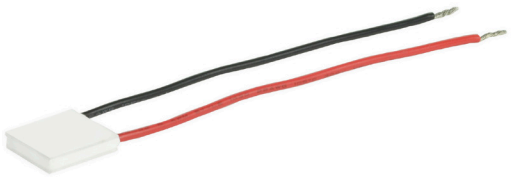
CUI Devices is now Same Sky! Learn More

SERIES: CP60H | DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure on select models
- enhanced reliability for high thermal cycling
- superior thermal performance
- silicon sealed
- wide ΔT max
- low profile
- precise temperature control
- solid state construction



RoHS

MODEL

MODEL	input voltage[1] max (Vdc)	input current[2] max (A)	internal resistance[3] typ (Ω±10%)	output Qmax[4] T_h=27°C (W)	output Qmax[4] T_h=50°C (W)	output ΔTmax[5] T_h=27°C (°C)	output ΔTmax[5] T_h=50°C (°C)
CP60131H	3.8	6.0	0.45	13	14.3	70	77
CP60139H	2.1	6.0	0.30	7.4	8.2	70	77
CP60231H	8.8	6.0	1.05	29.7	32.7	70	77
CP60239H	3.8	6.0	0.55	13.6	14.9	70	77
CP602040395H[6]	7.6	6.0	1.09	27.5	30.2	70	77
CP60301233H	5.6	6.0	0.76	19.7	21.7	70	77
CP60301531H	7.6	6.0	0.93	26.3	28.9	70	77
CP60302031H	13.0	6.0	1.51	49.5	54.5	68	75
CP603315H[6]	15.7	6.0	1.90	53.1	59.1	70	77
CP6030395[6]	11.8	6.0	1.65	41.5	45.6	70	77
CP603395H[6]	8.8	6.0	1.25	31.1	34.2	70	77
CP604020395H[6]	7.6	6.0	1.09	27.5	30.2	70	77
CP60433H[6]	19.5	6.0	2.54	67.6	74.3	68	75
CP604395H[6]	15.7	6.0	2.2	55.6	61.0	70	77
CP604040[6]	24.1	6.0	3.21	83.5	91.9	68	75
CP60546241[6]	41.3	6.0	5.78	147	161	70	77
CP6055354[6]	35.4	6.0	4.95	126	138	70	77
CP60555542[6]	29.8	6.0	4.15	106	116	70	77
CP604060395[6]	23.6	6.0	3.3	80.2	88.2	70	77

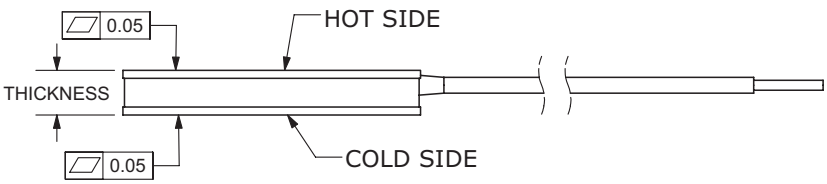
Notes:
1. Maximum voltage at ΔT max and T_h=27°C
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C
5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)
6. Designed with arcTEC™ structure.

SPECIFICATIONS

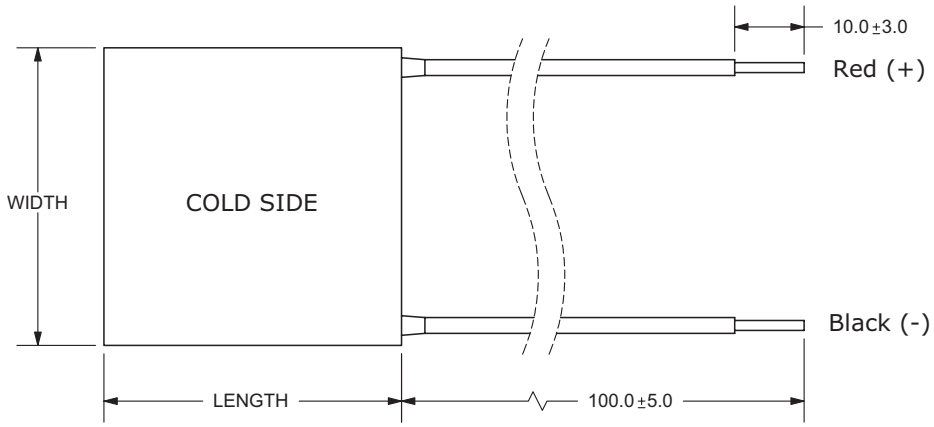
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				

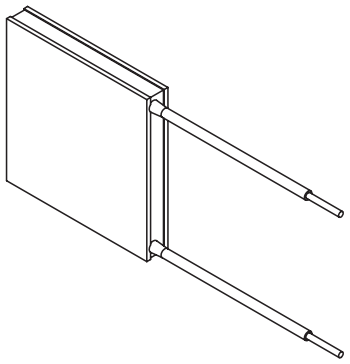
MECHANICAL DRAWING

units: mm



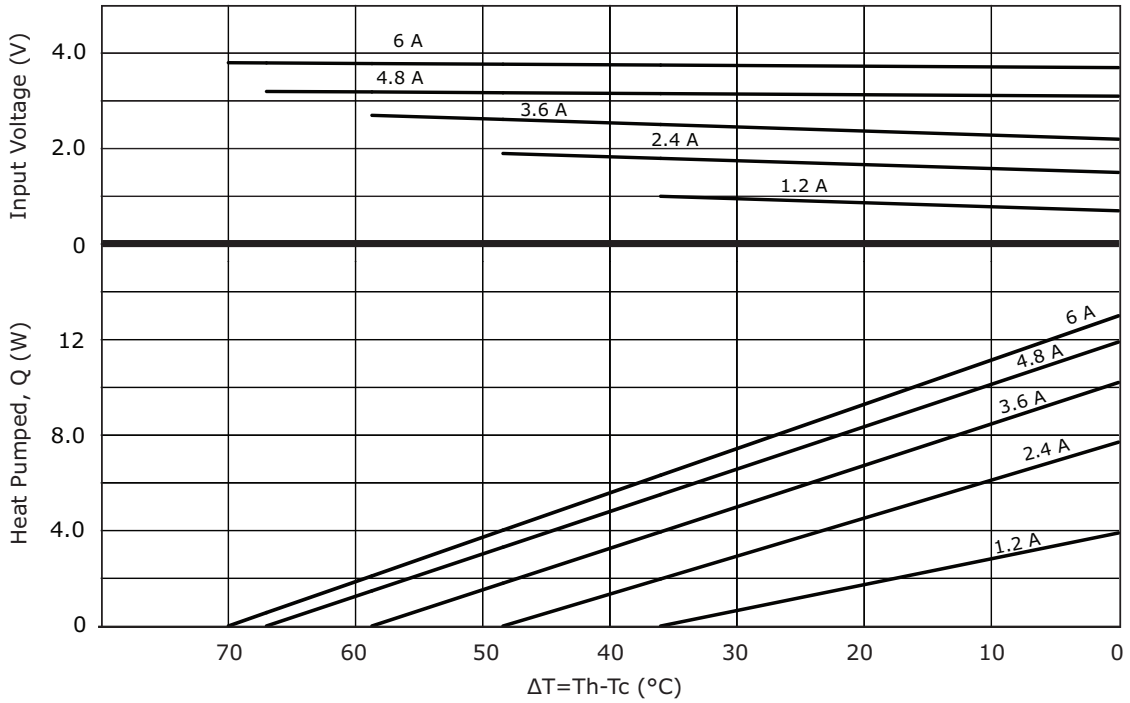
	MATERIAL	PLATING
ceramic plate	96% AL_2O_3	
wire leads (CP60131H, CP60231H, CP60302031H CP60301233H, CP60301531H, CP603315H)	22 AWG	tin
wire leads (all other models)	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	



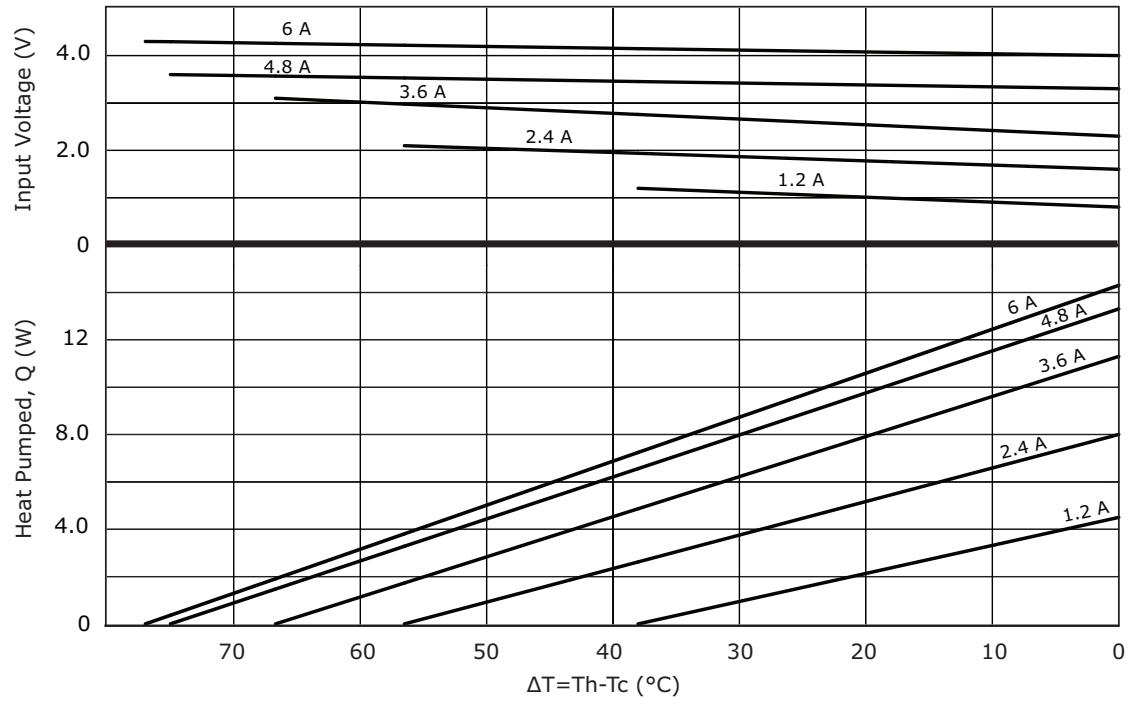


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)	MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP60131H	15 ±0.3	15 ±0.3	3.1 ±0.025	CP603395H	30 ±0.3	30 ±0.3	3.95 ±0.025
CP60139H	15 ±0.3	15 ±0.3	3.9 ±0.025	CP6040203 95H	40 ±0.3	20 ±0.3	3.95 ±0.025
CP60231H	20 ±0.3	20 ±0.3	3.1 ±0.025	CP60433H	40 ±0.3	40 ±0.3	3.3 ±0.03
CP60239H	20 ±0.3	20 ±0.3	3.9 ±0.025	CP604395H	40 ±0.3	40 ±0.3	3.95 ±0.025
CP602040395H	20 ±0.3	40 ±0.3	3.95 ±0.025	CP604040	40 ±0.3	40 ±0.3	4.0 ±0.1
CP60301233H	30 ±0.1	12 ±0.1	3.3 ±0.1	CP60546241	62.5 ±0.3	54 ±0.3	4.1 ±0.1
CP60301531H	30 ±0.3	15 ±0.3	3.1 ±0.025	CP6055354	55 ±0.3	55 ±0.3	4.1 ±0.1
CP60302031H	30 ±0.3	20 ±0.3	3.1 ±0.1	CP60555542	55 ±0.3	55 ±0.3	4.2 ±0.1
CP603315H	30 ±0.3	30 ±0.3	3.15 ±0.025	CP604060395	40 ±0.3	60 ±0.3	3.95 ±0.025
CP6030395	30 ±0.3	30 ±0.3	3.95 ±0.025				

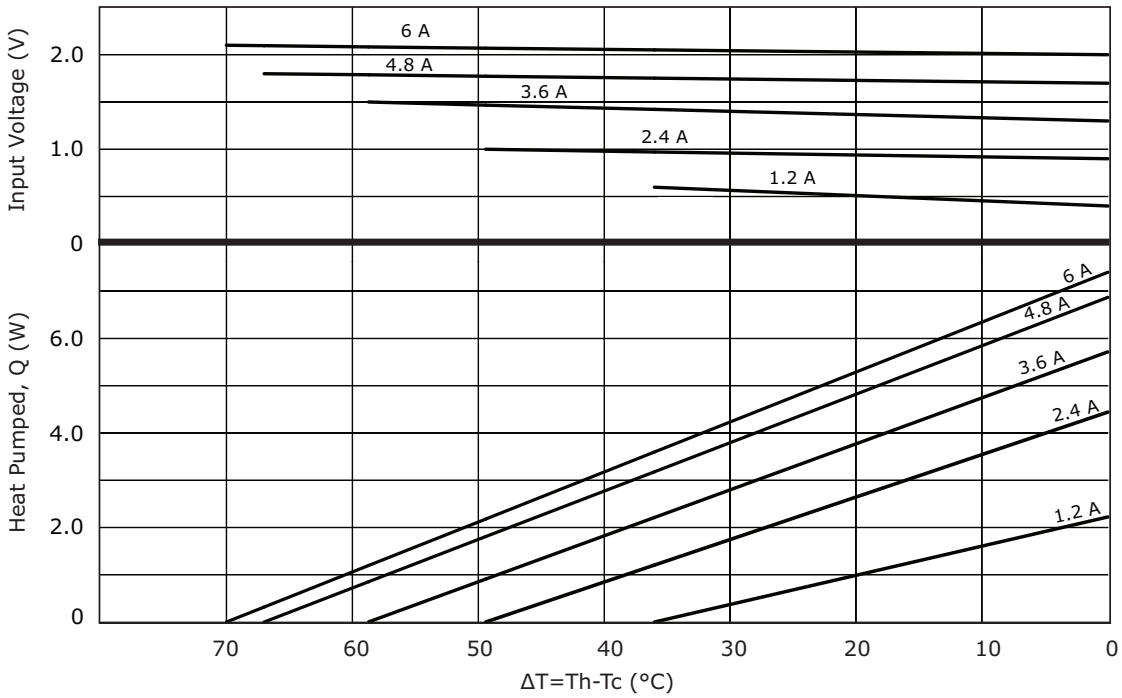
CP60131H PERFORMANCE (Th=27°C)



