



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



MODEL

	input voltage ¹ max [Vdc]	input current ² max [A]	internal resistance ³ typ [$\Omega \pm 10\%$]	output Qmax ⁴		output ΔT max ⁵	
				T _h =27°C [W]	T _h =50°C [W]	T _h =27°C [°C]	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 $\Delta T=0^{\circ}\text{C}$
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

THICKNESS

HOT SIDE

COLD SIDE

WIDTH

LENGTH

10.0±3.0

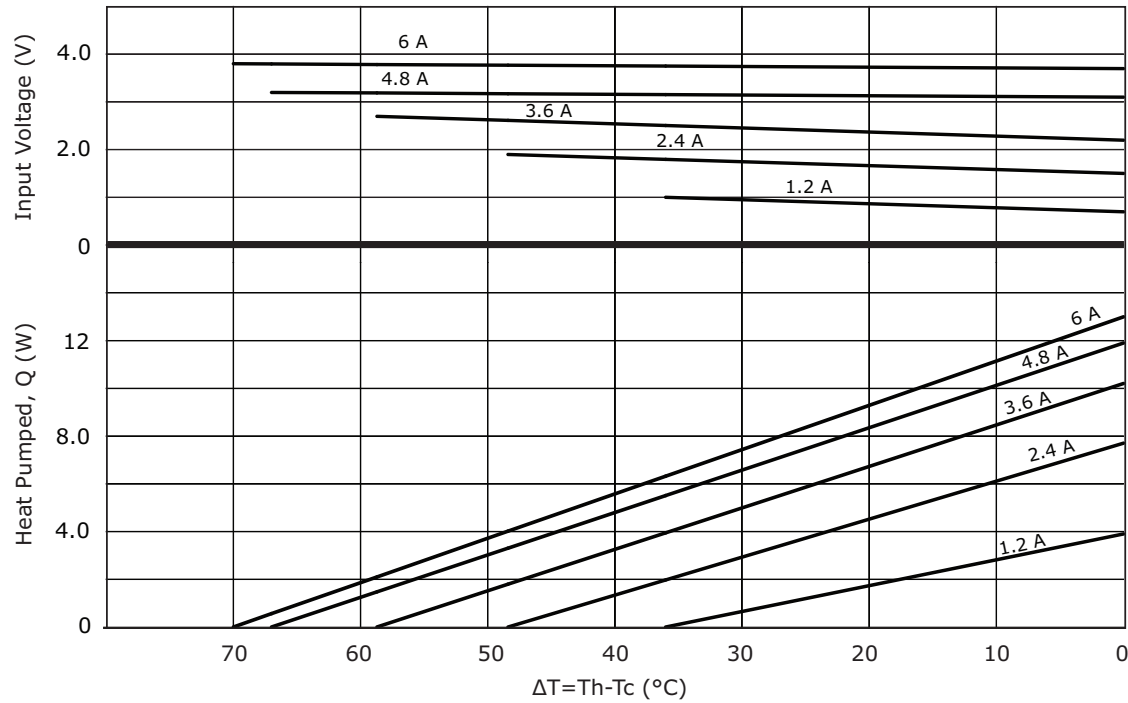
Red (+)

Black (-)

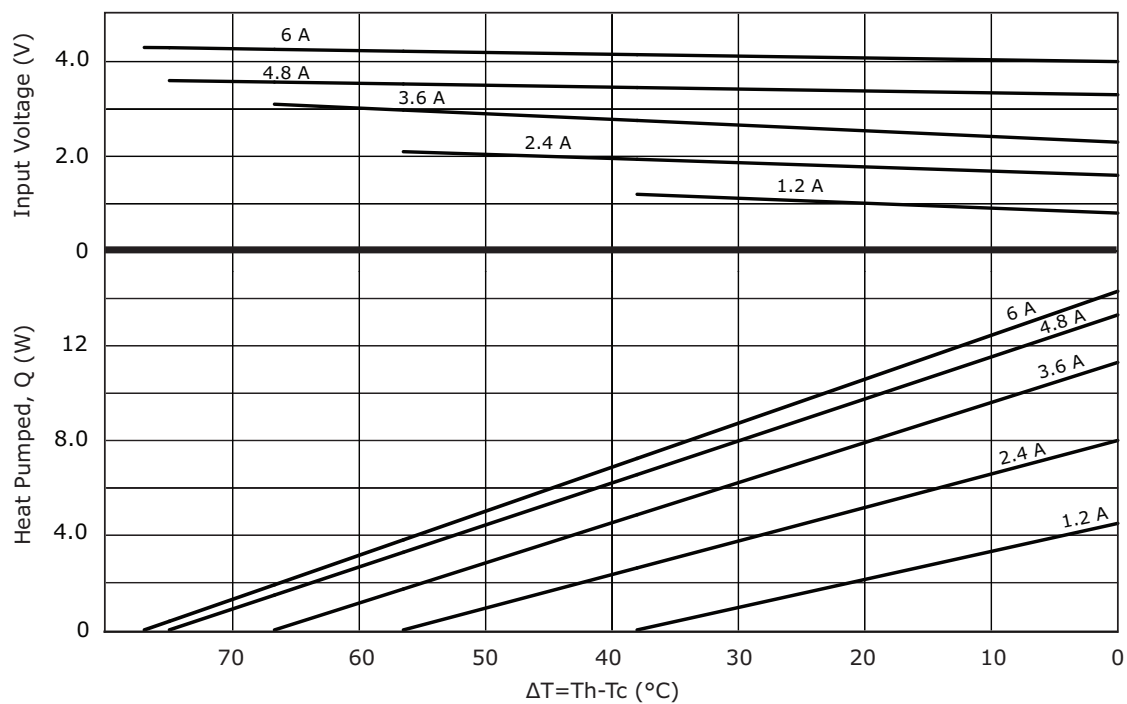
100.0±5.0

	MATERIAL	PLATING
ceramic plate	96% AL ₂ O 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	

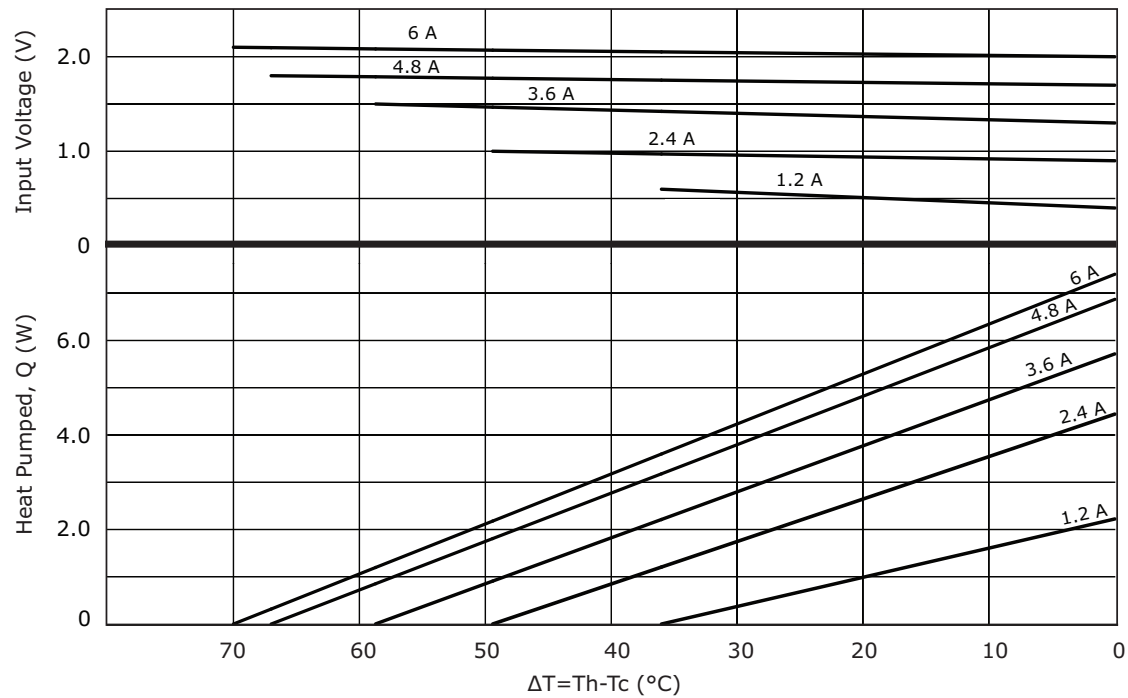
CP60131H PERFORMANCE (Th=27°C)



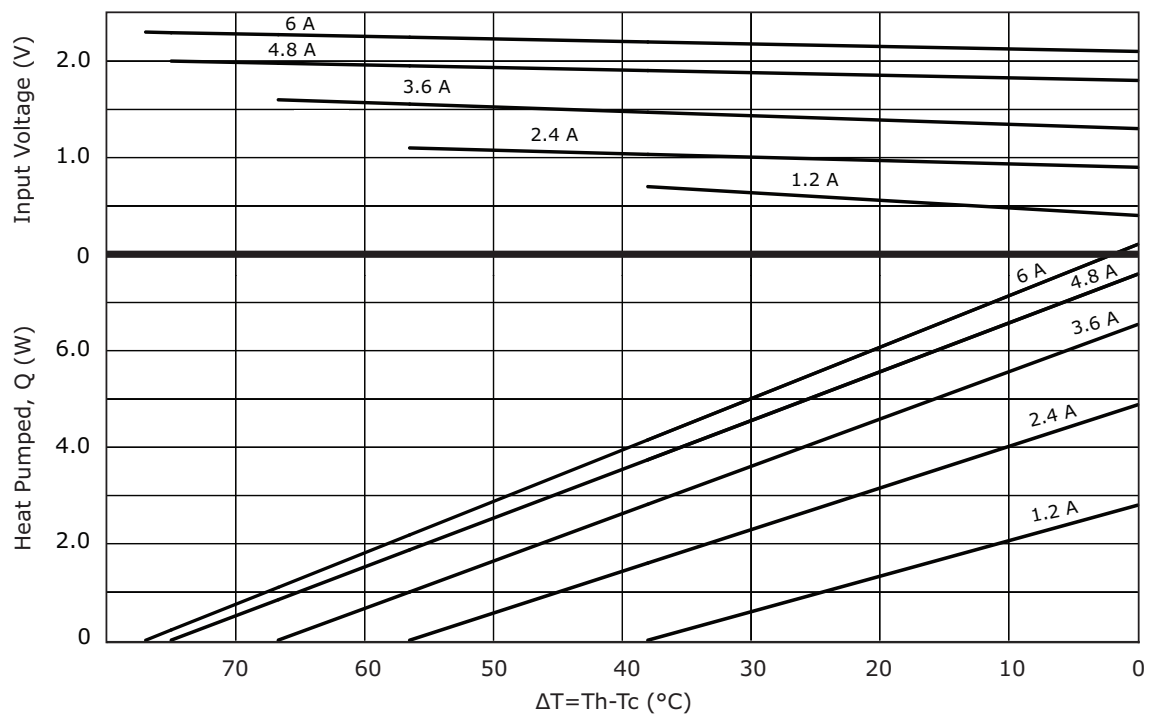
CP60131H PERFORMANCE (Th=50°C)



