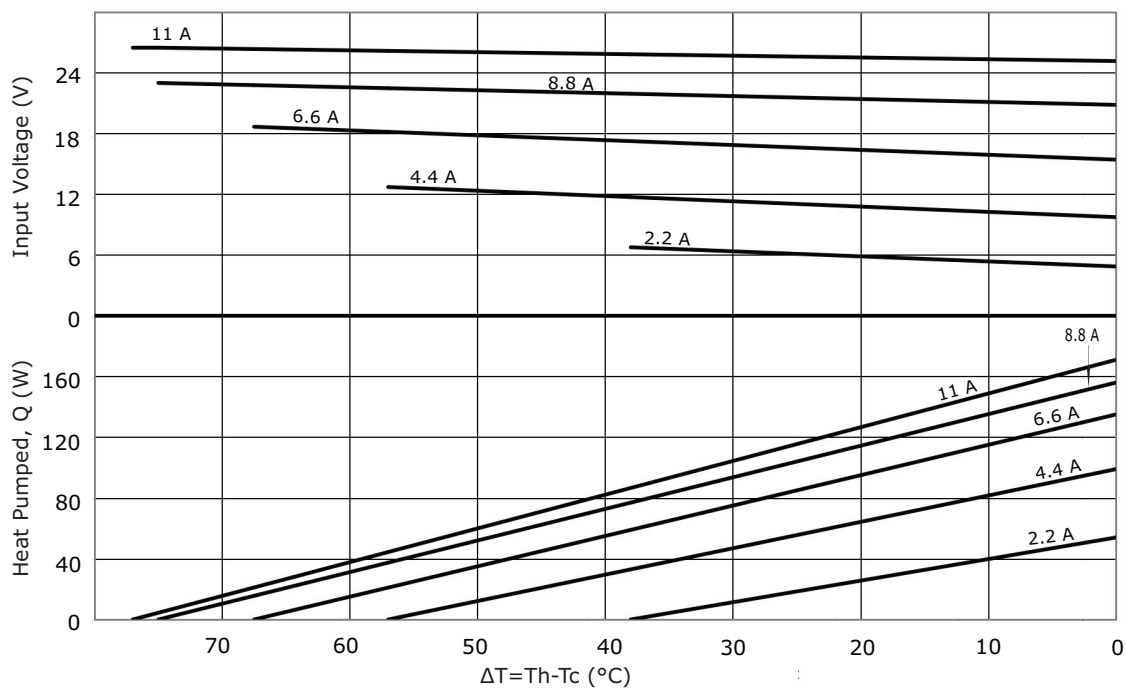
### CP1140203 PERFORMANCE (Th=50°C)



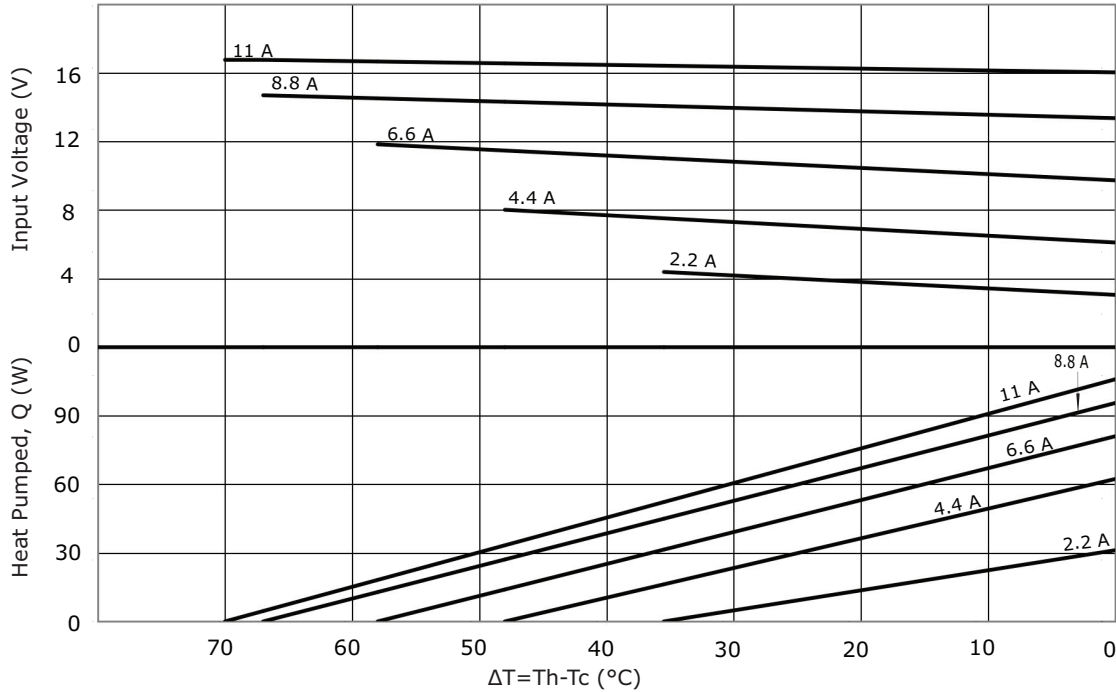
### CP11404432 PERFORMANCE (Th=27°C)