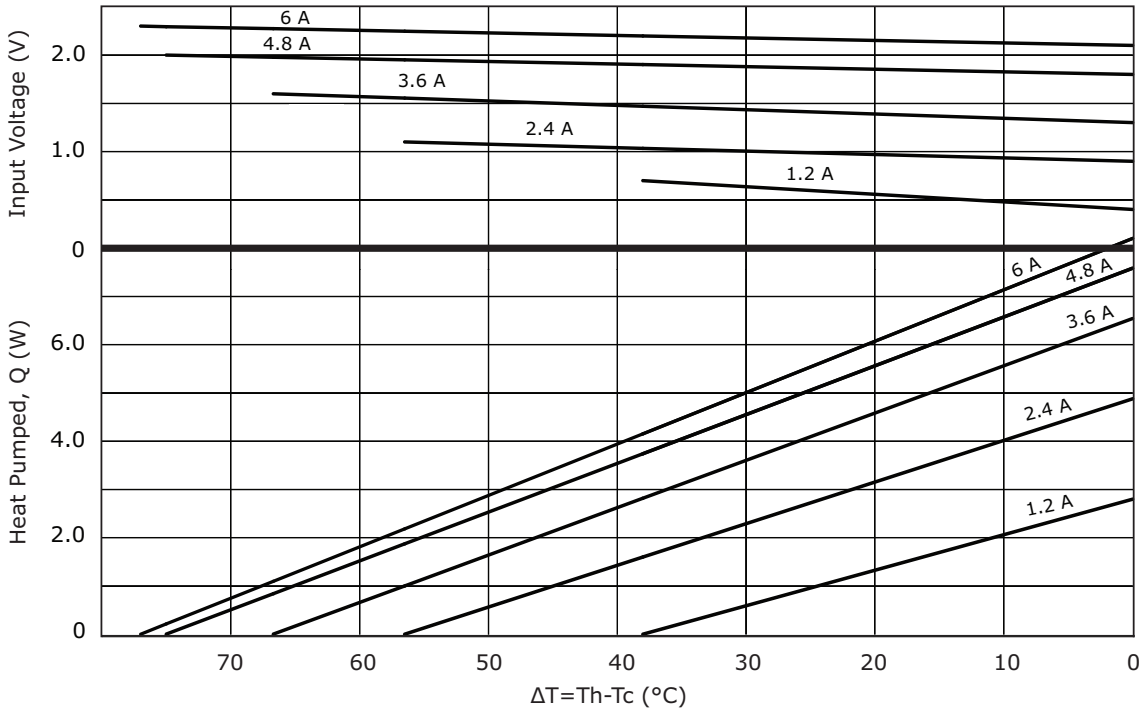
CP60131H PERFORMANCE (Th=50°C)



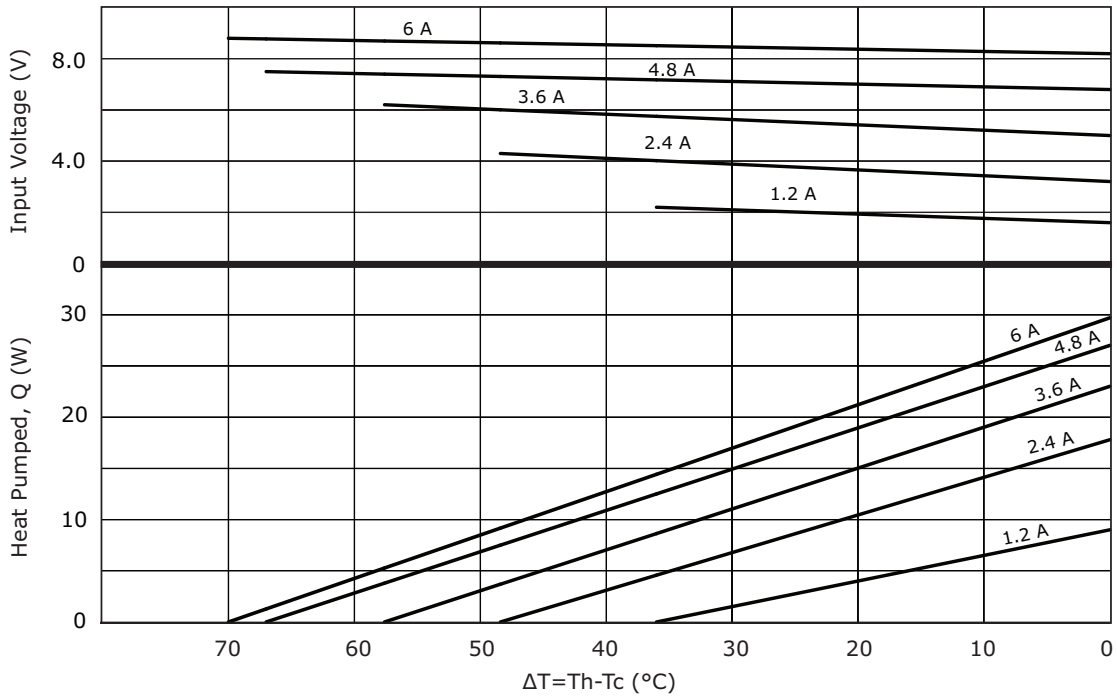
CP60139H PERFORMANCE (Th=27°C)



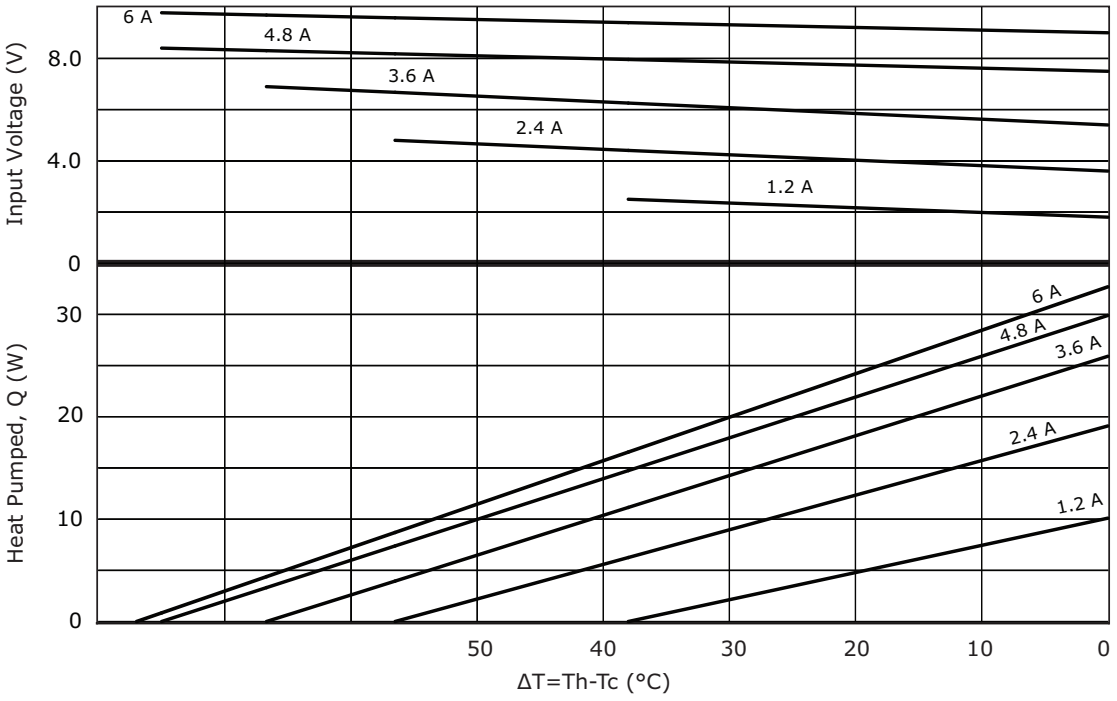
CP60139H PERFORMANCE (Th=50°C)



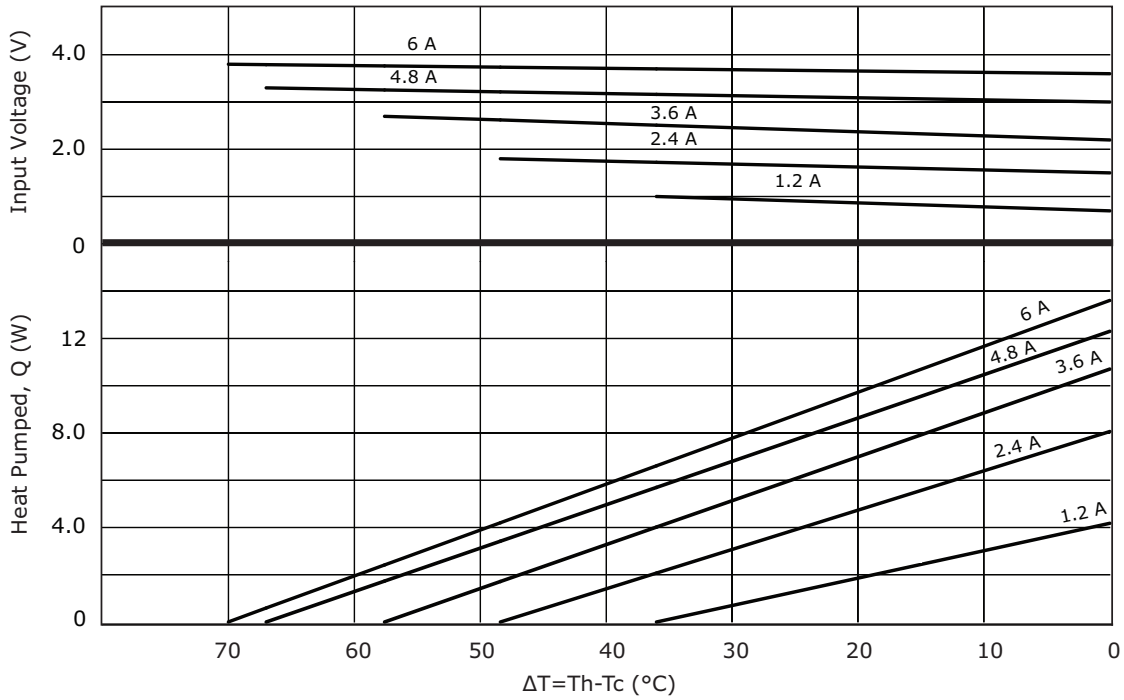
CP60231H PERFORMANCE (Th=27°C)



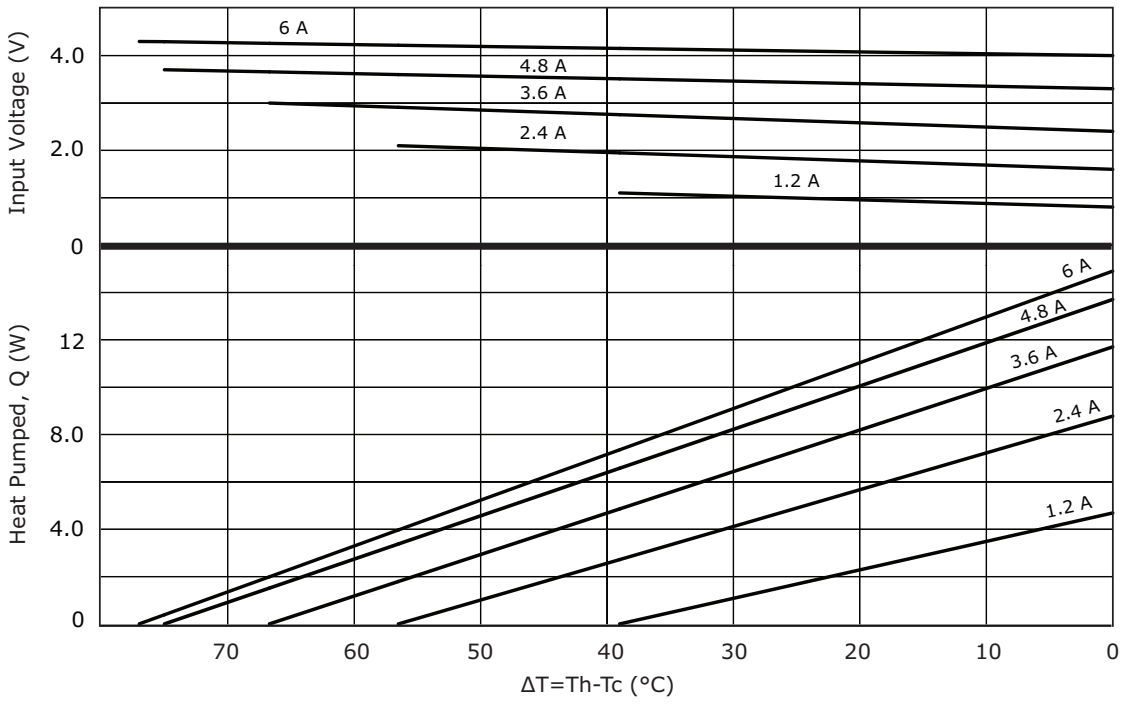
CP60231H PERFORMANCE (Th=50°C)