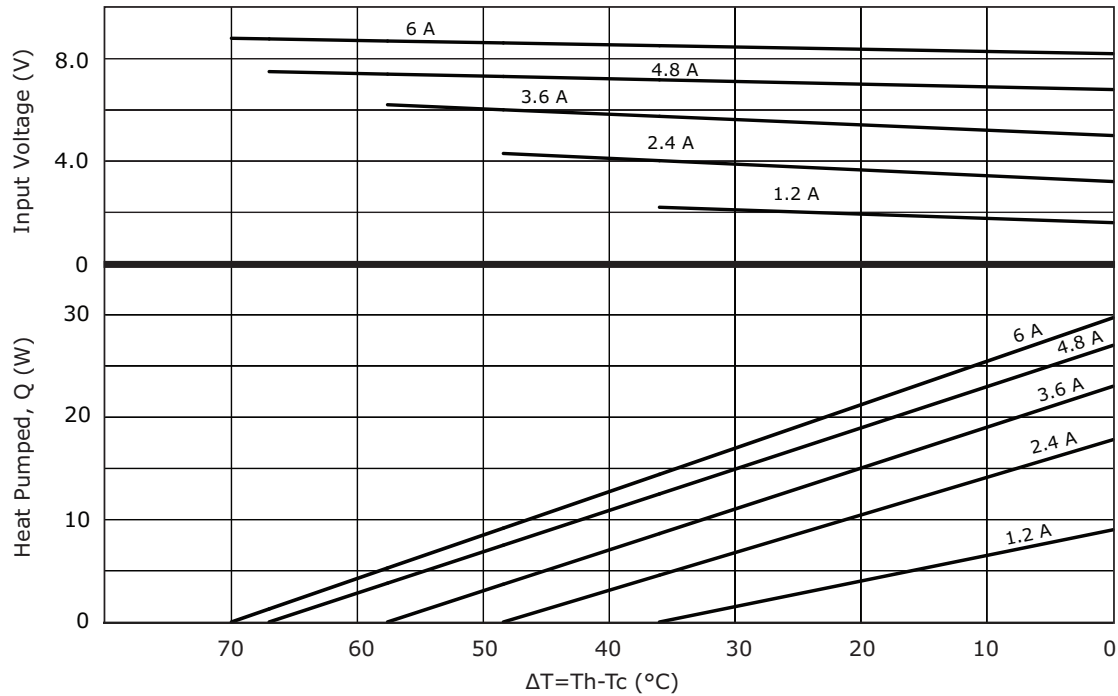
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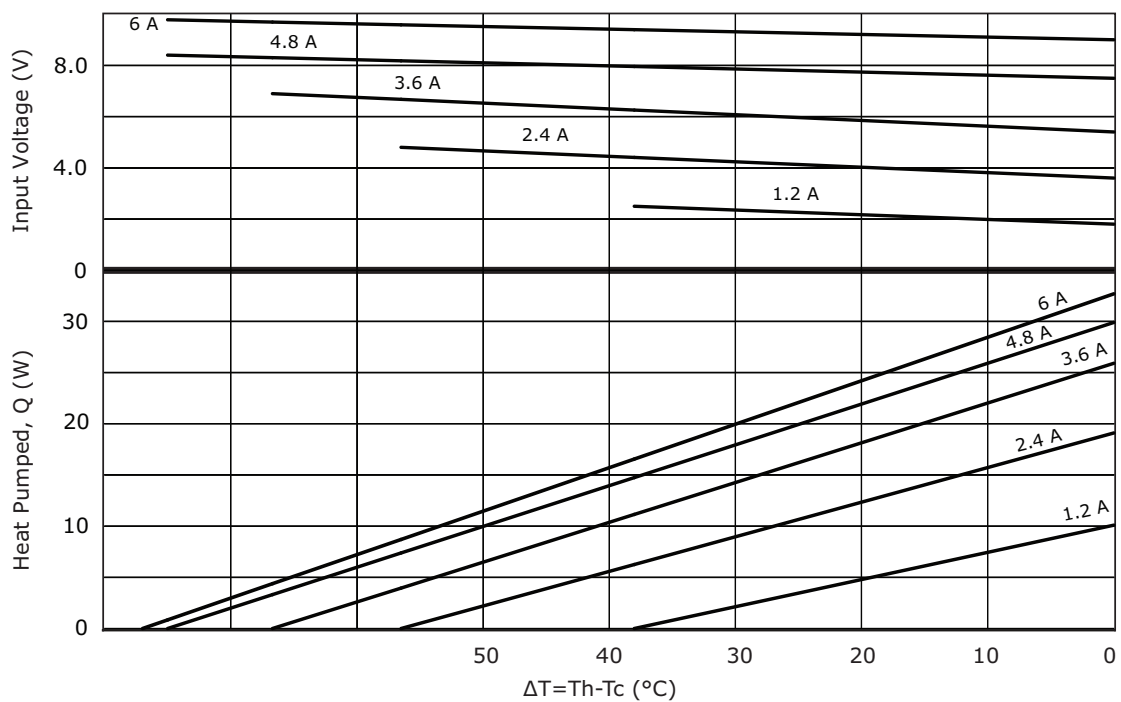
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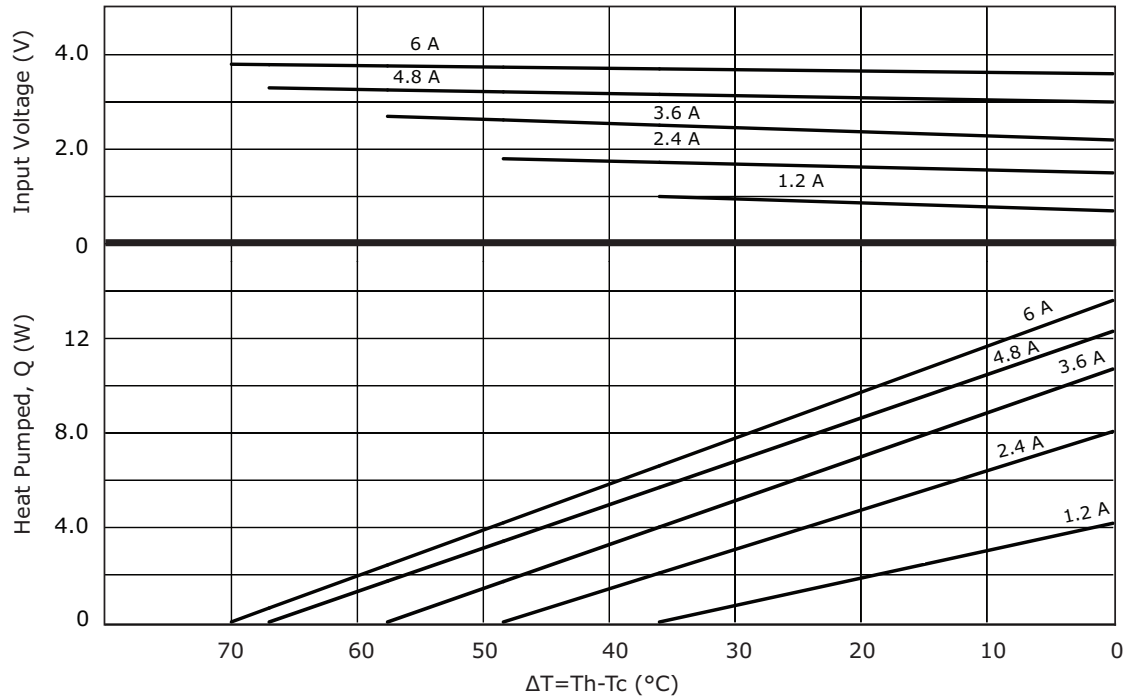
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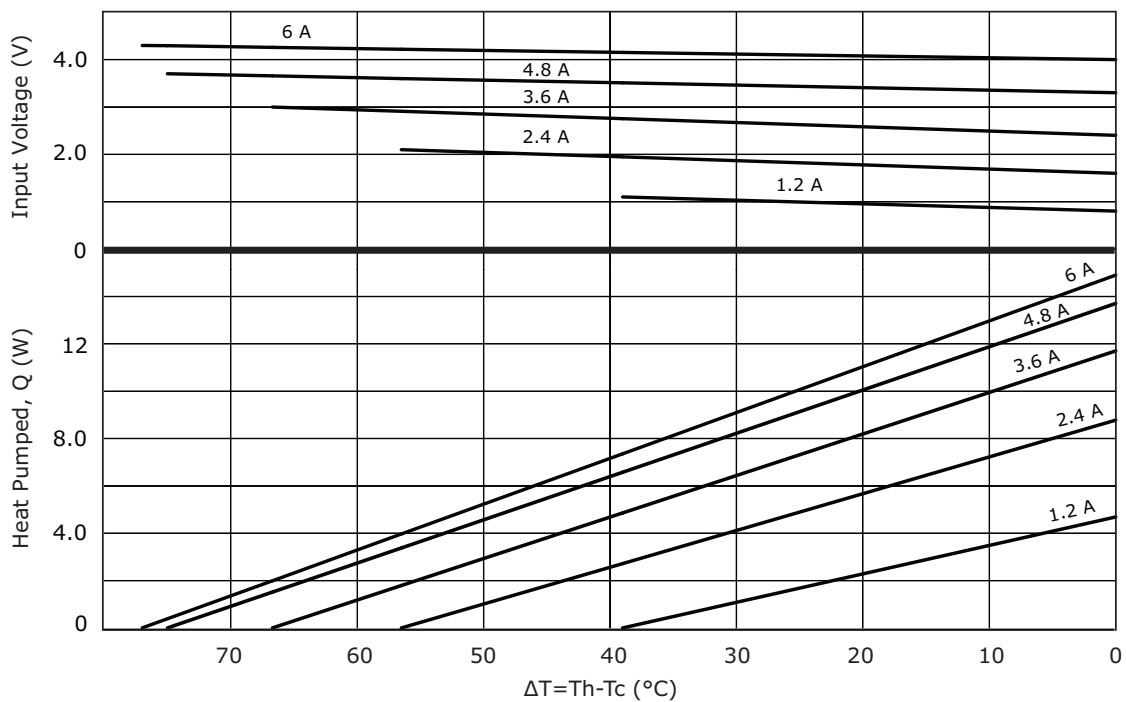
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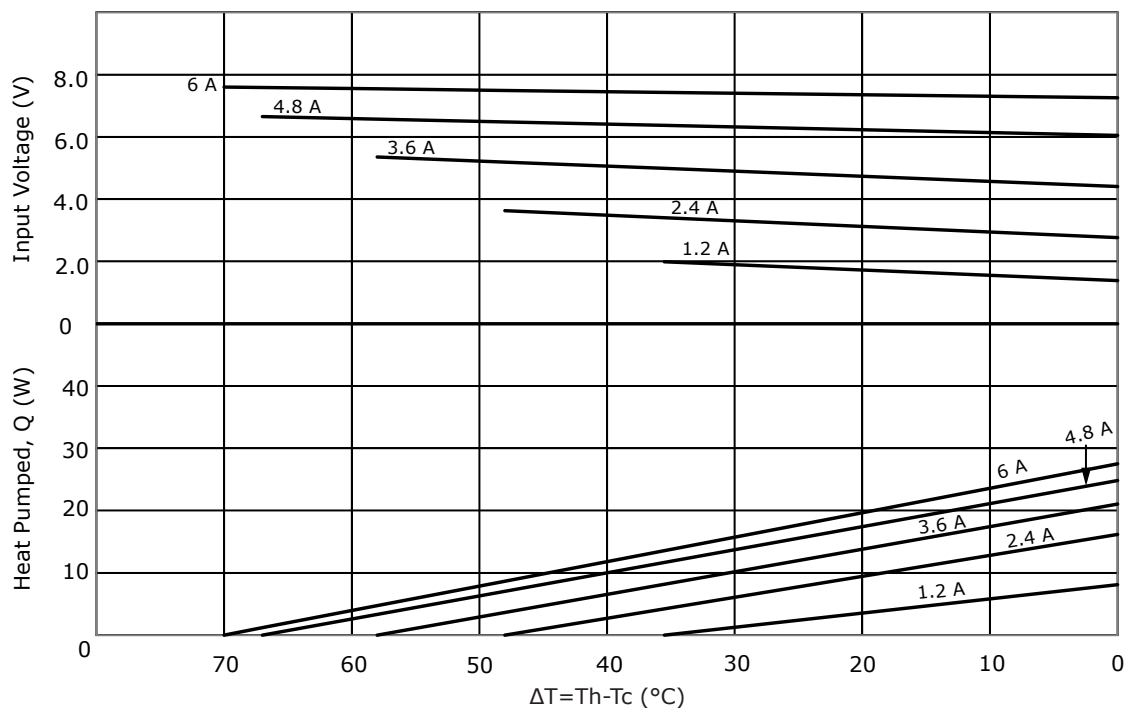
CP60239H PERFORMANCE (Th=27°C)