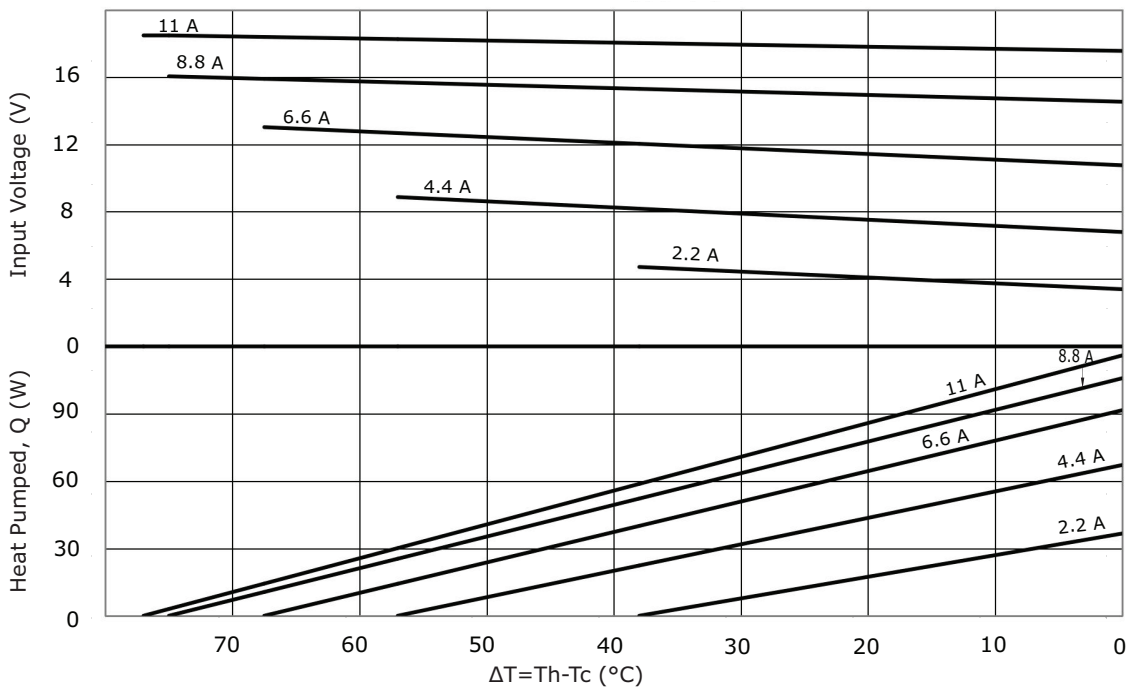
### CP11404432 PERFORMANCE (Th=50°C)