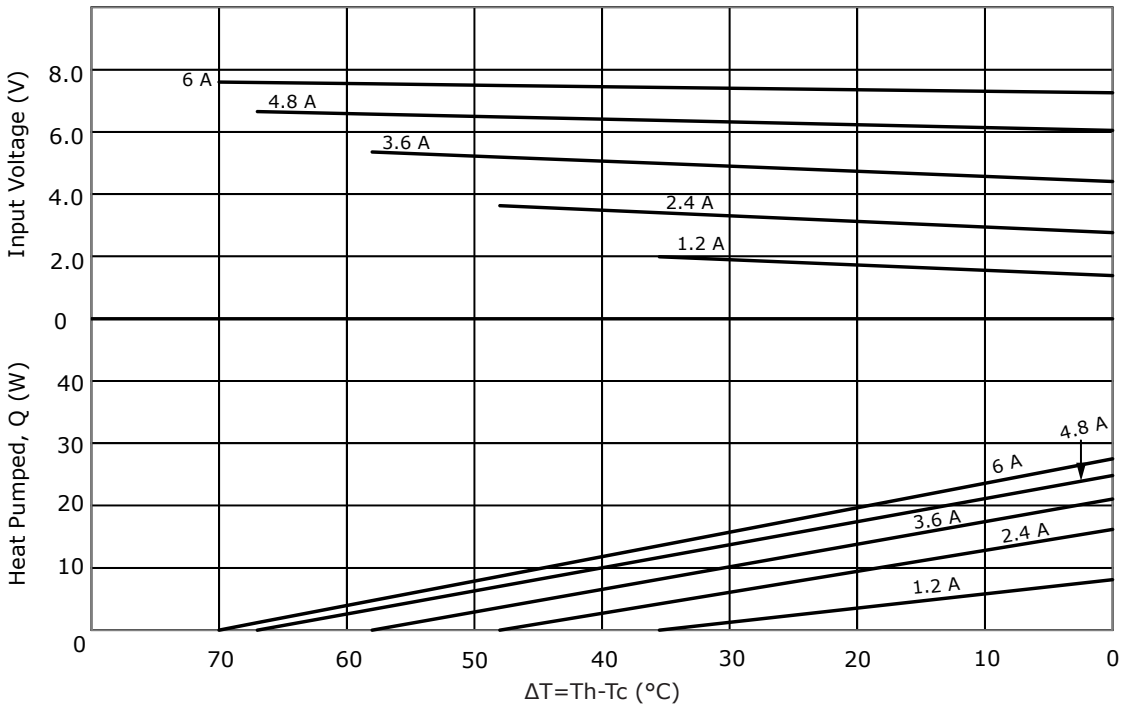
CP60239H PERFORMANCE (Th=27°C)



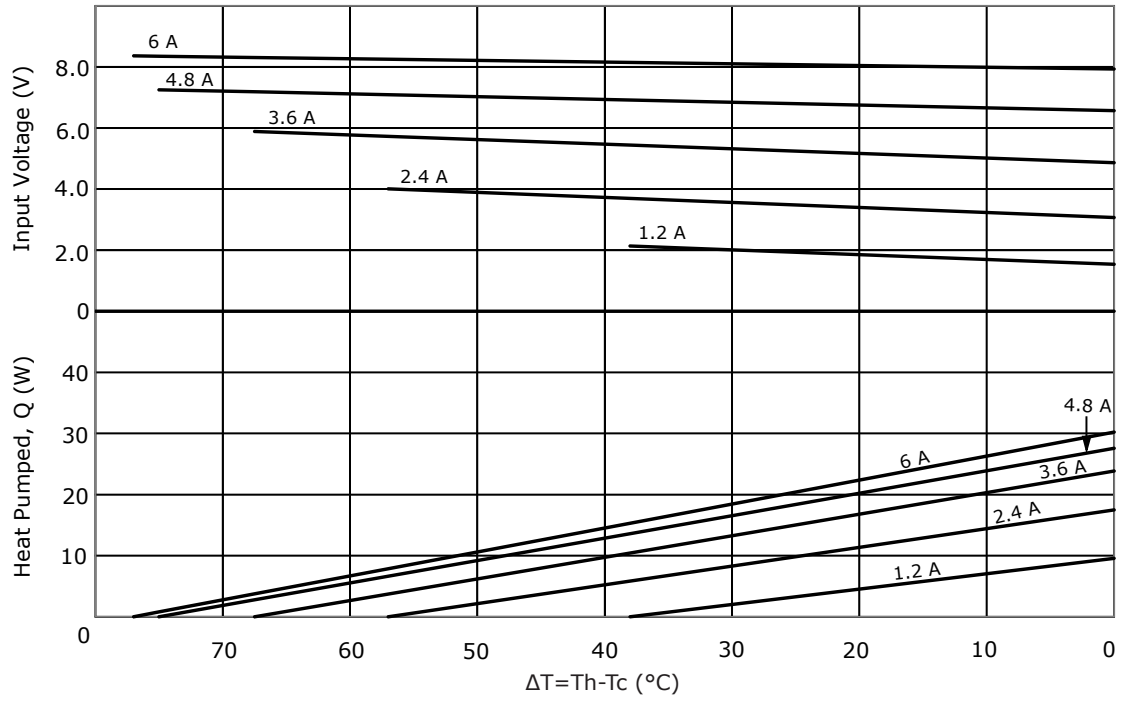
CP60239H PERFORMANCE (Th=50°C)



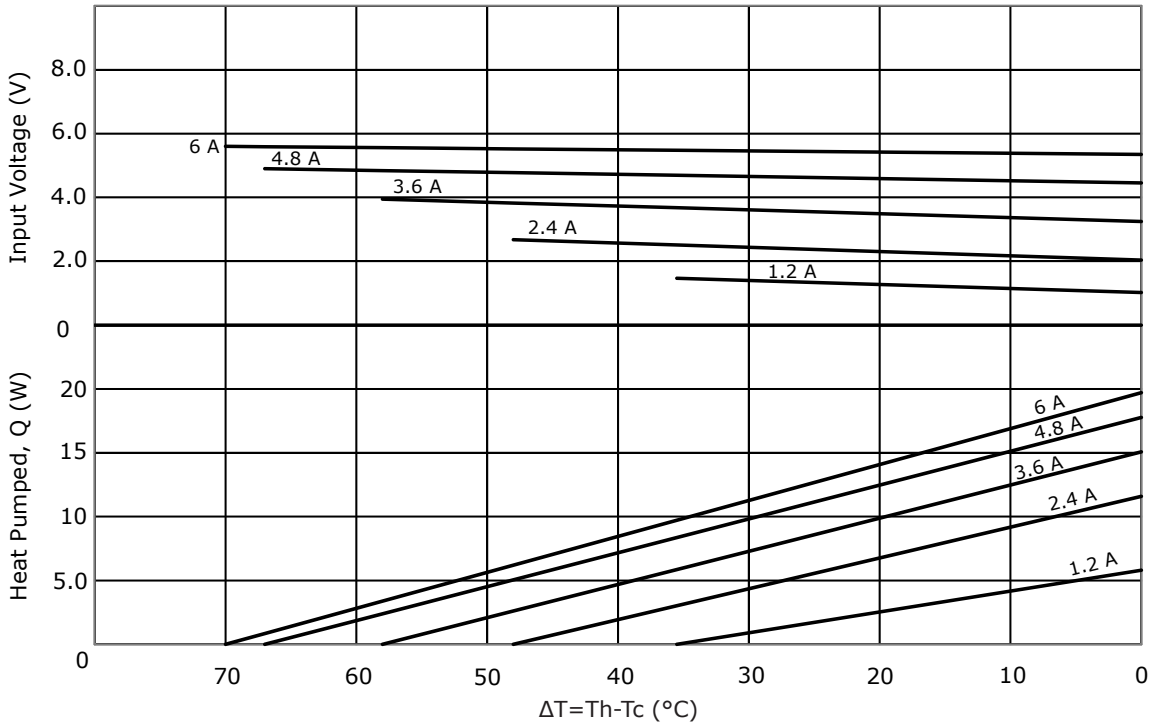
CP602040395H PERFORMANCE (Th=27°C)



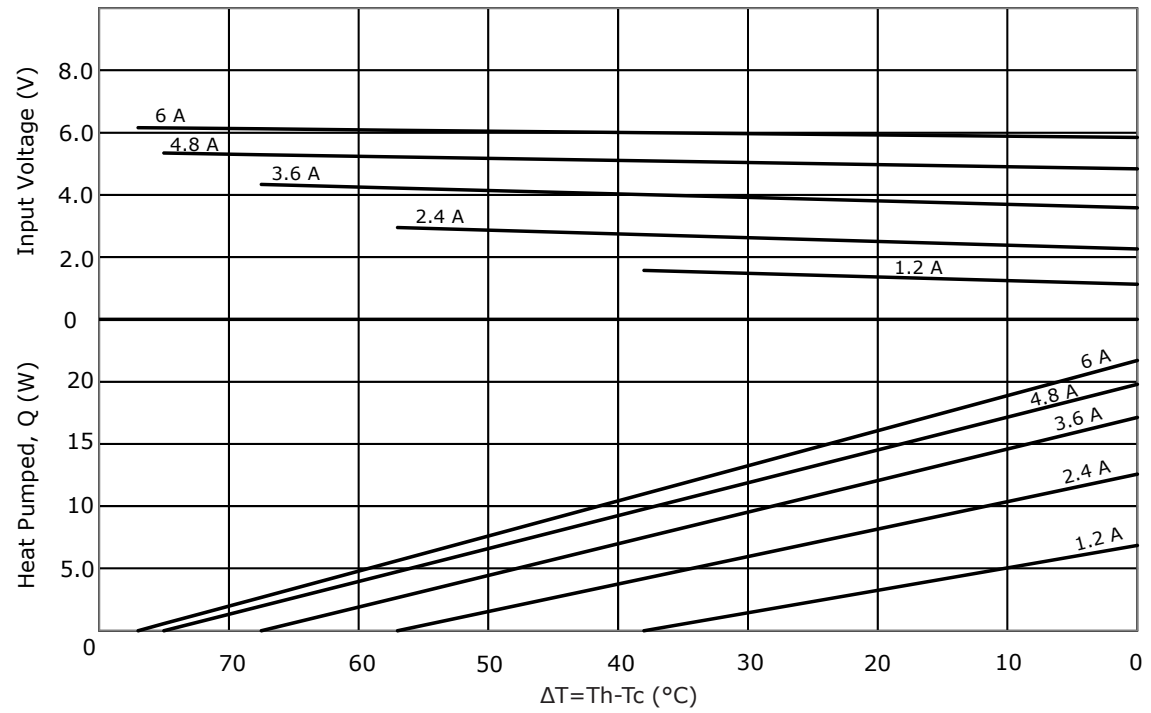
CP602040395H PERFORMANCE (Th=50°C)



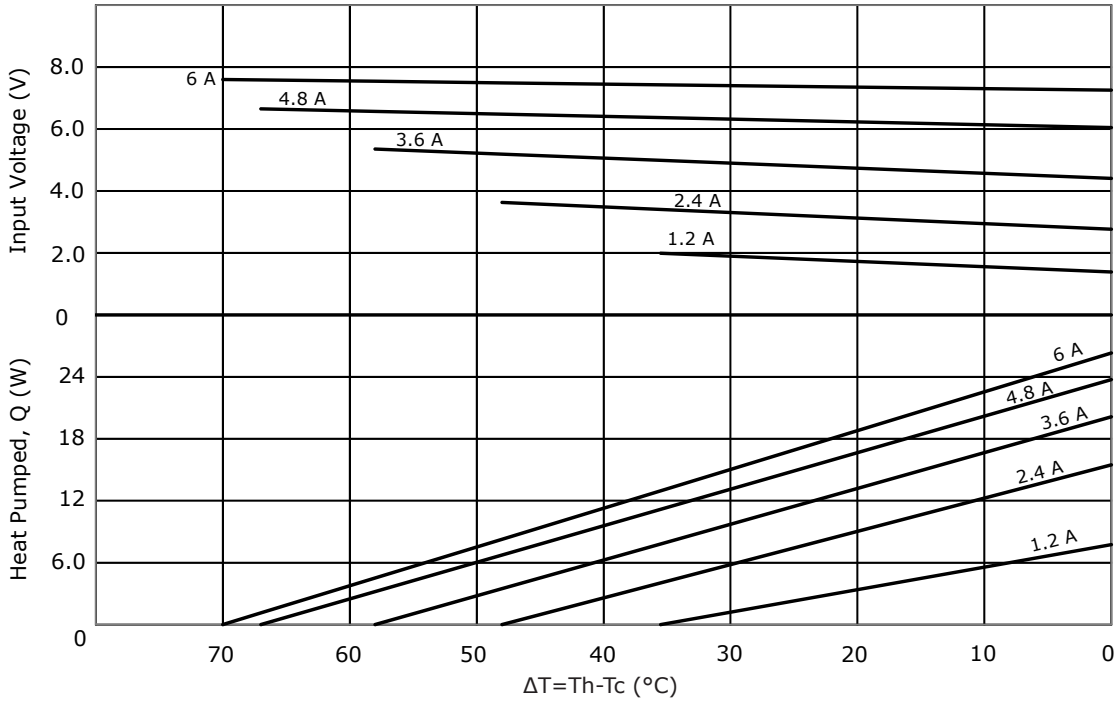
CP60301233H PERFORMANCE (Th=27°C)