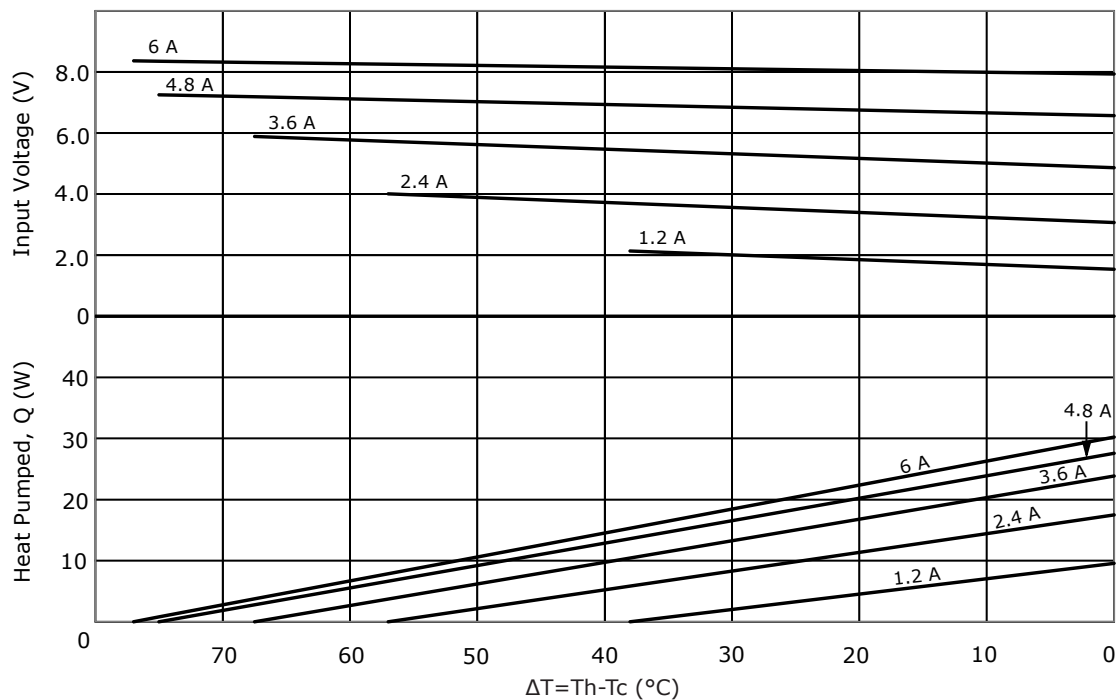
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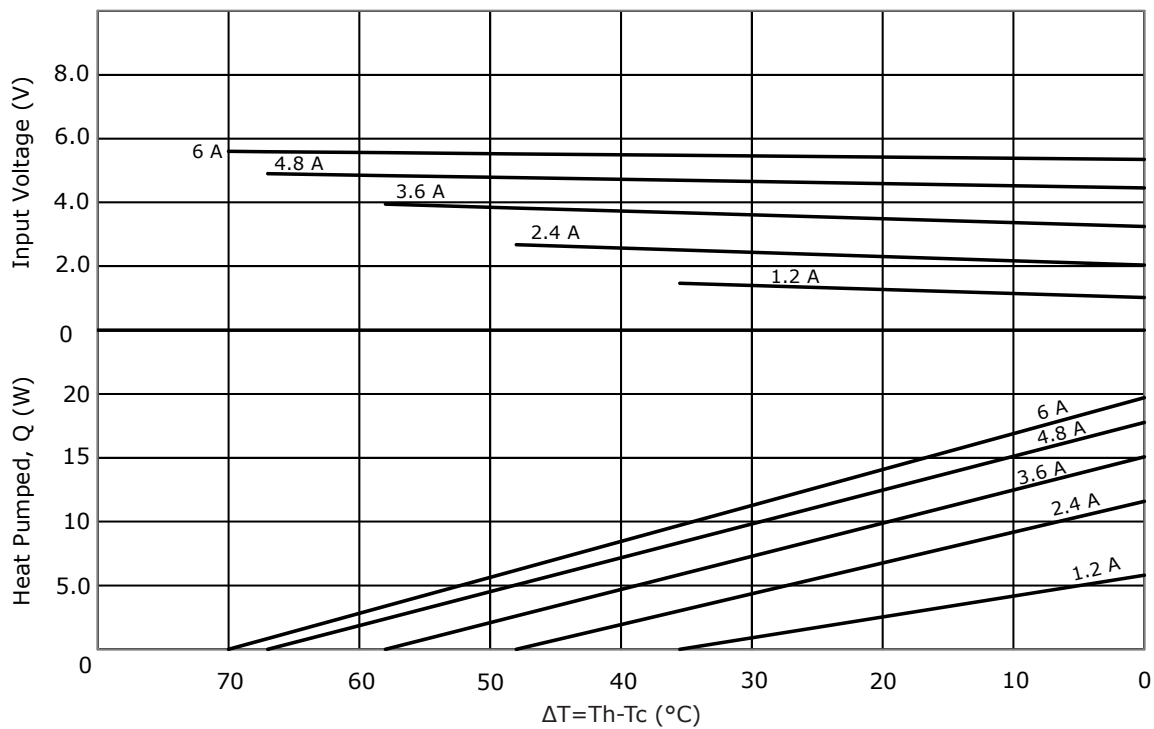
CP602040395H PERFORMANCE (Th=27°C)