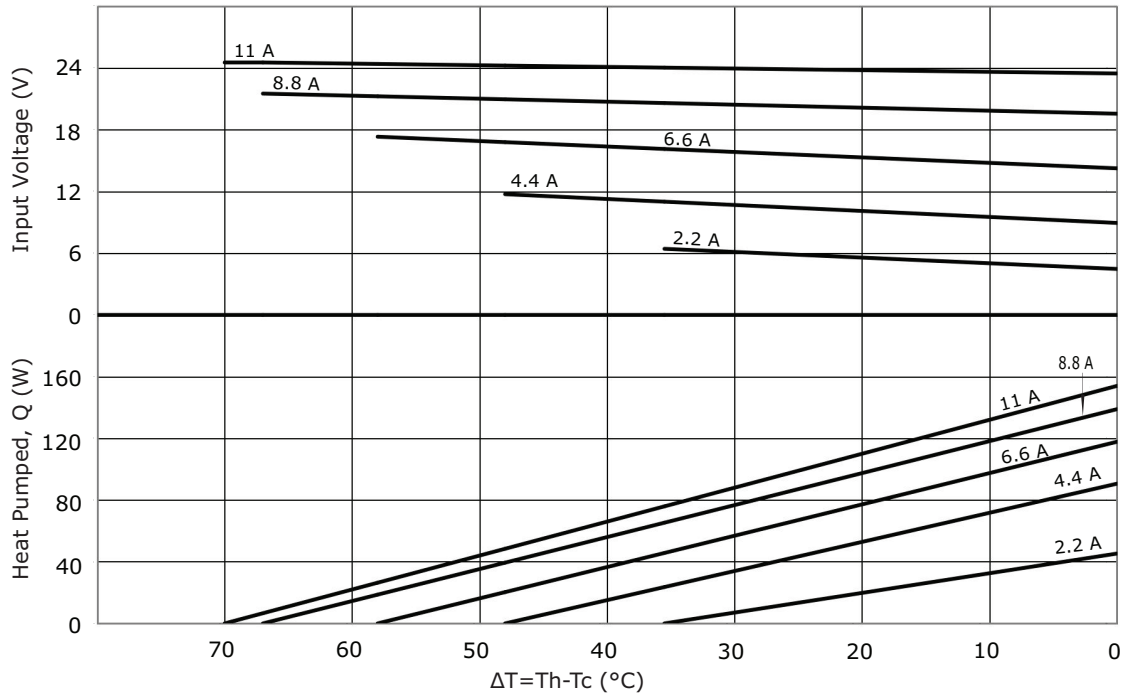
### CP115035335 PERFORMANCE (Th=27°C)



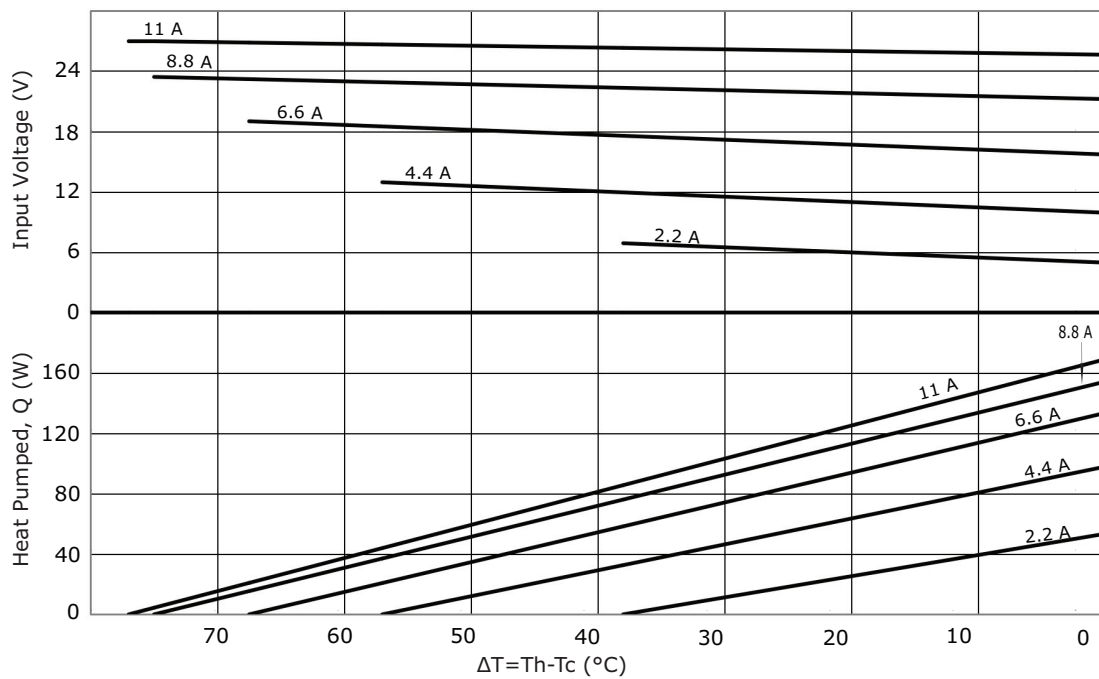
### CP115035335 PERFORMANCE (Th=50°C)



### CP115559405 PERFORMANCE (Th=27°C)



### CP115559405 PERFORMANCE (Th=50°C)



## REVISION HISTORY

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rev.	description	date
1.0	initial release	11/05/2019
1.01	added model CP115035335	11/10/2020

The revision history provided is for informational purposes only and is believed to be accurate.

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