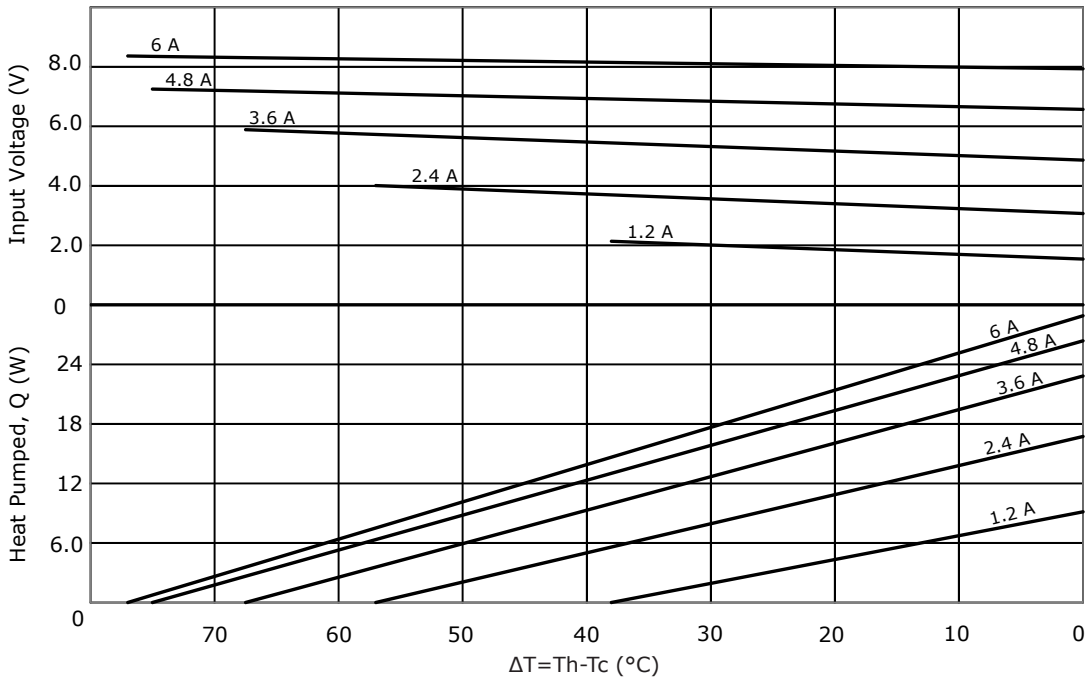
CP60301233H PERFORMANCE (Th=50°C)



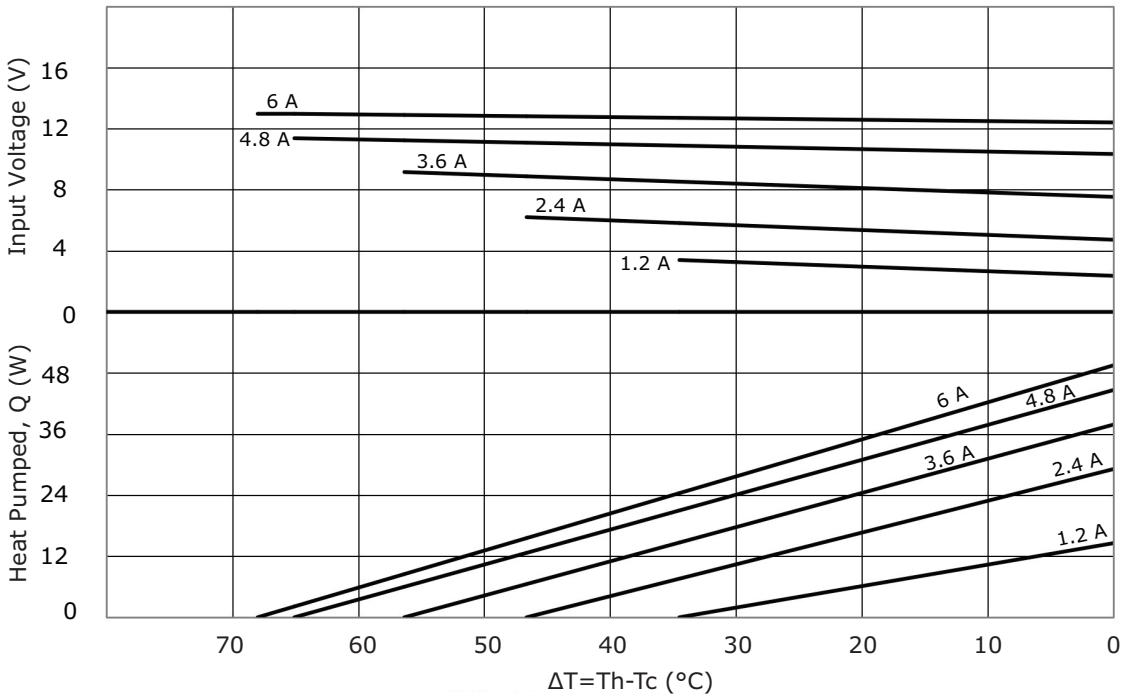
CP60301531H PERFORMANCE (Th=27°C)



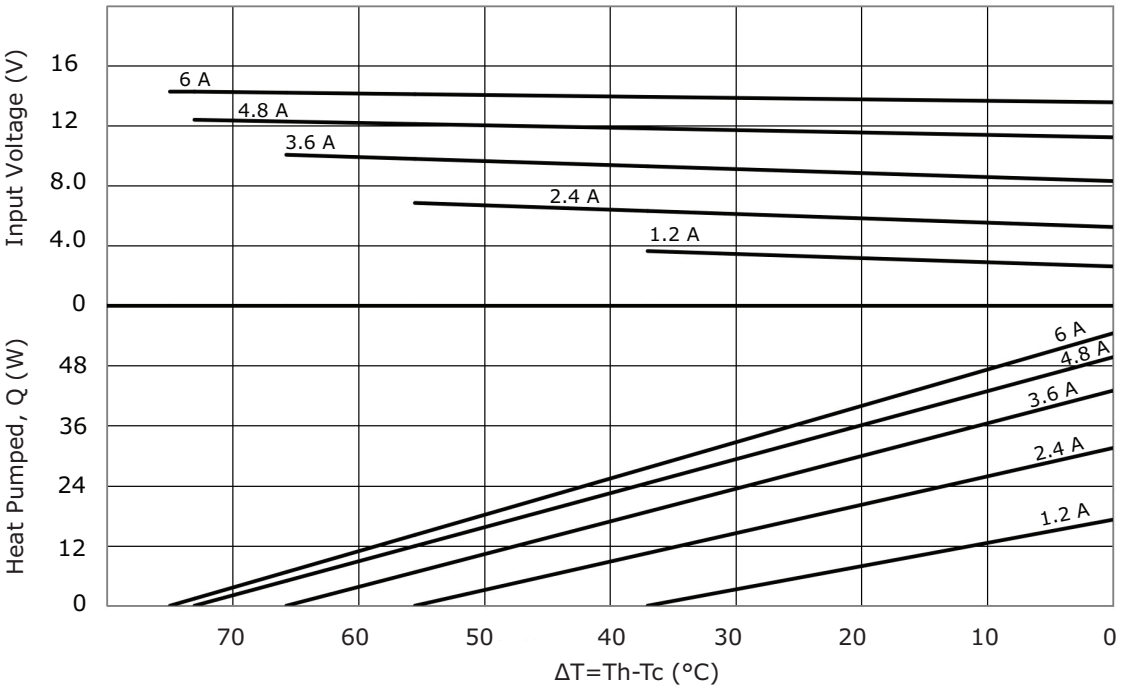
CP60301531H PERFORMANCE (Th=50°C)



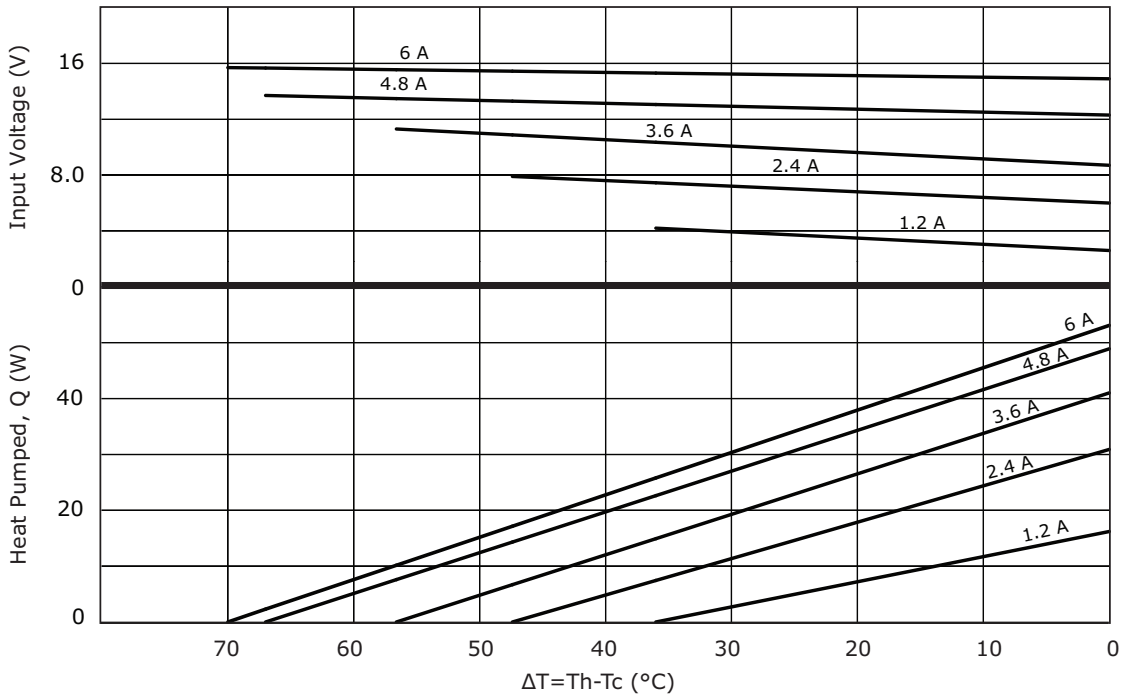
CP60302031H PERFORMANCE (Th=27°C)



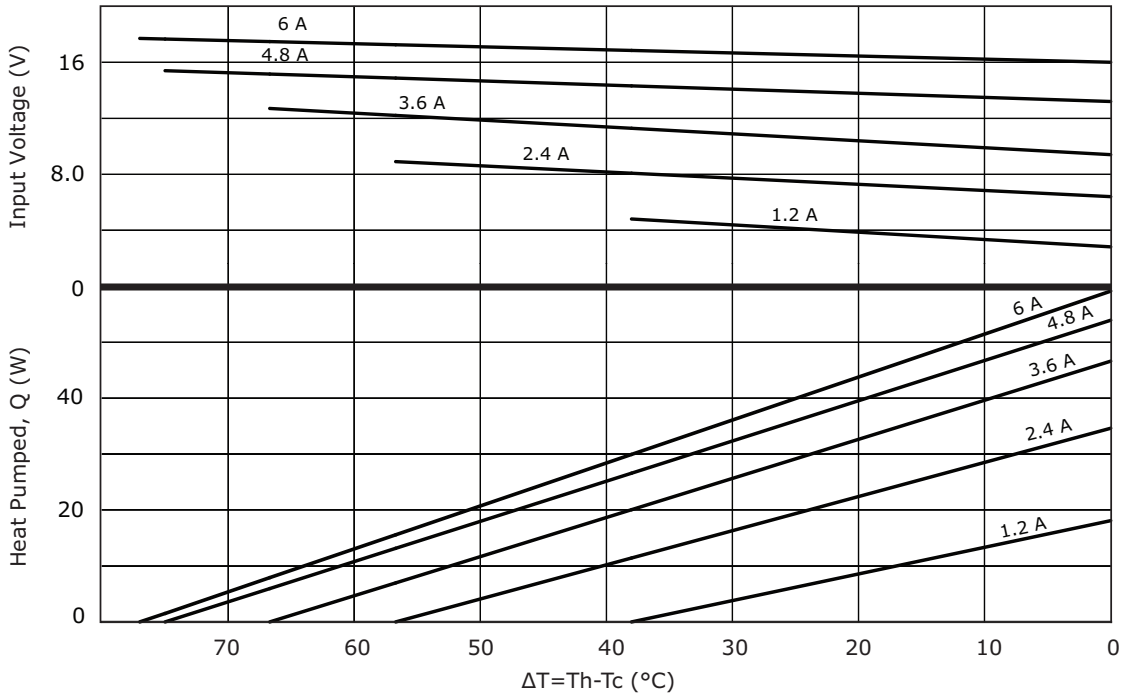
CP60302031H PERFORMANCE (Th=50°C)