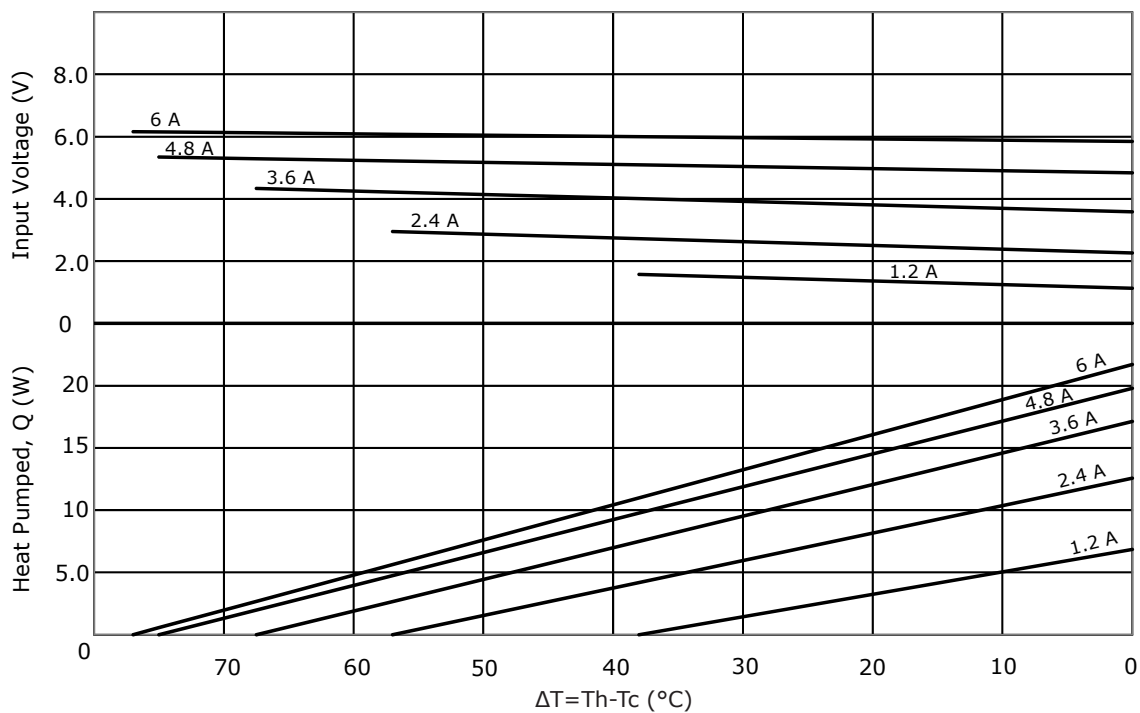
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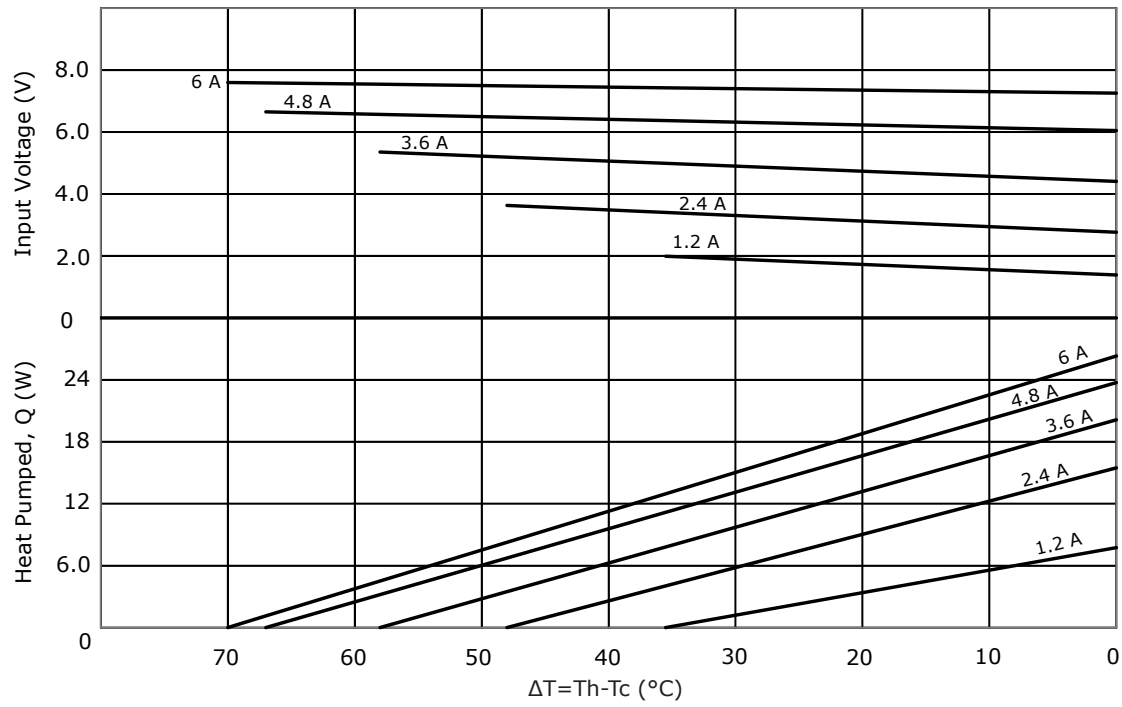
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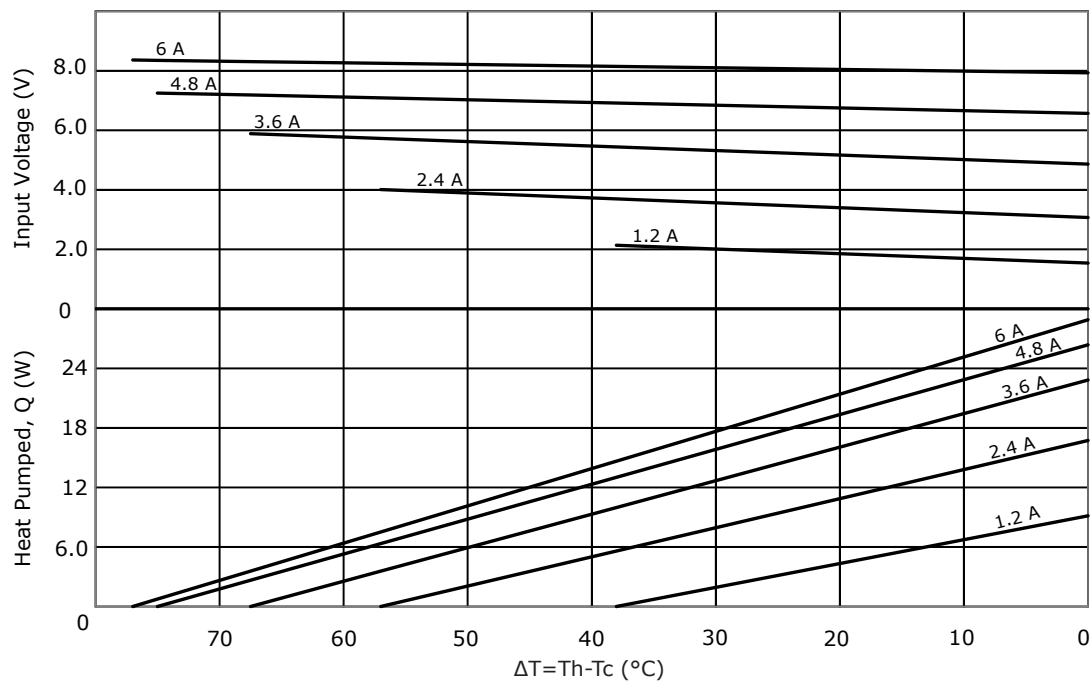
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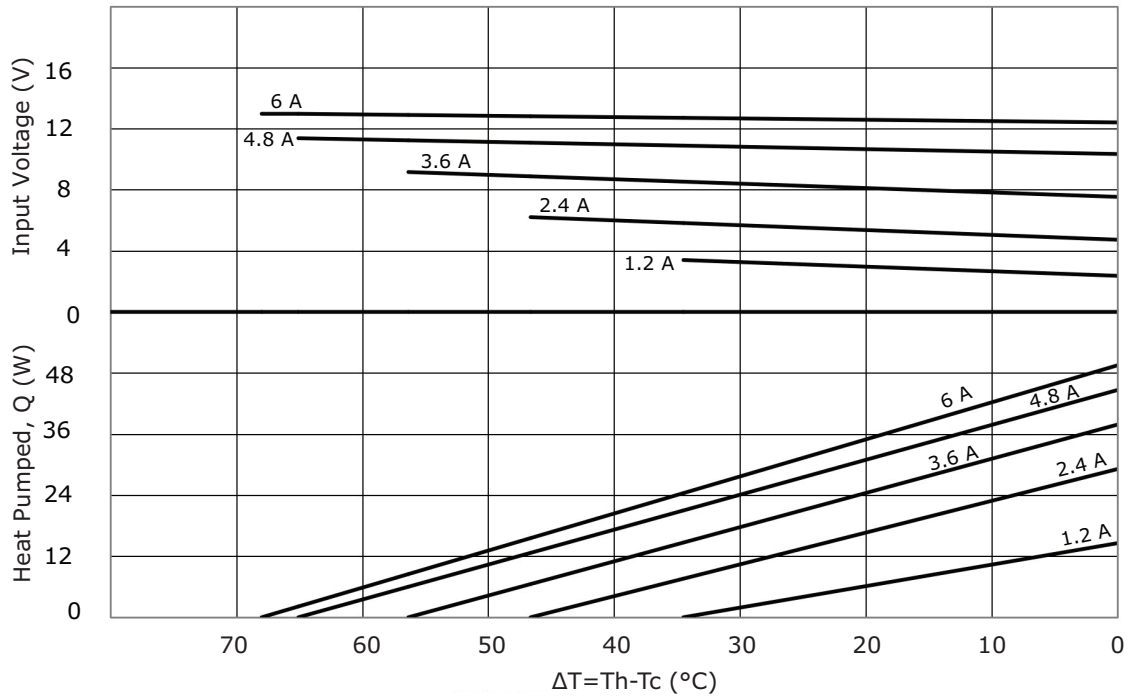
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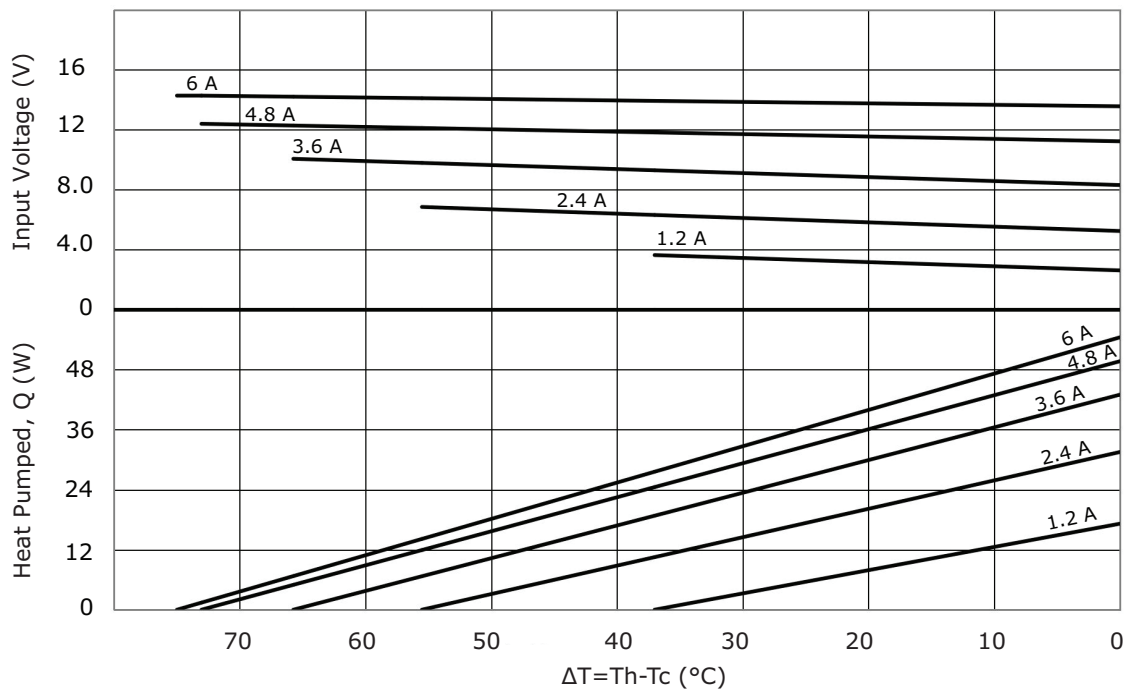
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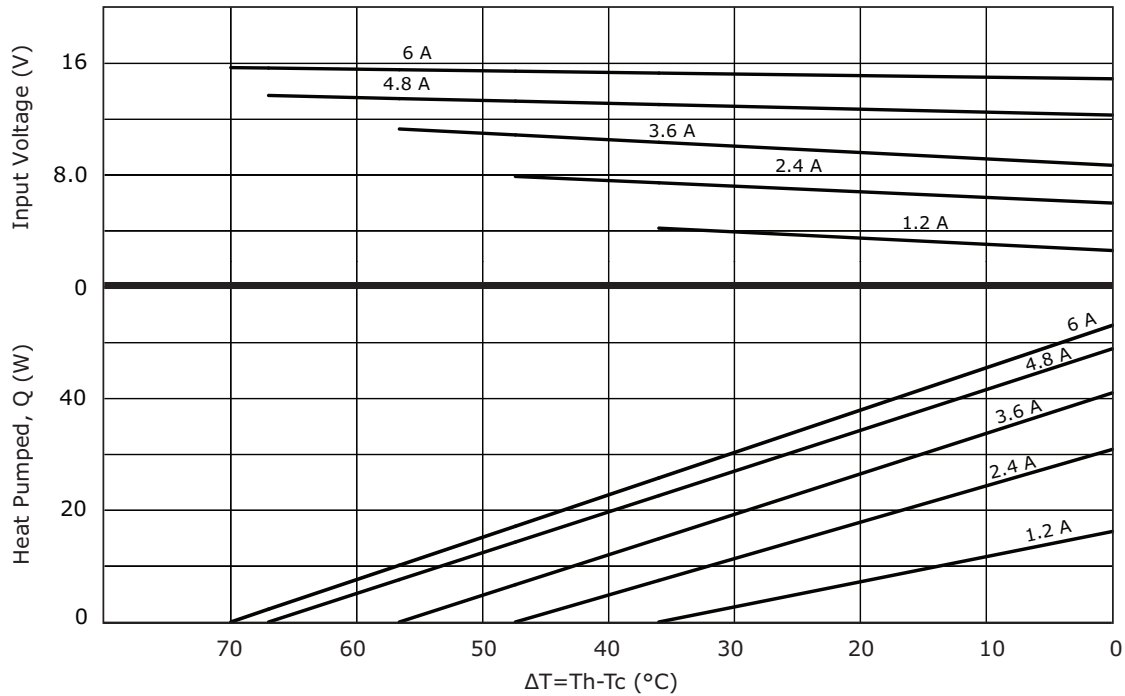
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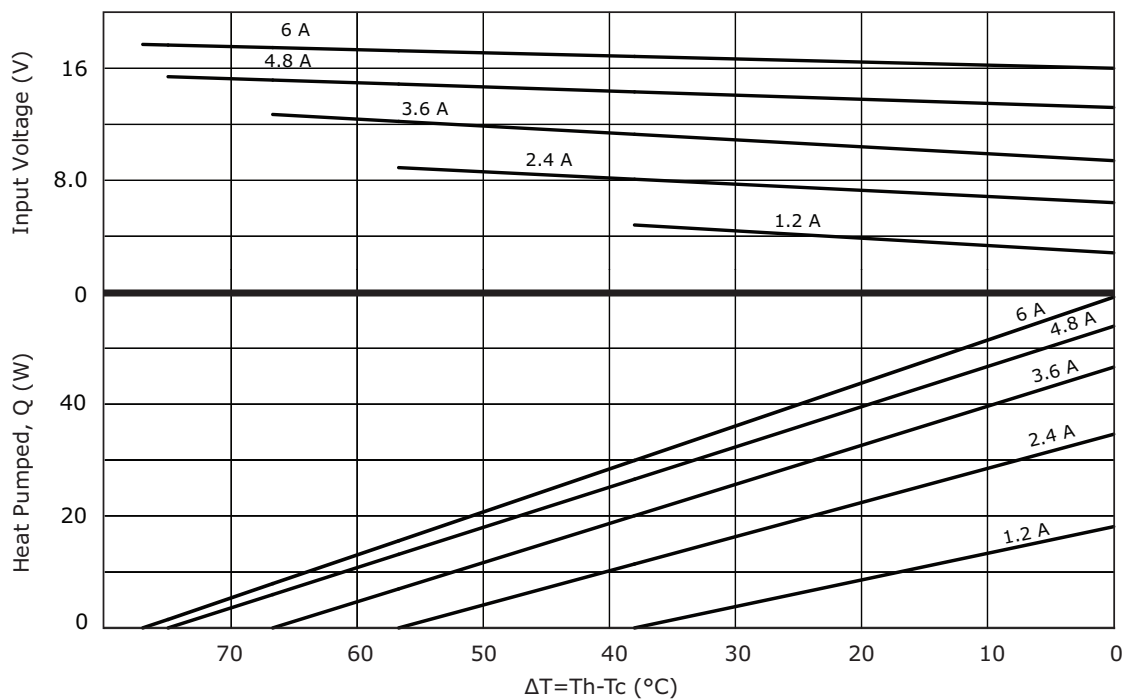
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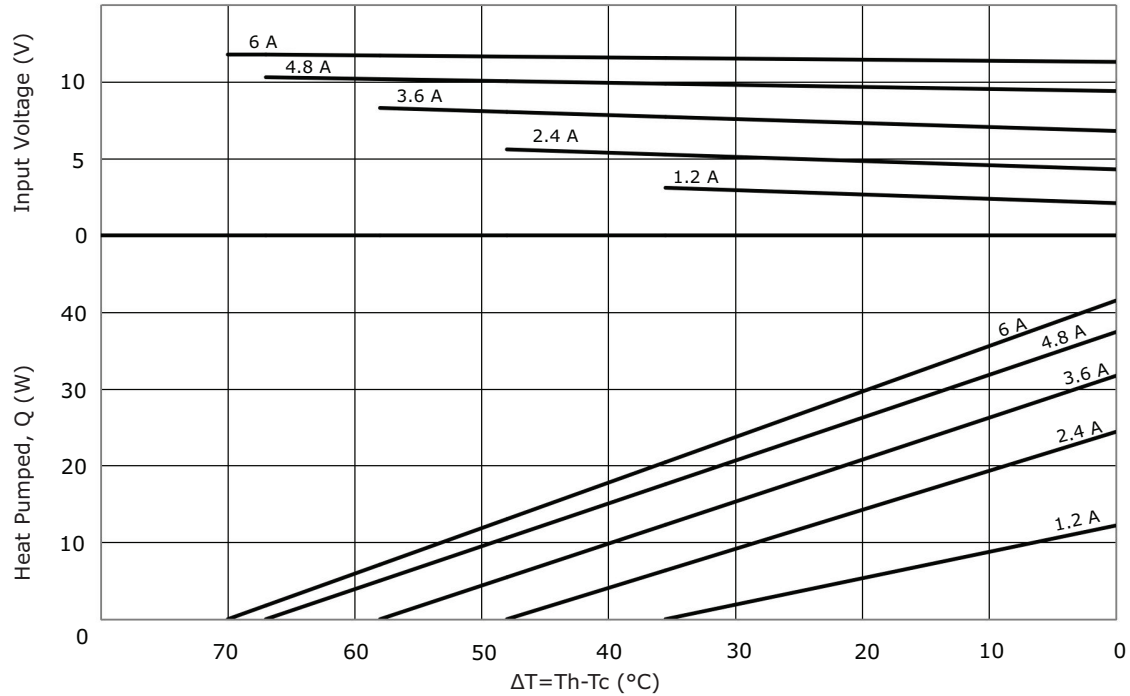
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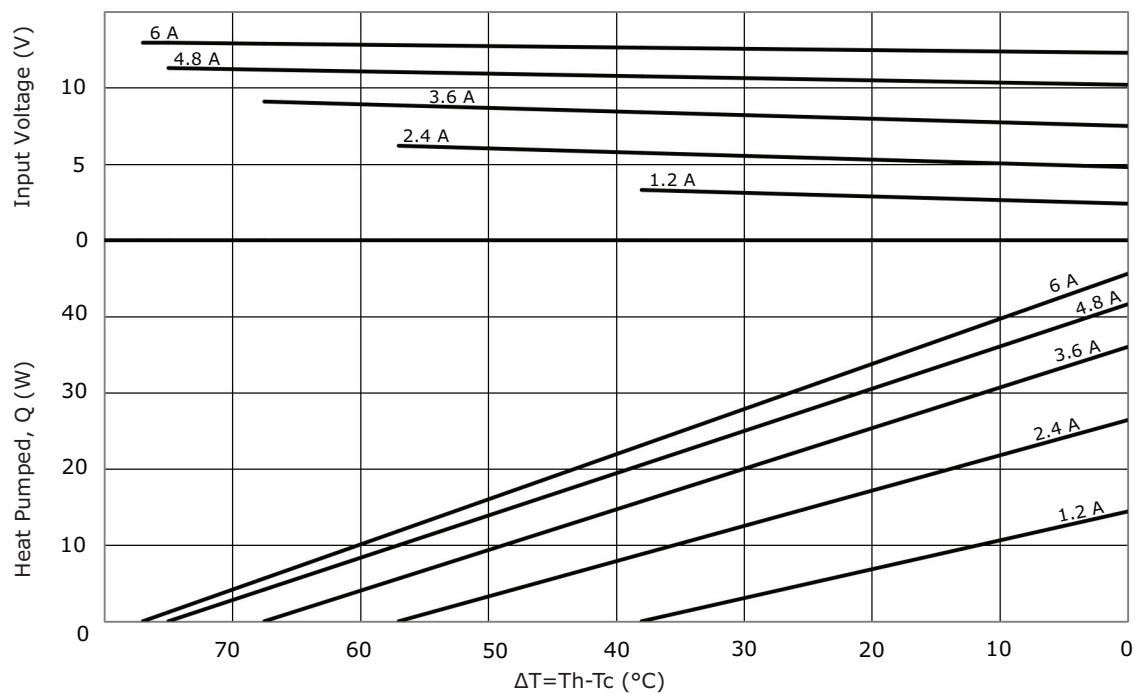
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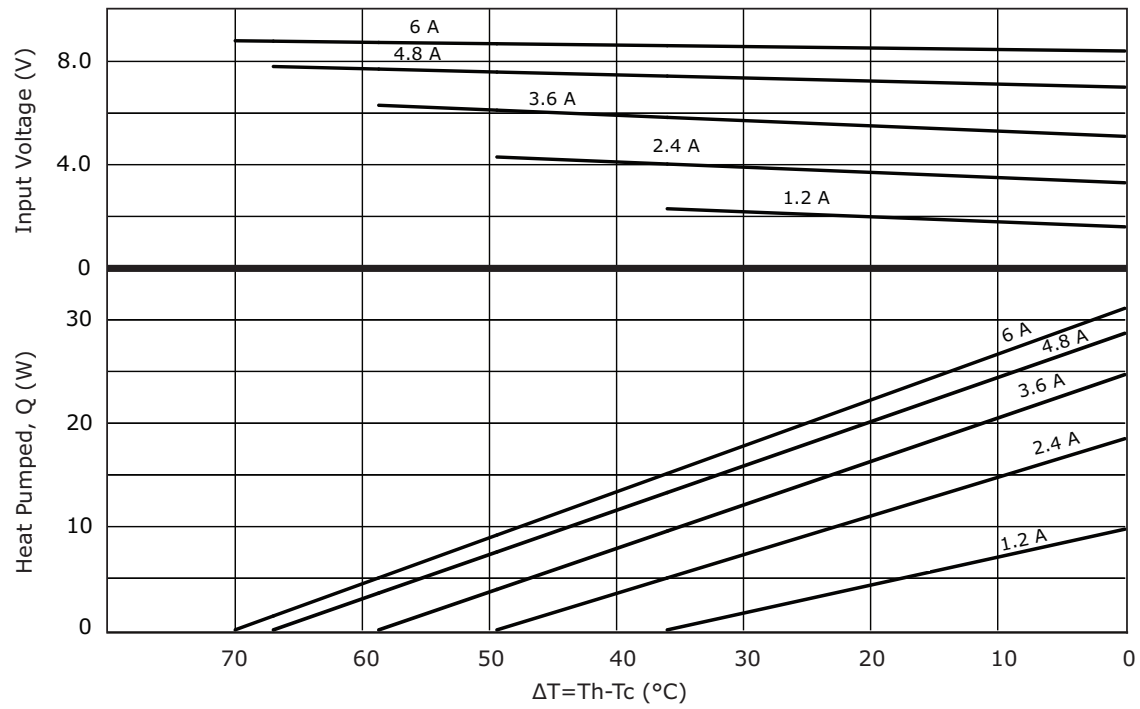
CP6030395 PERFORMANCE (Th=27°C)



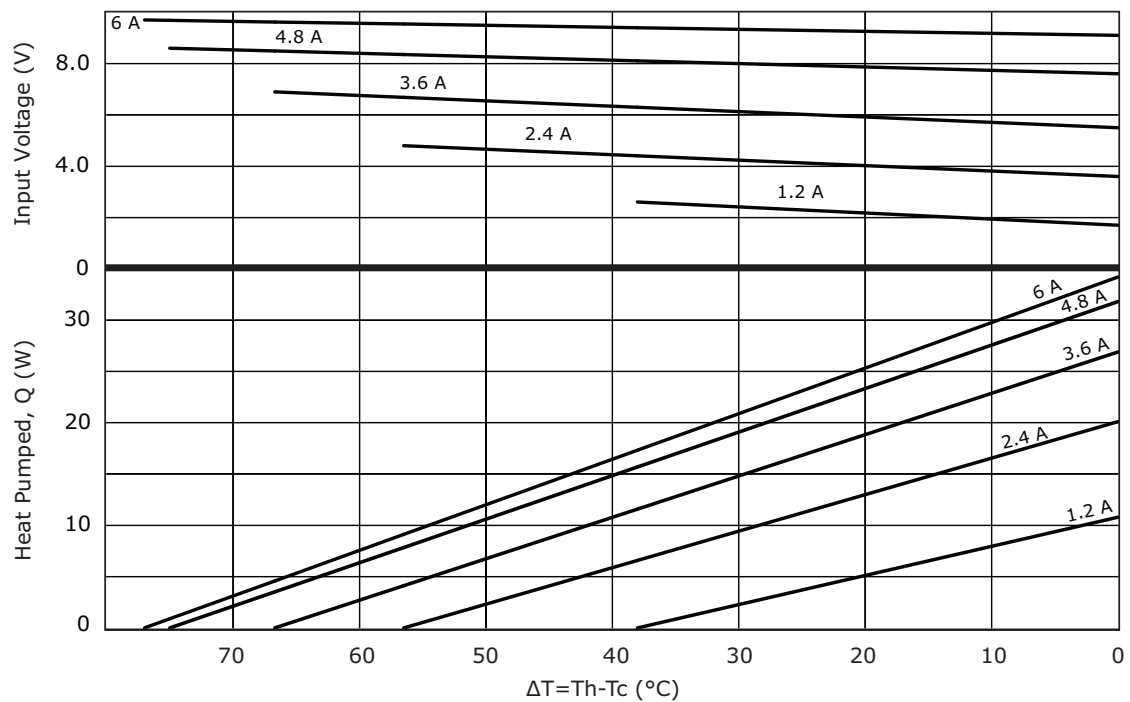
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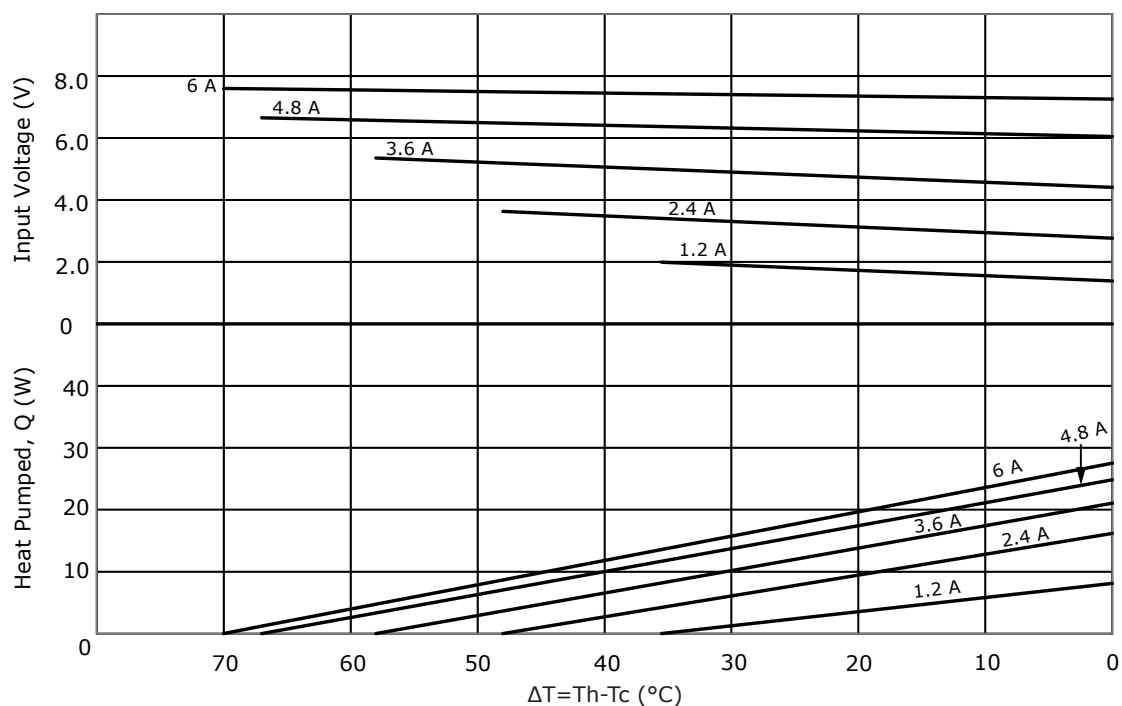
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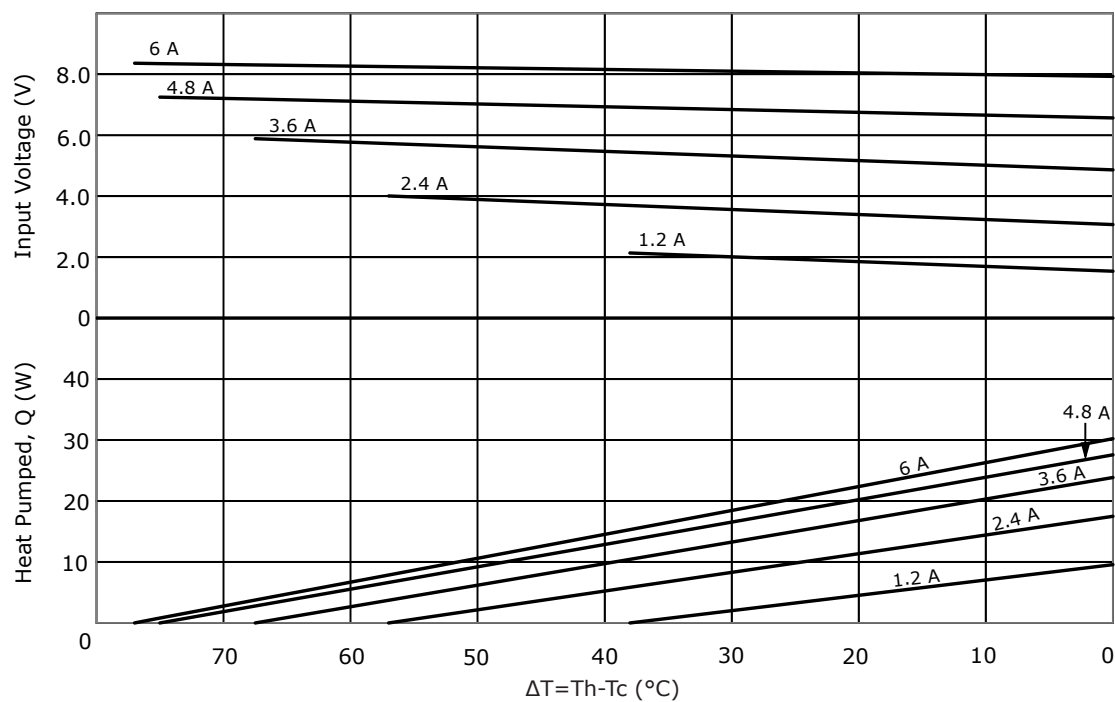
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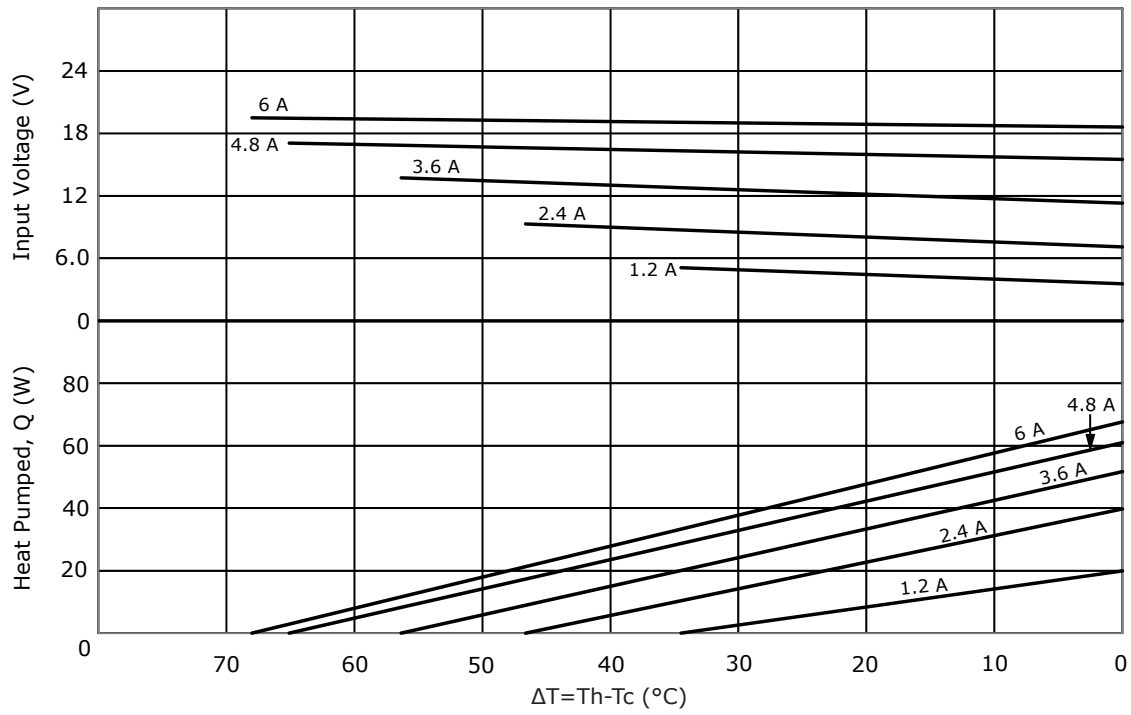
CP604020395H PERFORMANCE (Th=27°C)