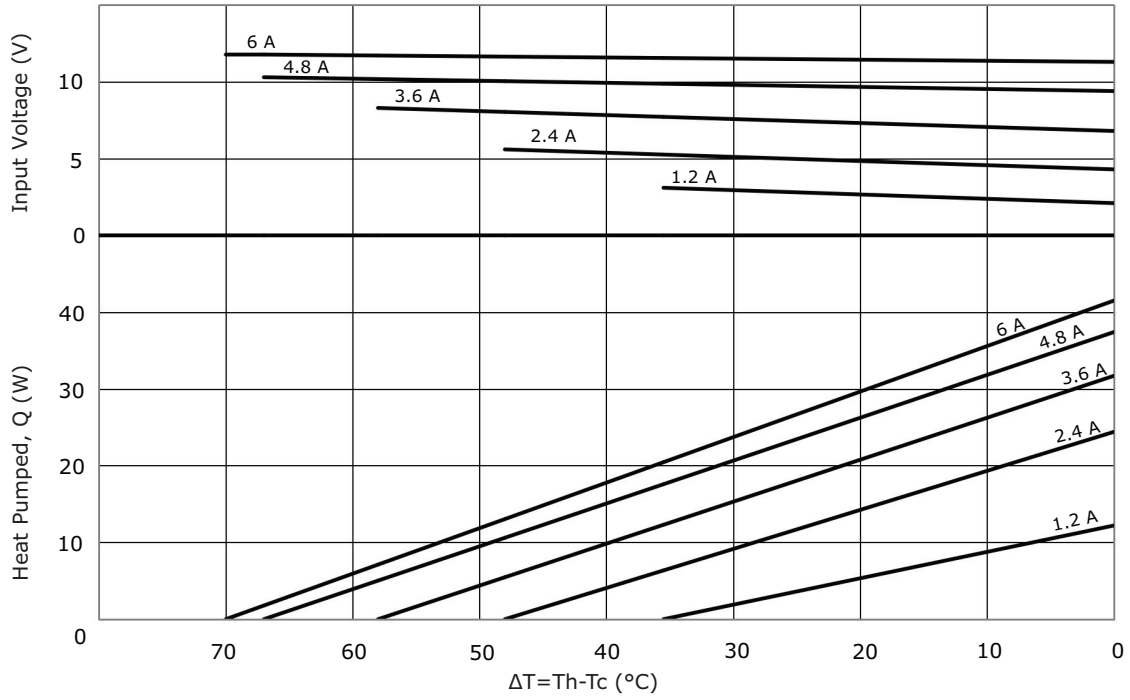
CP603315H PERFORMANCE (Th=27°C)



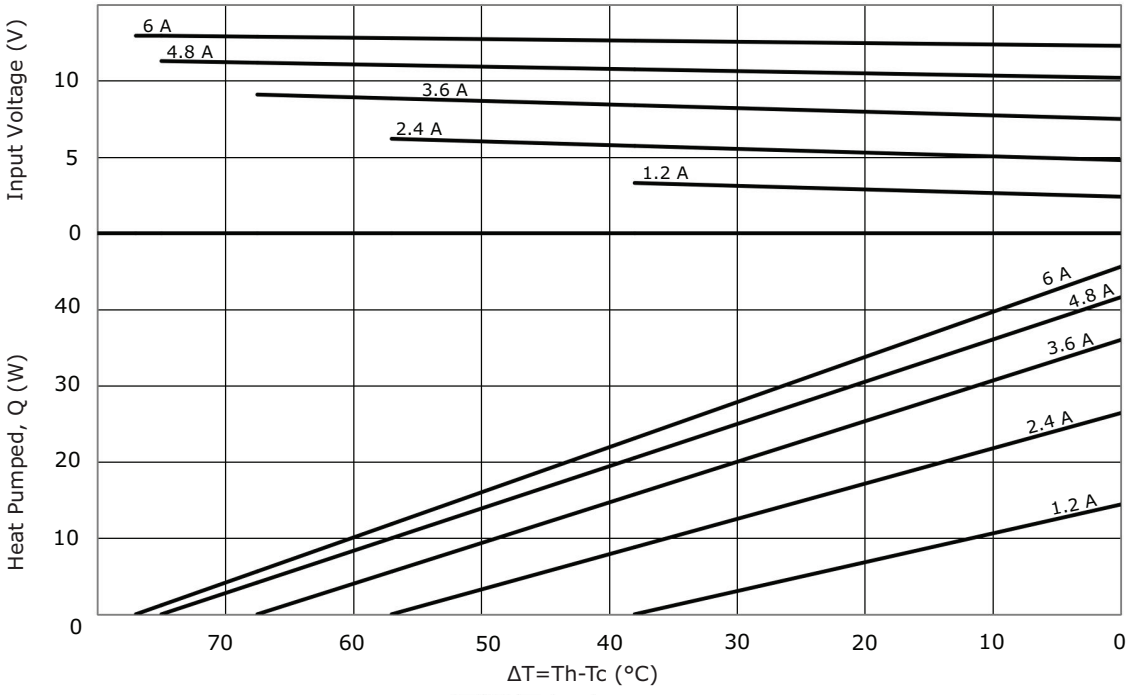
CP603315H PERFORMANCE (Th=50°C)



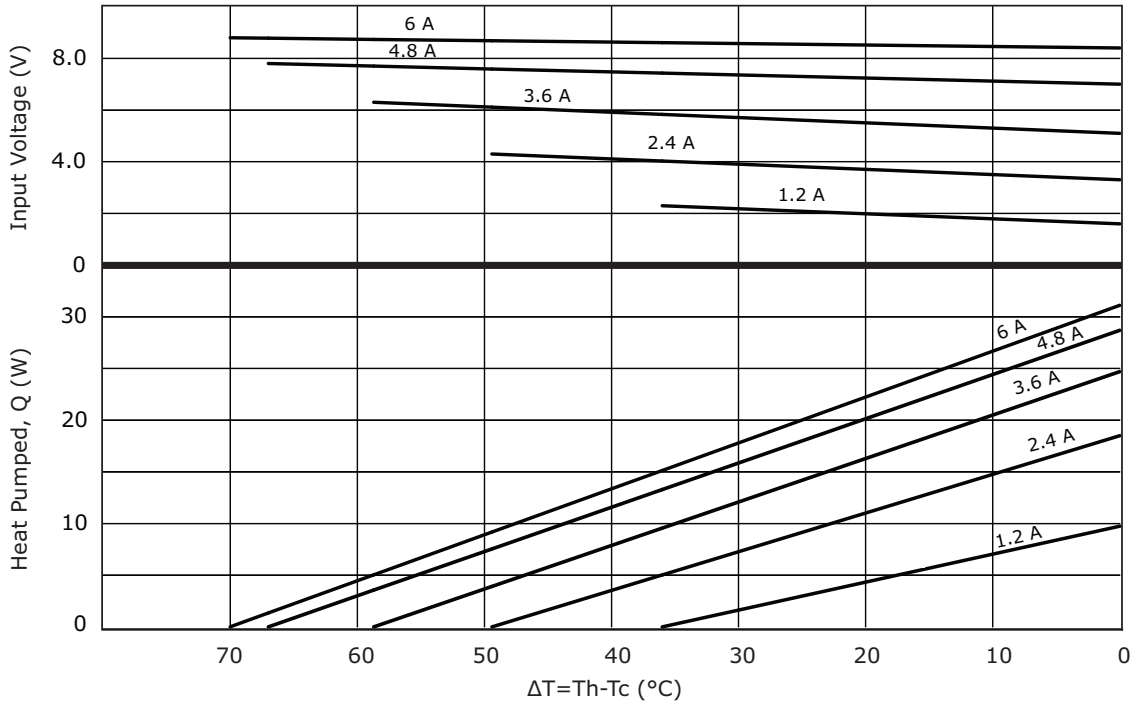
CP6030395 PERFORMANCE (Th=27°C)



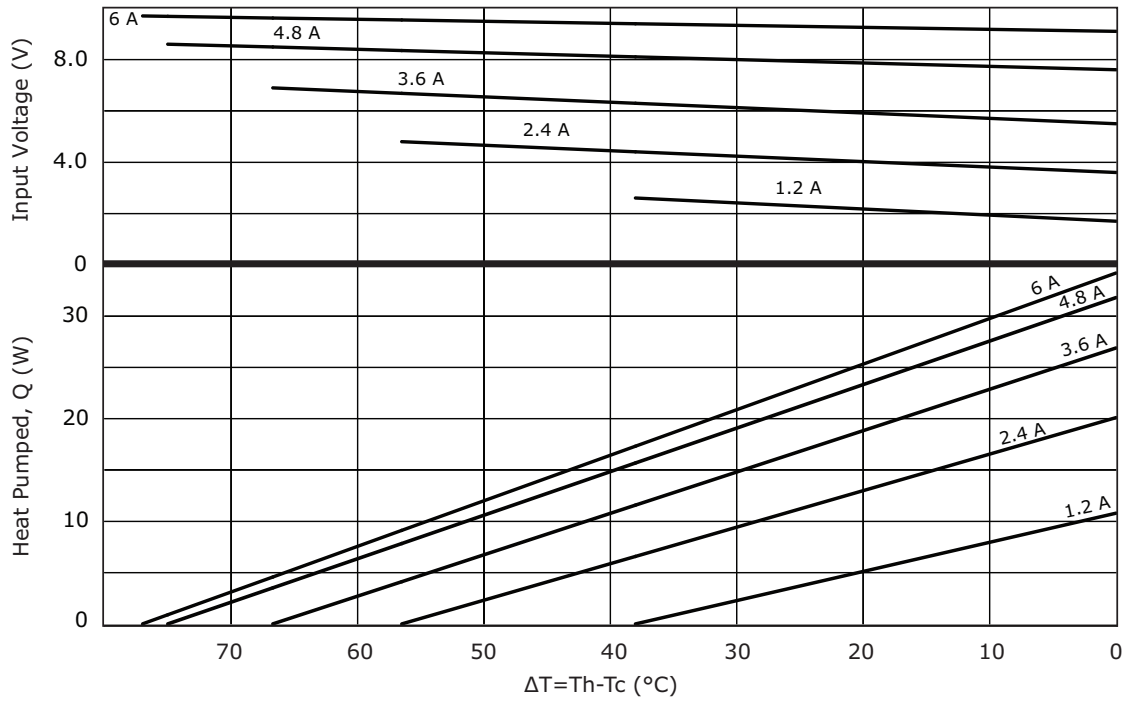
CP6030395 PERFORMANCE (Th=50°C)



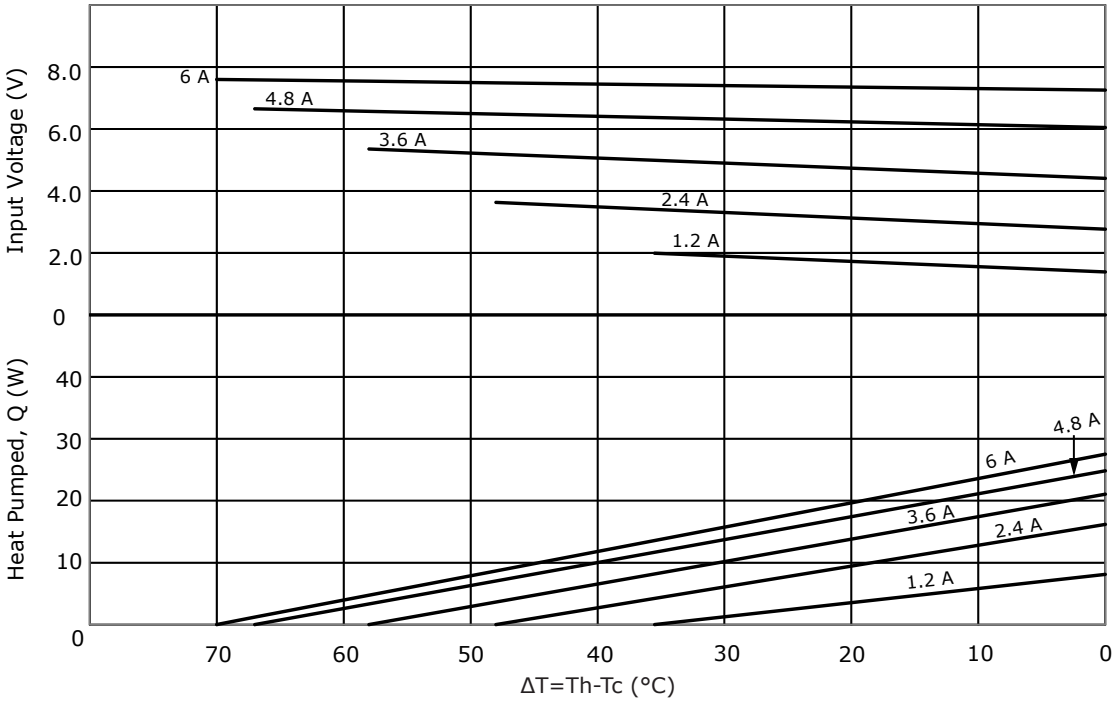
CP603395H PERFORMANCE (Th=27°C)



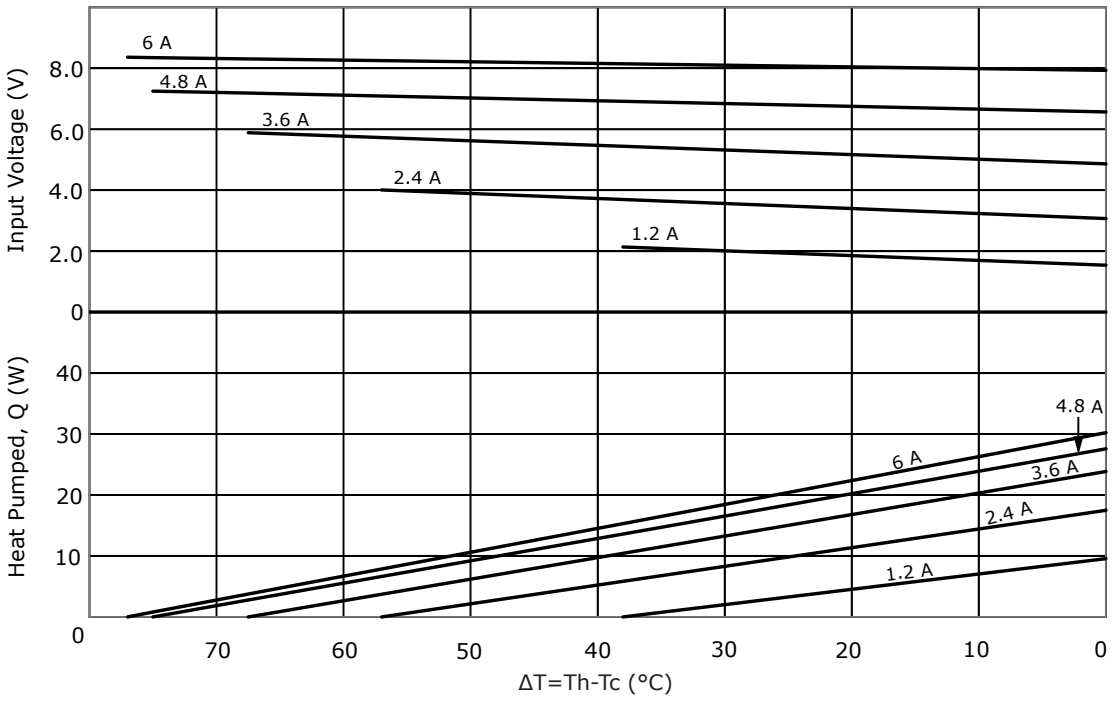
CP603395H PERFORMANCE (Th=50°C)



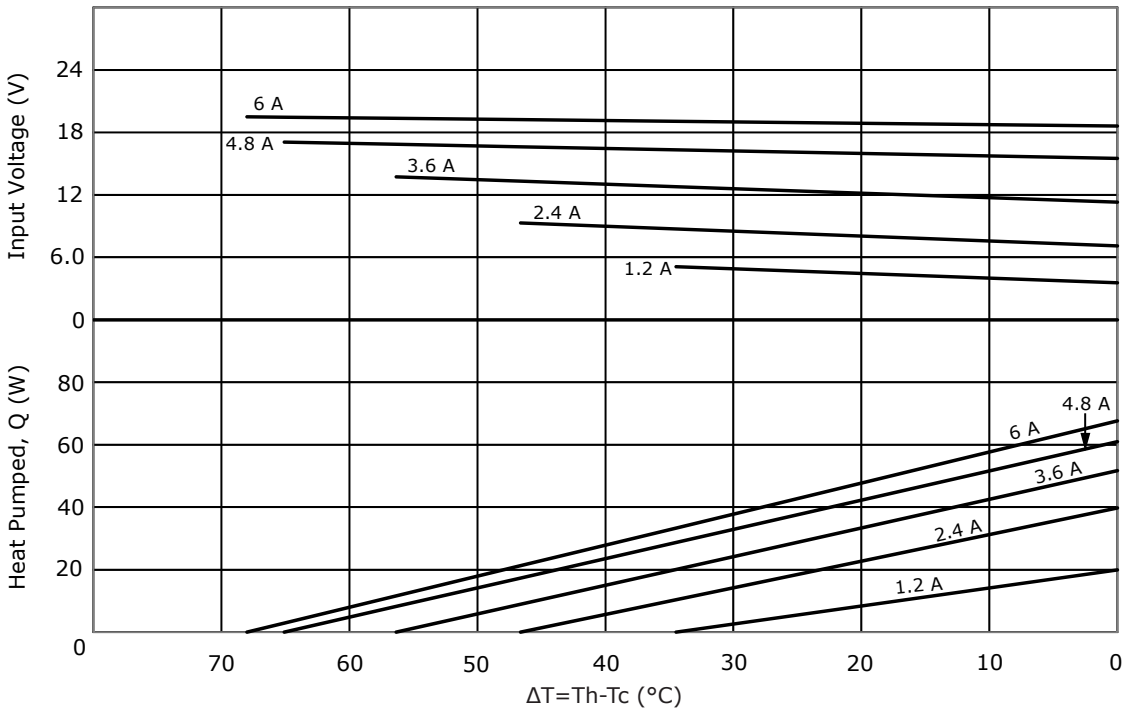
CP604020395H PERFORMANCE (Th=27°C)



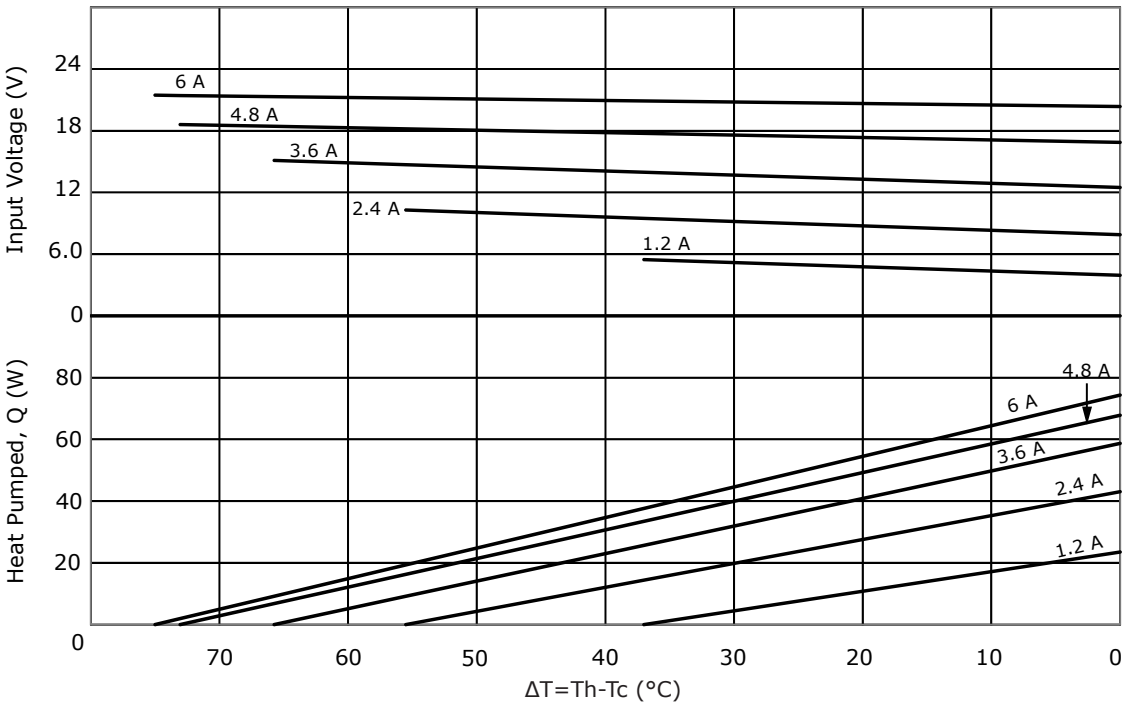
CP604020395H PERFORMANCE (Th=50°C)



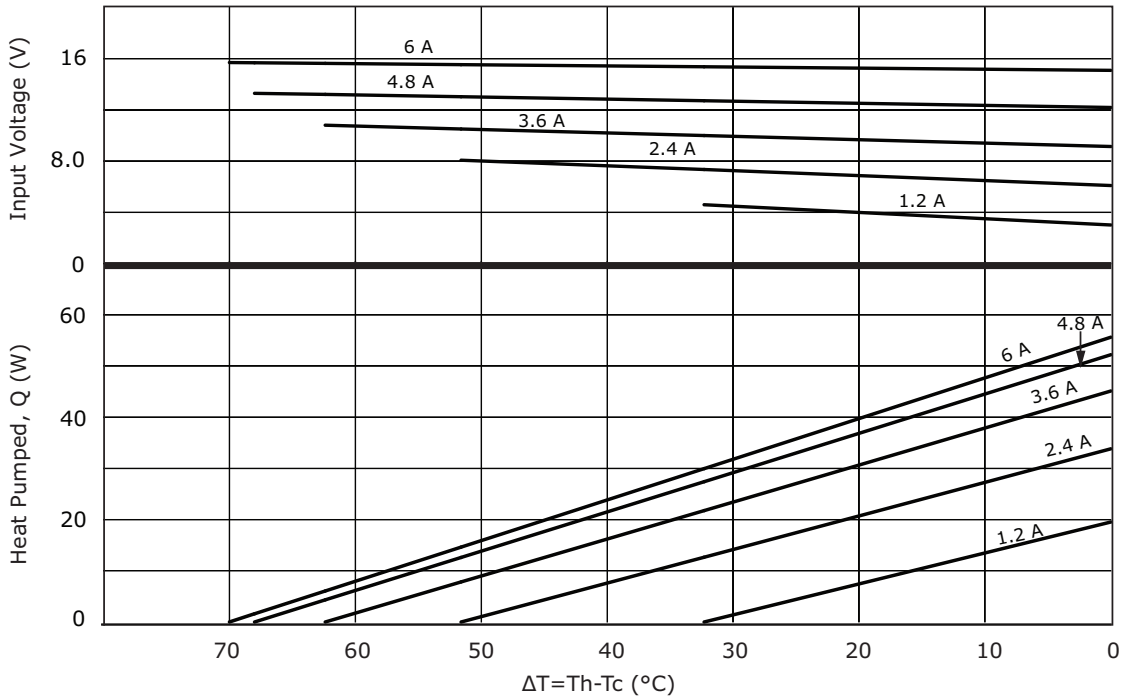
CP60433H PERFORMANCE (Th=27°C)



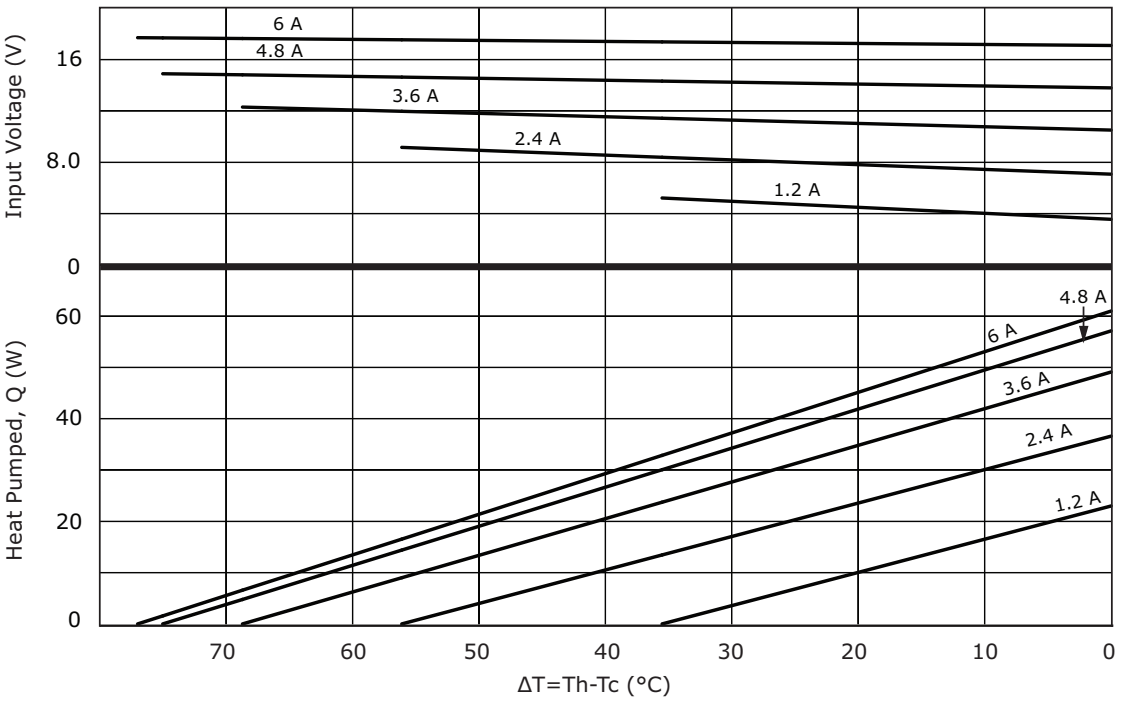
CP60433H PERFORMANCE (Th=50°C)