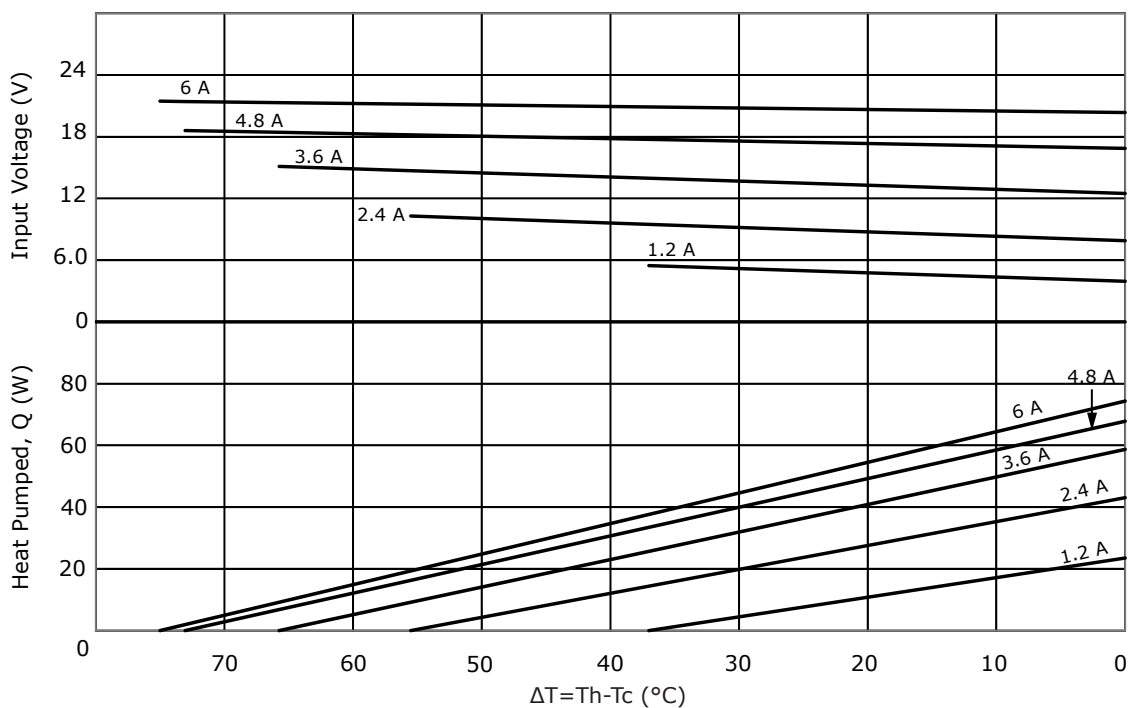
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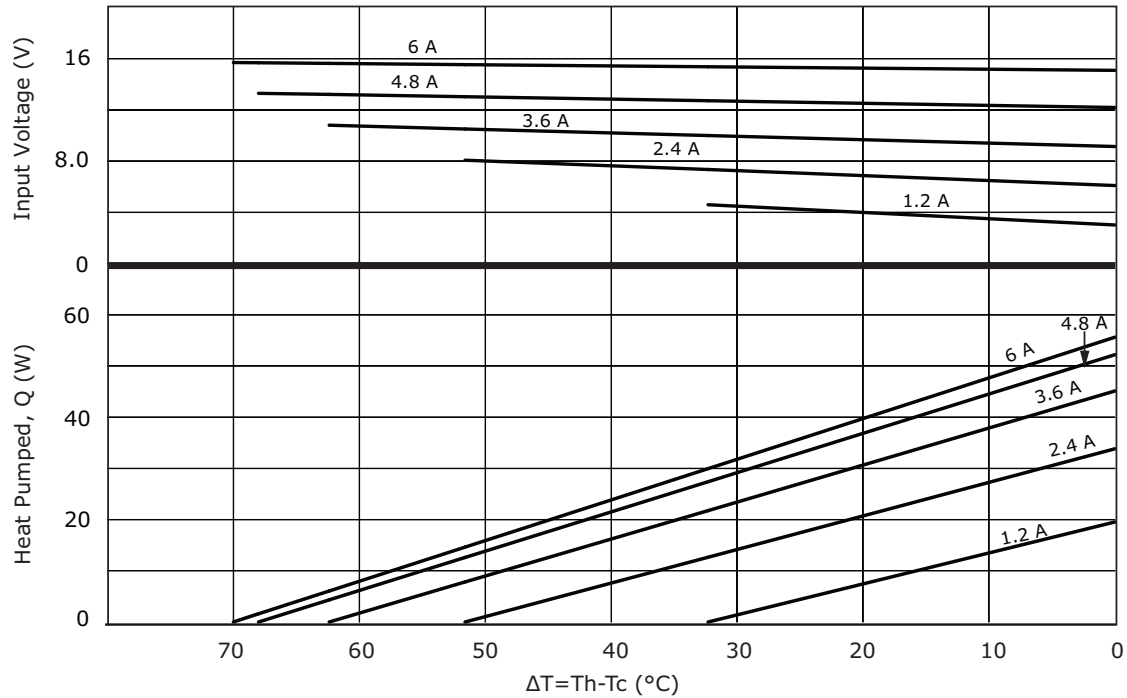
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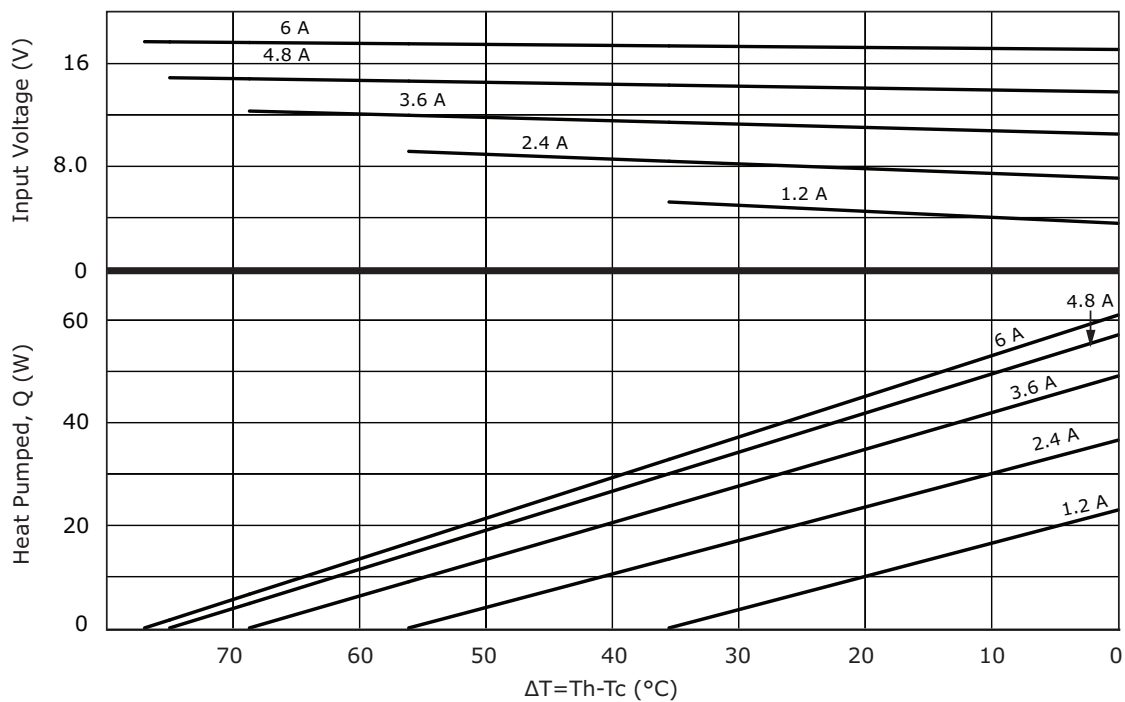
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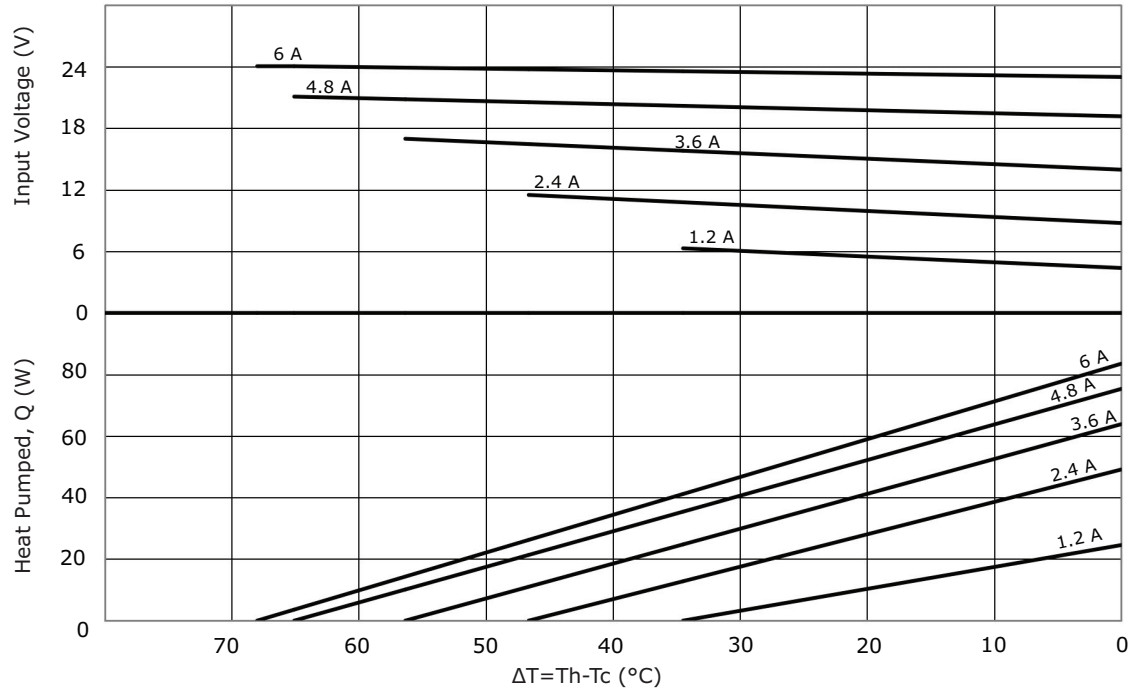
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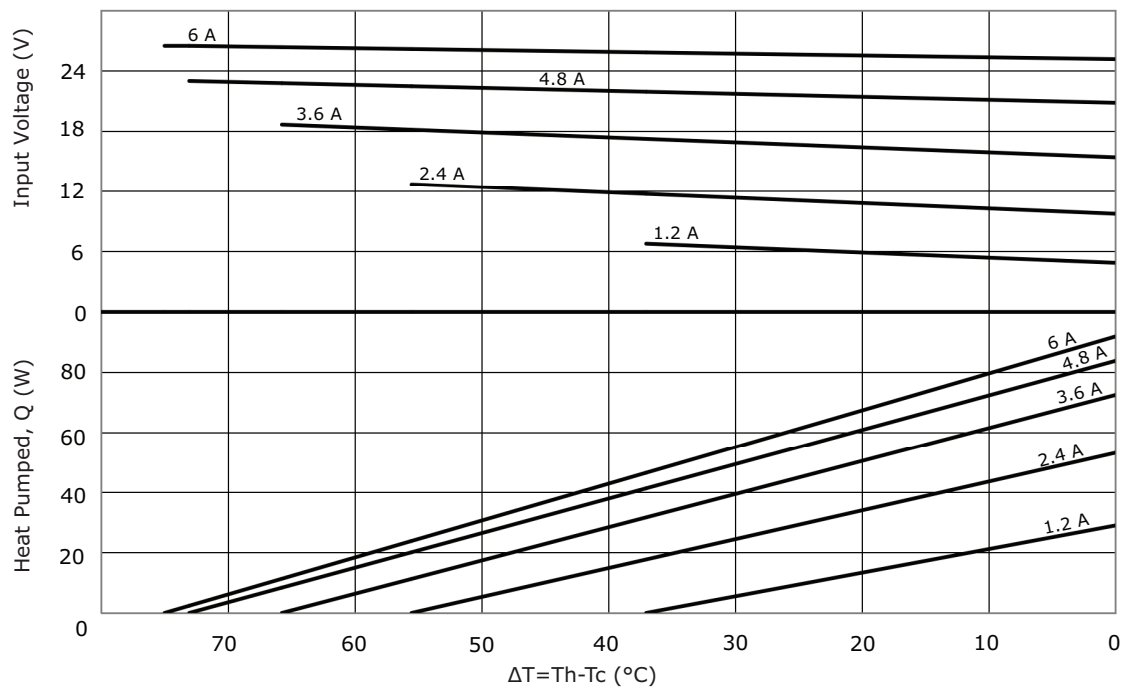
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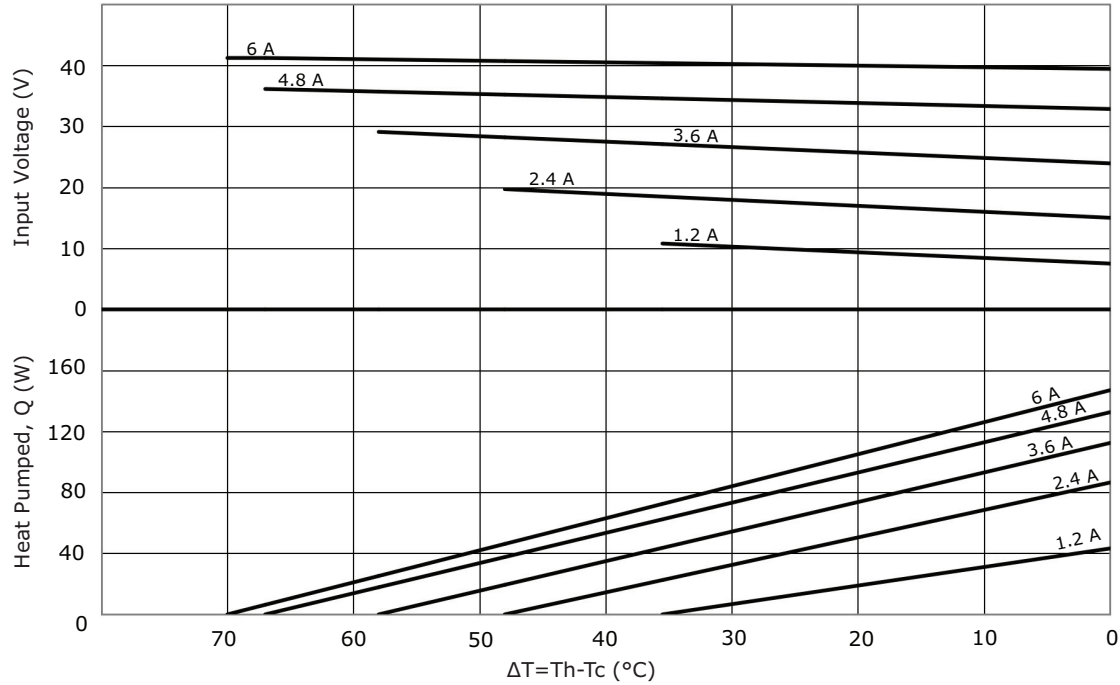
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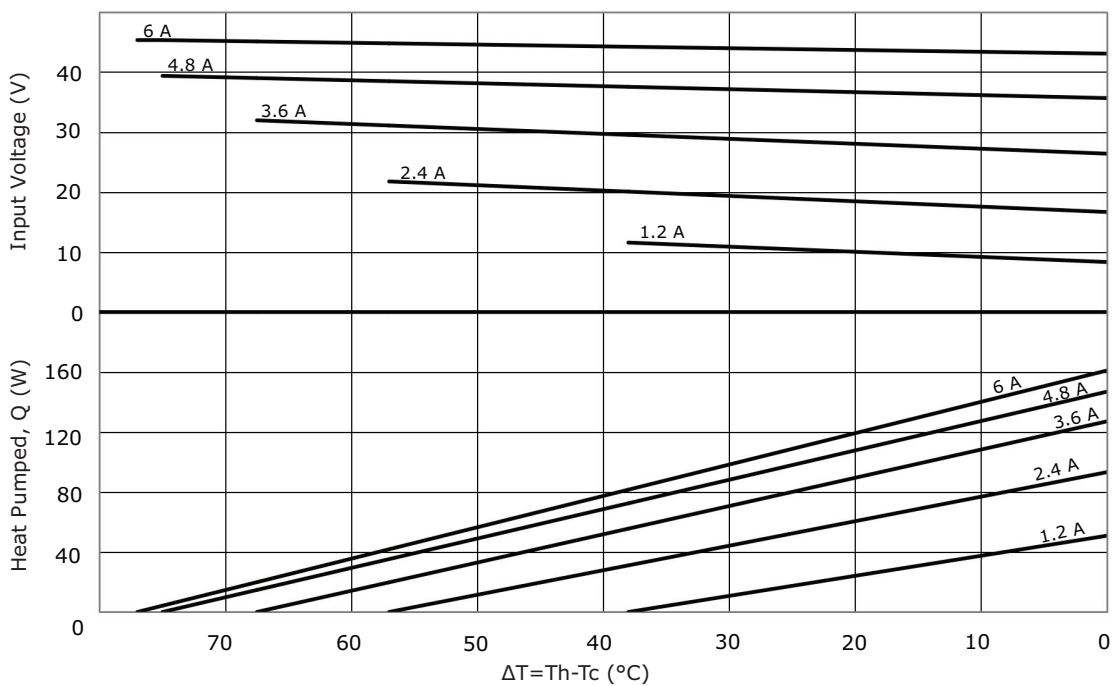
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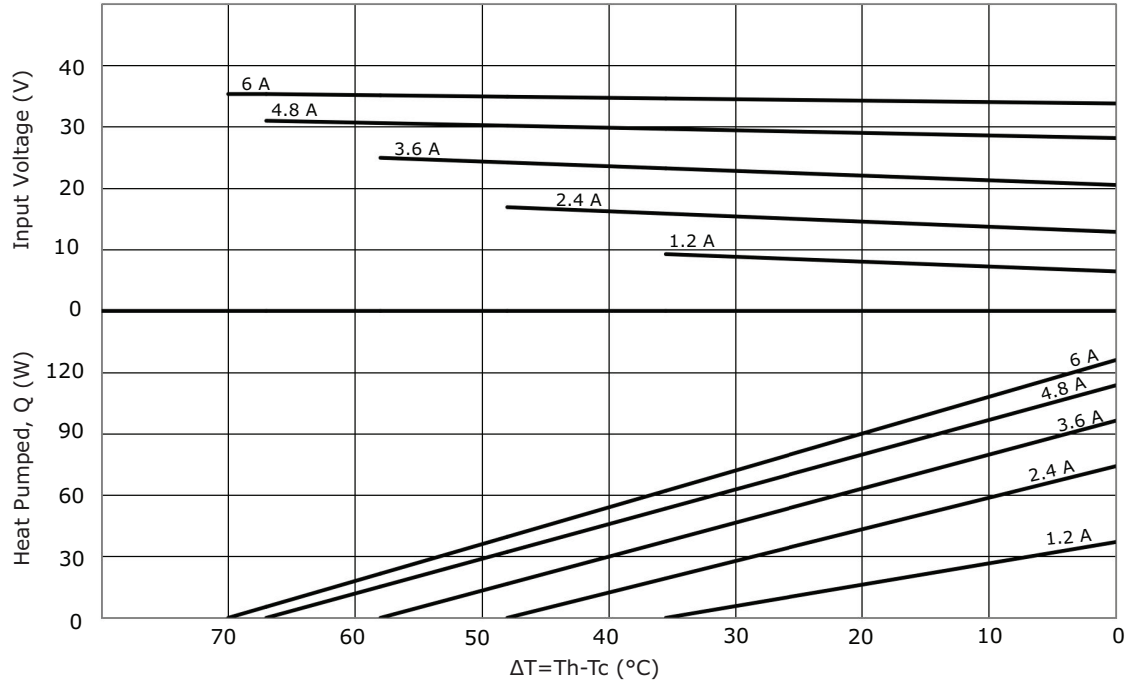
CP60546241 PERFORMANCE (Th=27°C)