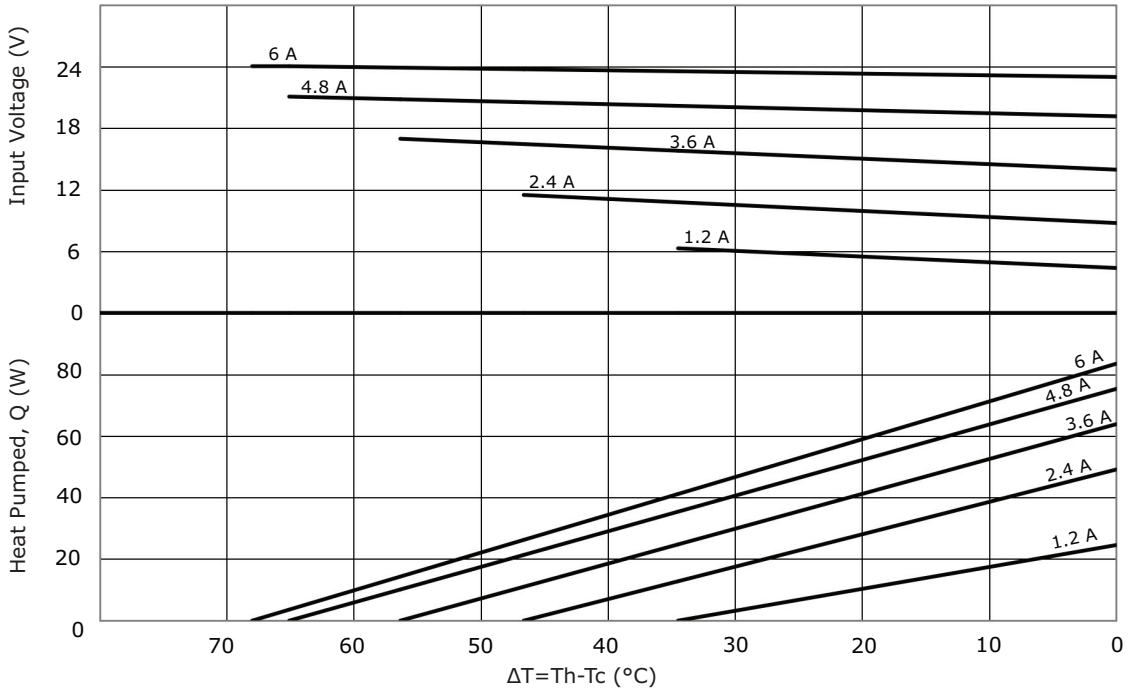
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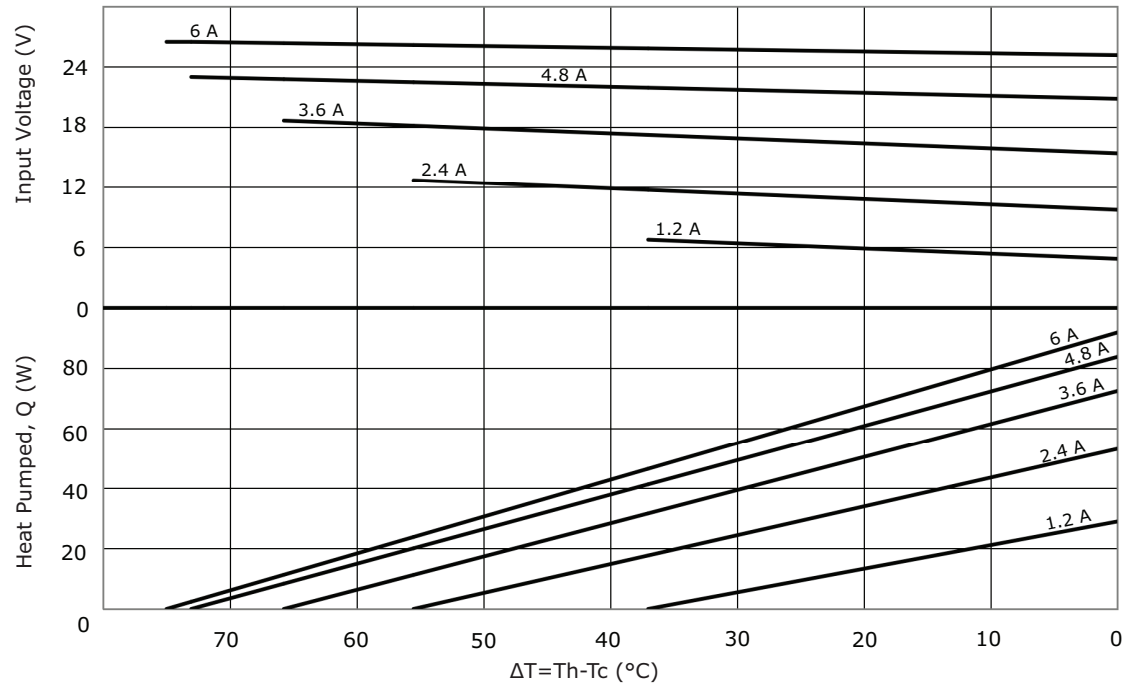
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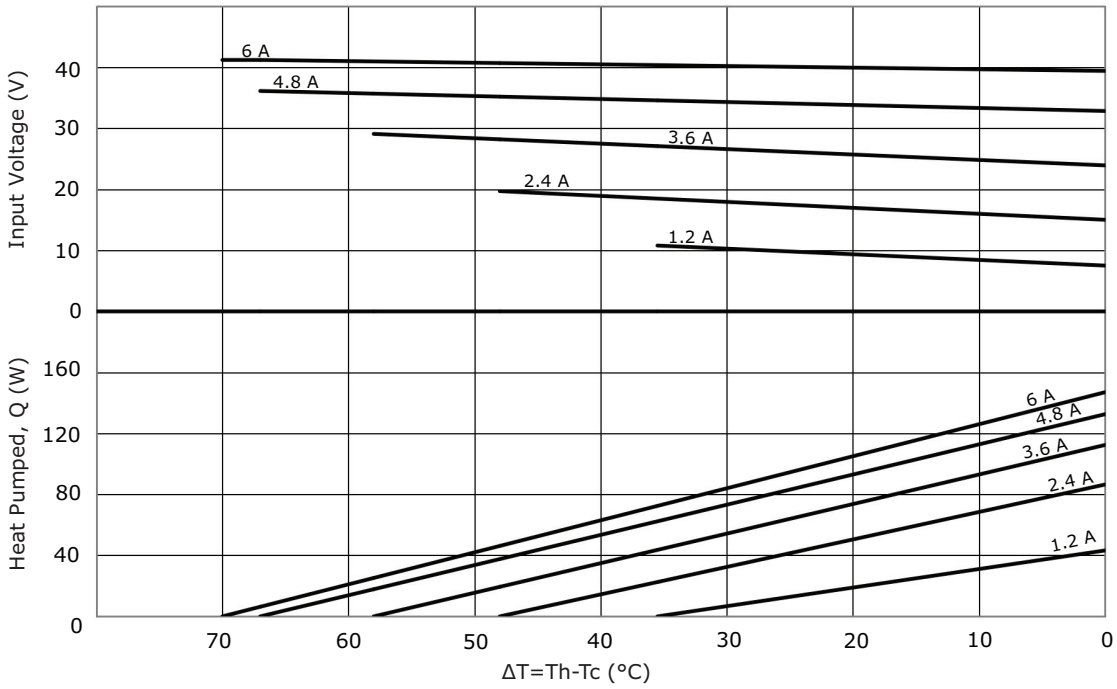
CP604040 PERFORMANCE (Th=27°C)



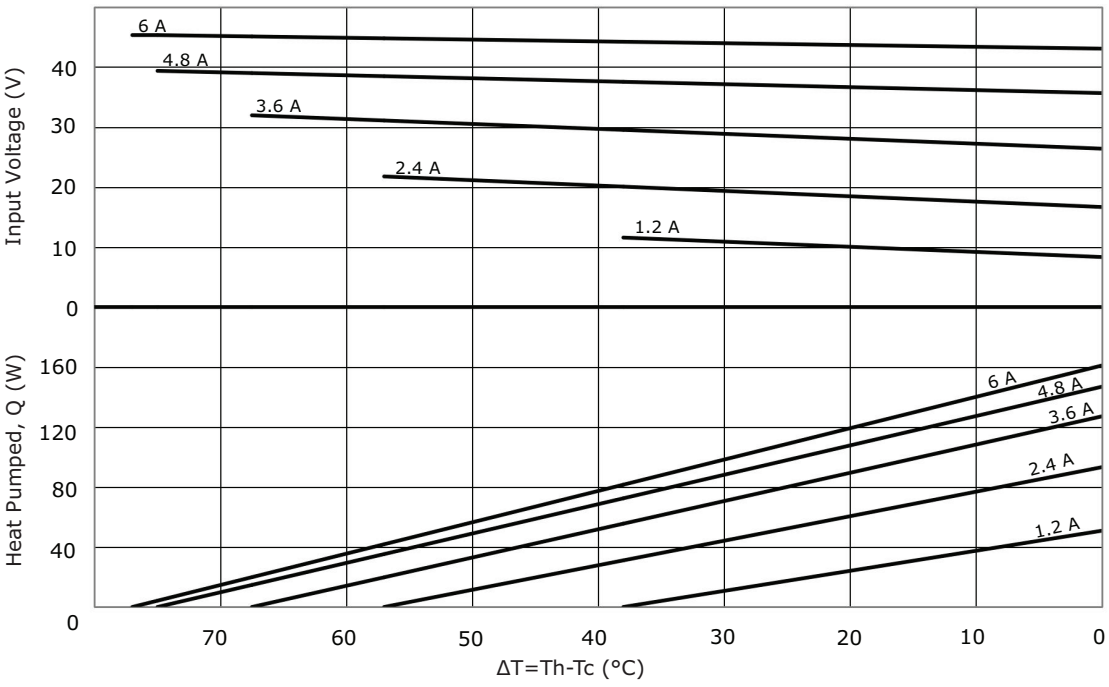
CP604040 PERFORMANCE (Th=50°C)



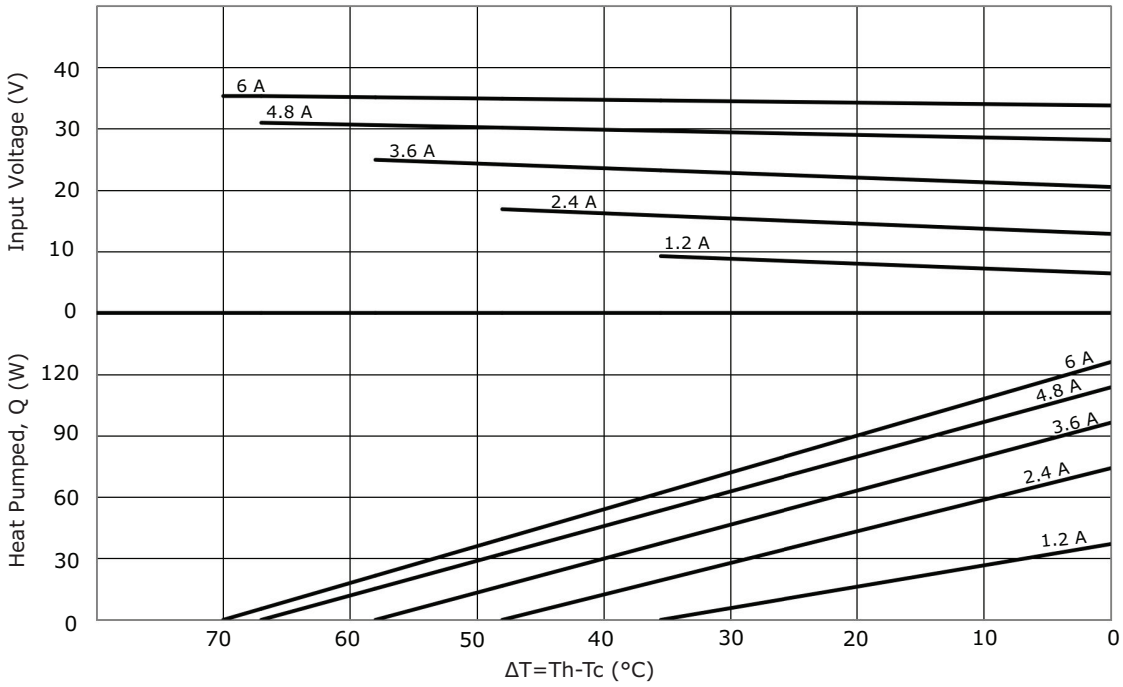
CP60546241 PERFORMANCE (Th=27°C)