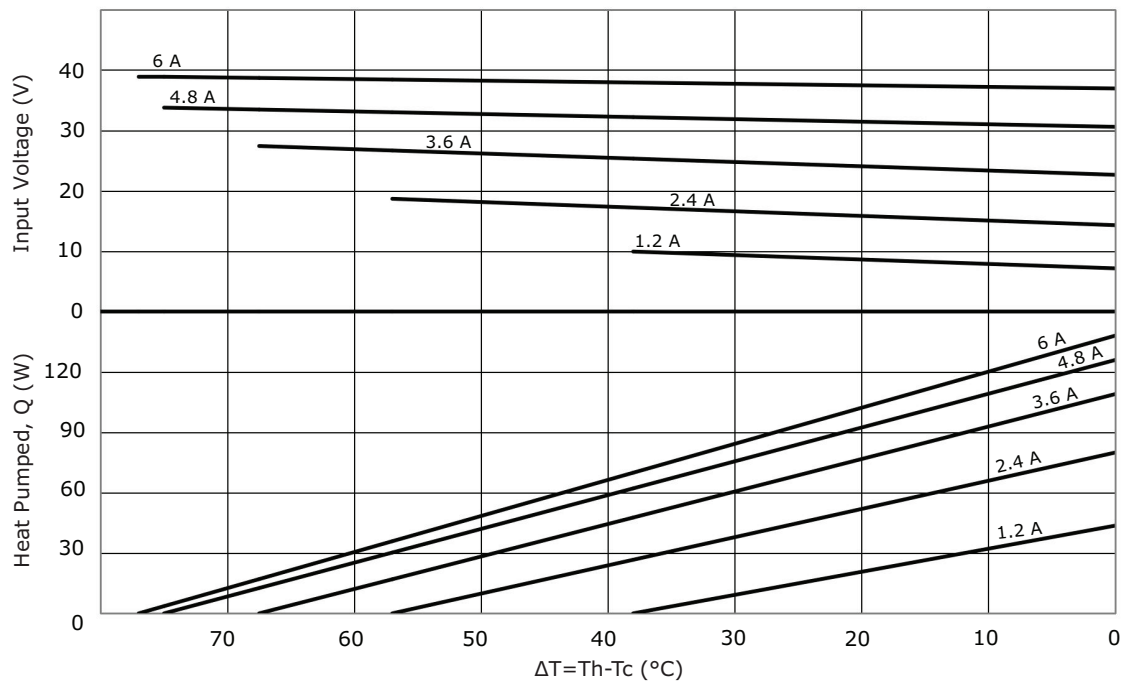
CP60546241 PERFORMANCE (Th=50°C)