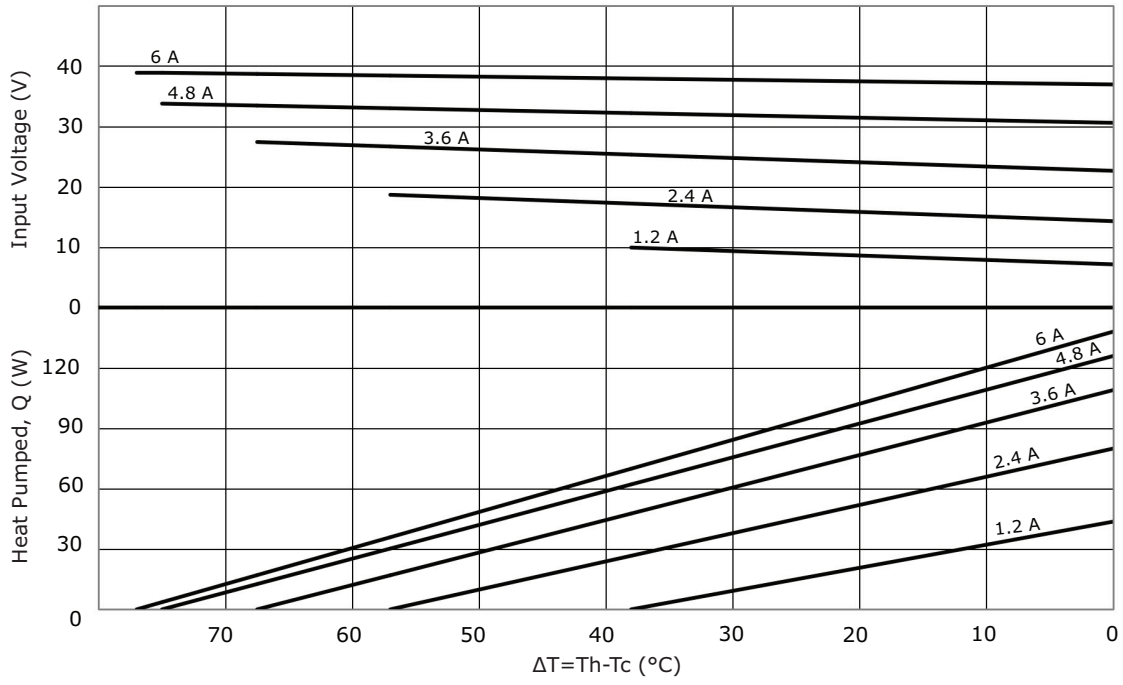
CP60546241 PERFORMANCE (Th=50°C)



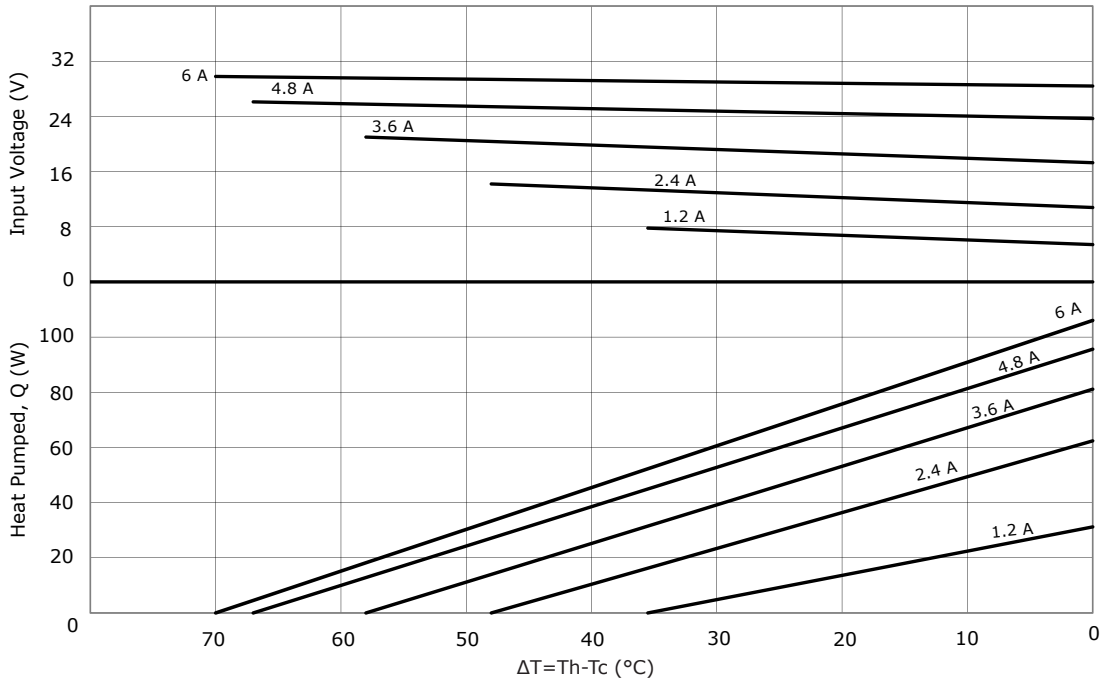
CP6055354 PERFORMANCE (Th=27°C)



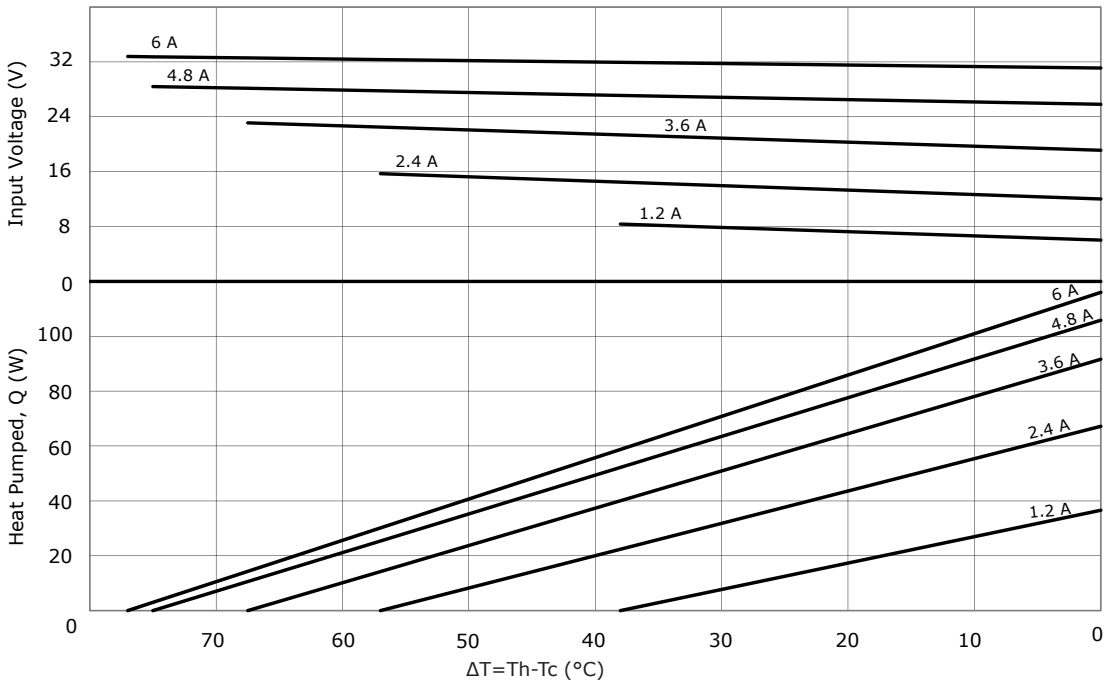
CP6055354 PERFORMANCE (Th=50°C)



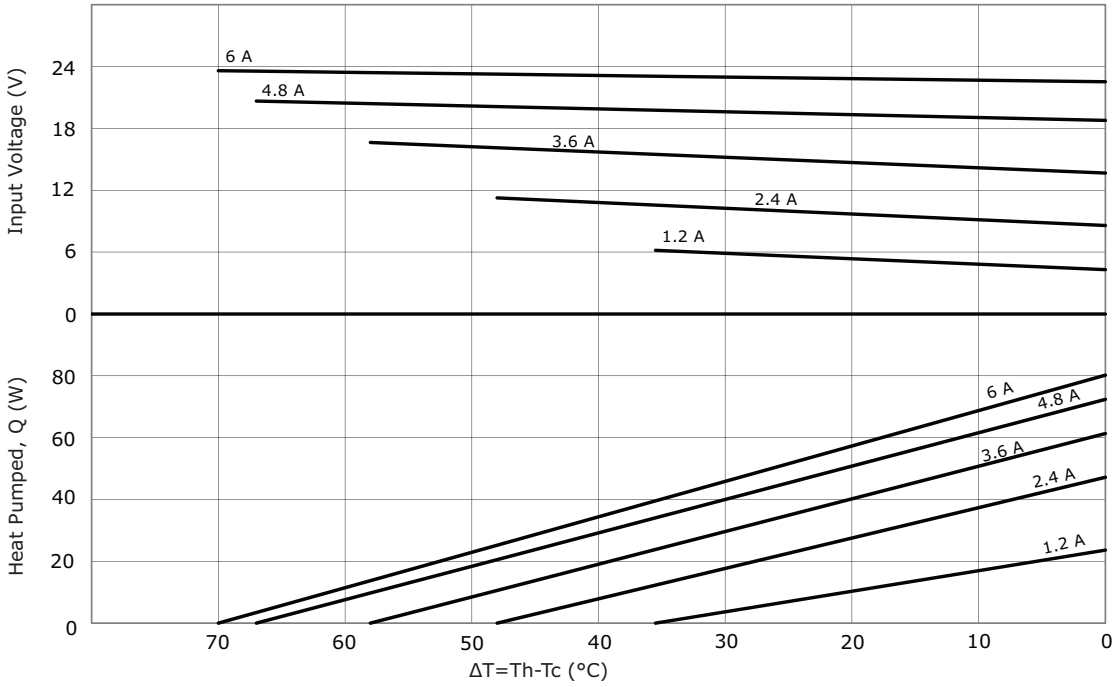
CP60555542 PERFORMANCE (Th=27°C)



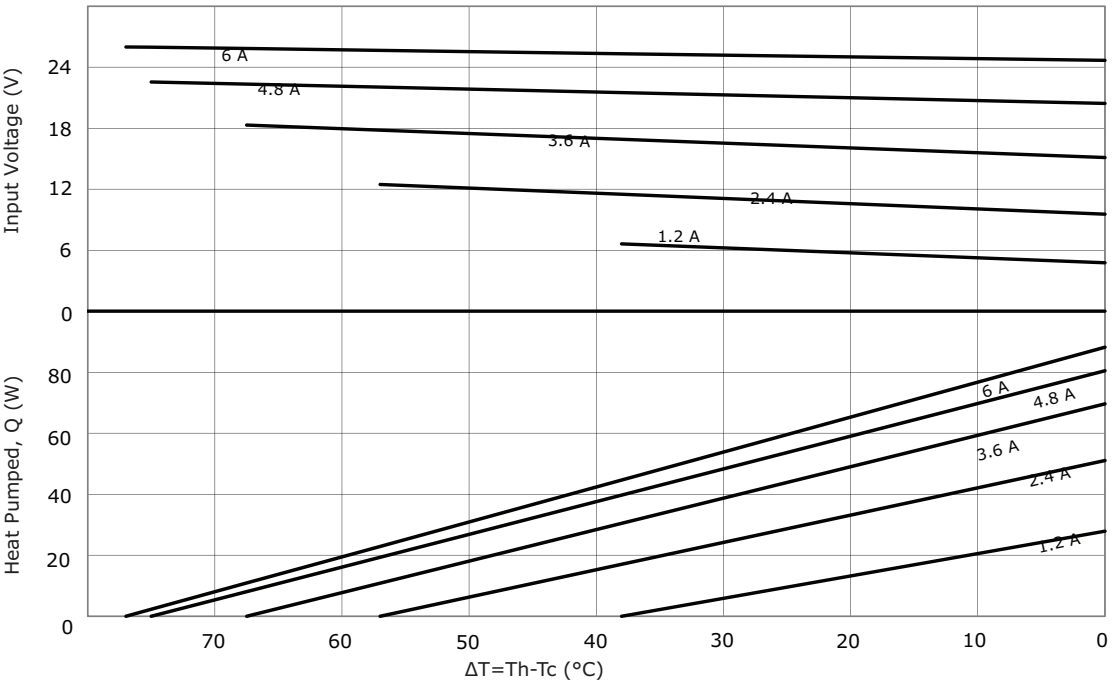
CP60555542 PERFORMANCE (Th=50°C)



CP604060395 PERFORMANCE (Th=27°C)



CP604060395 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	updated datasheet	09/25/2017
1.02	added new models	05/21/2018
1.03	added models CP604060395, CP60555542, CP6030395, CP604040, CP6055354, CP60546241, brand update	10/22/2019
1.04	added model CP60302031H	11/12/2020
1.05	logo, datasheet style update	08/05/2022
1.06	CUI Devices rebranded to Same Sky	09/12/2024

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

same sky

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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