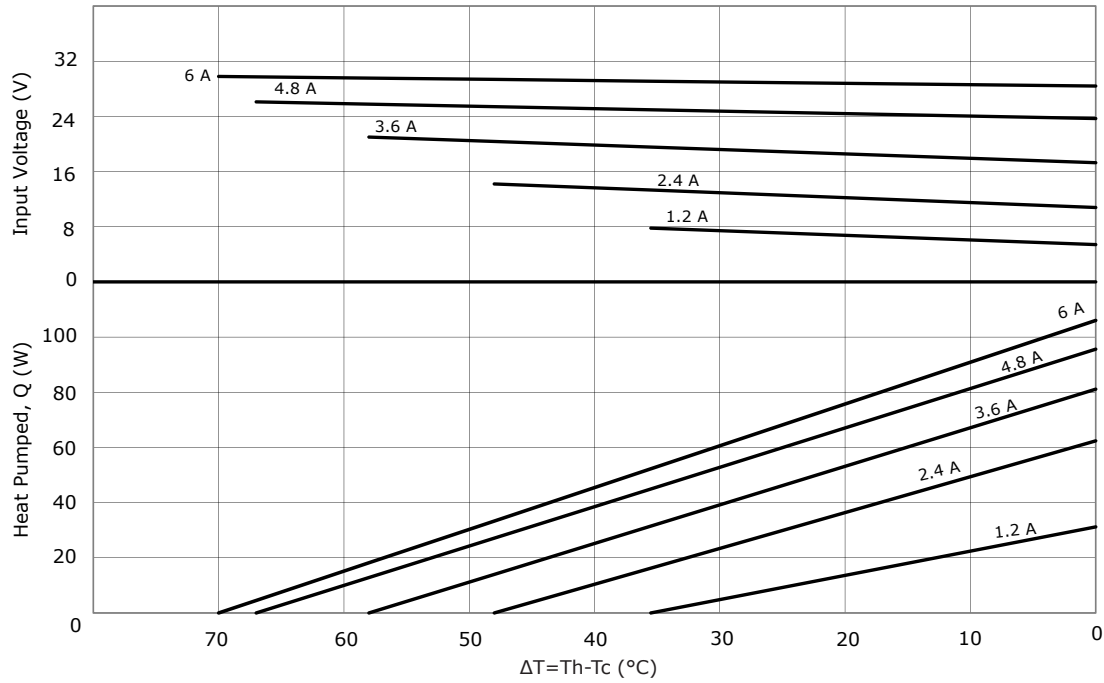
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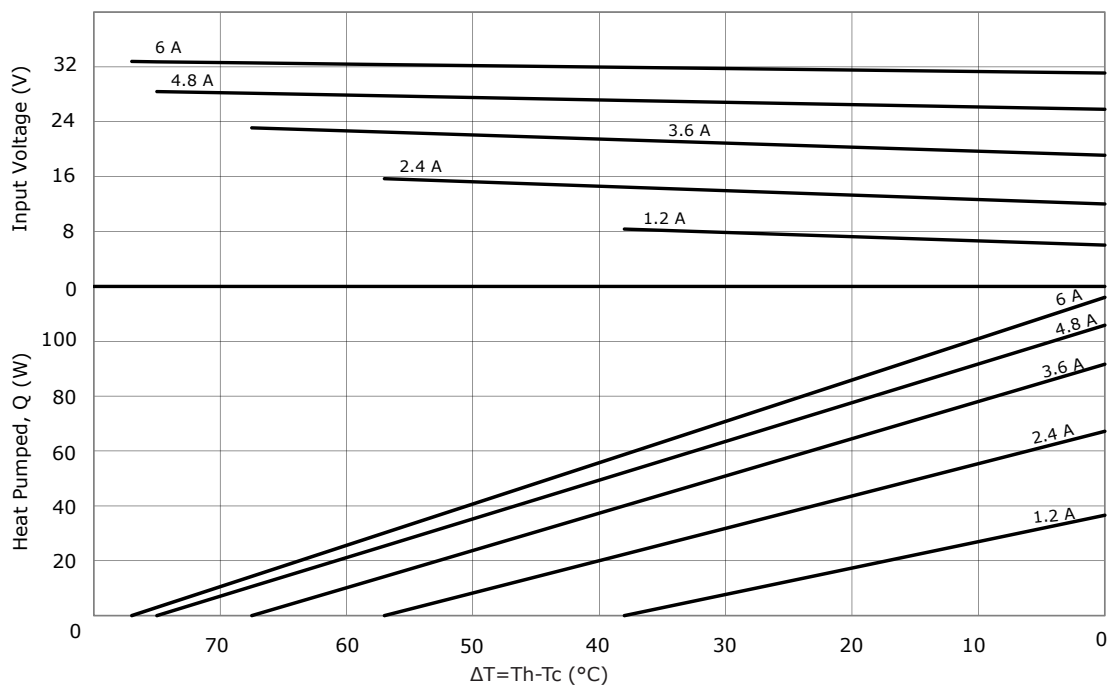
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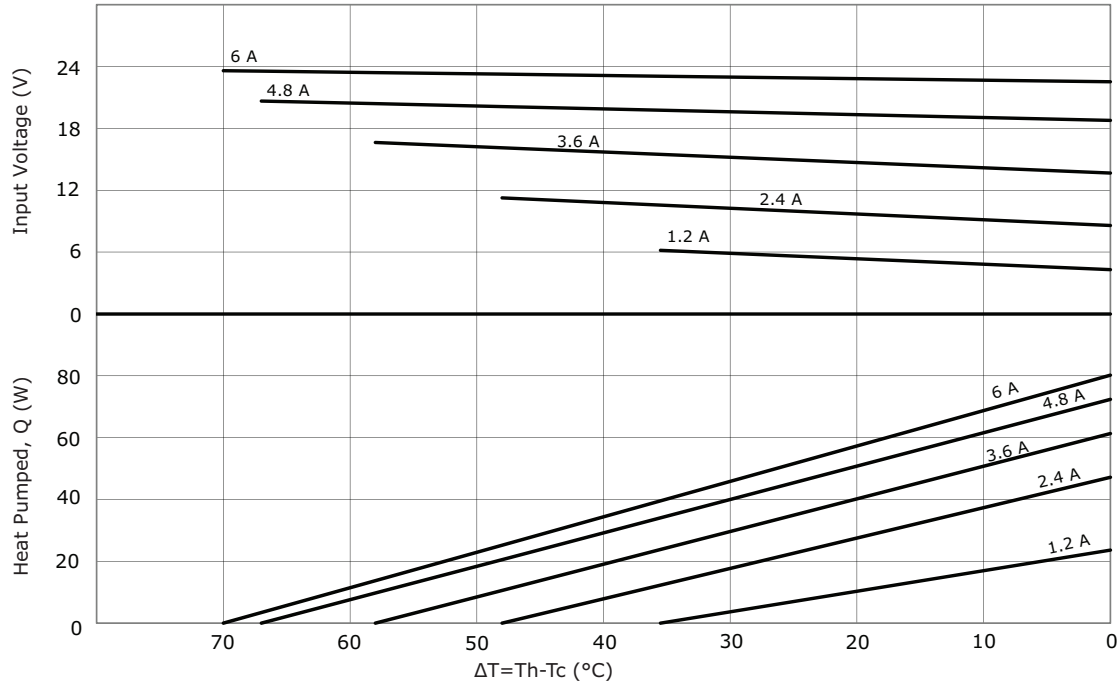
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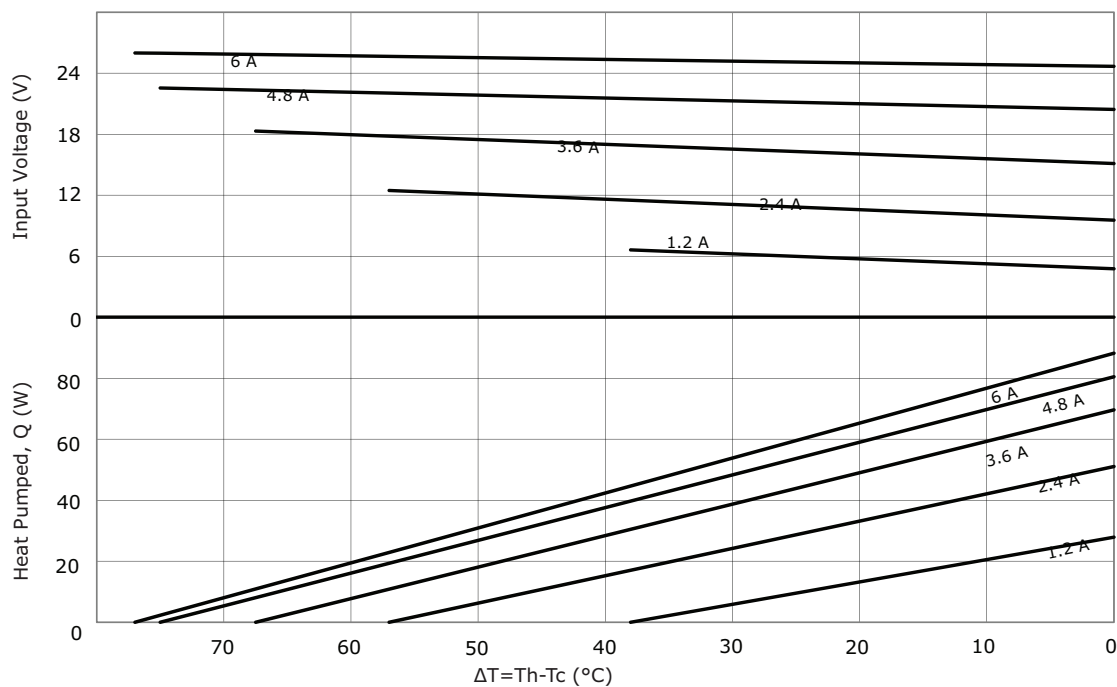
CP6055542 PERFORMANCE (Th=50°C)



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

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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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