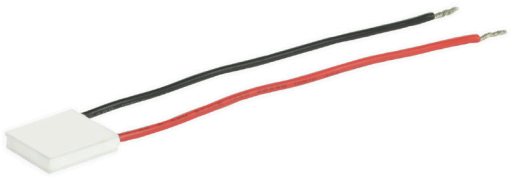
CUI DEVICES

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	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
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

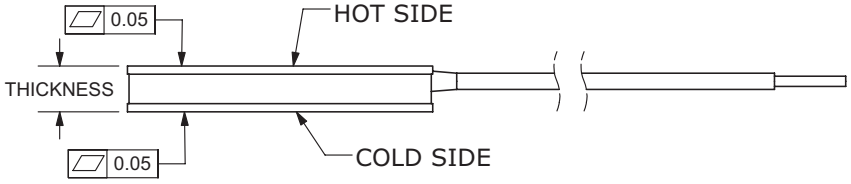
Notes:
1. Maximum voltage at ΔT max and T_h=27°C
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C
5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum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

SPECIFICATIONS

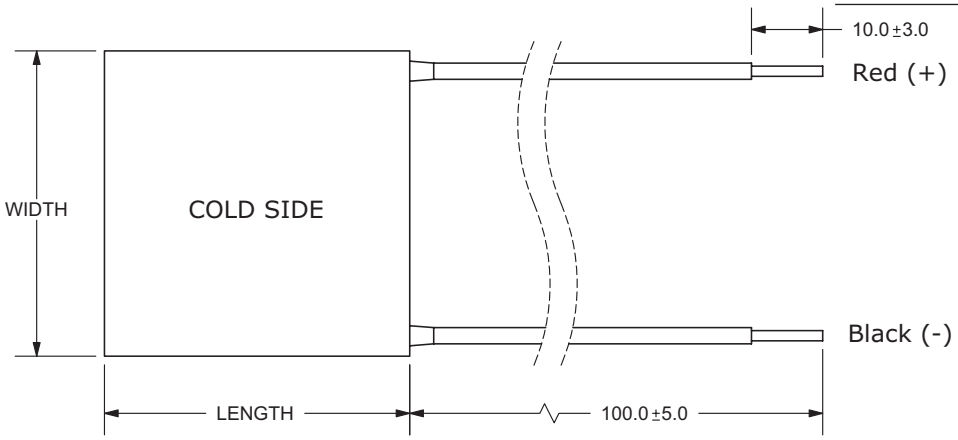
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				

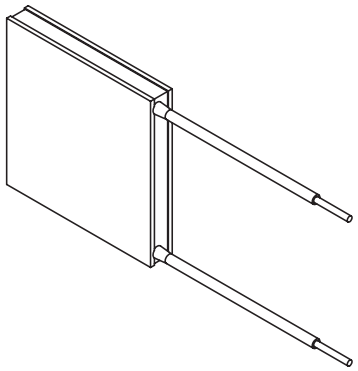
MECHANICAL DRAWING

units: mm



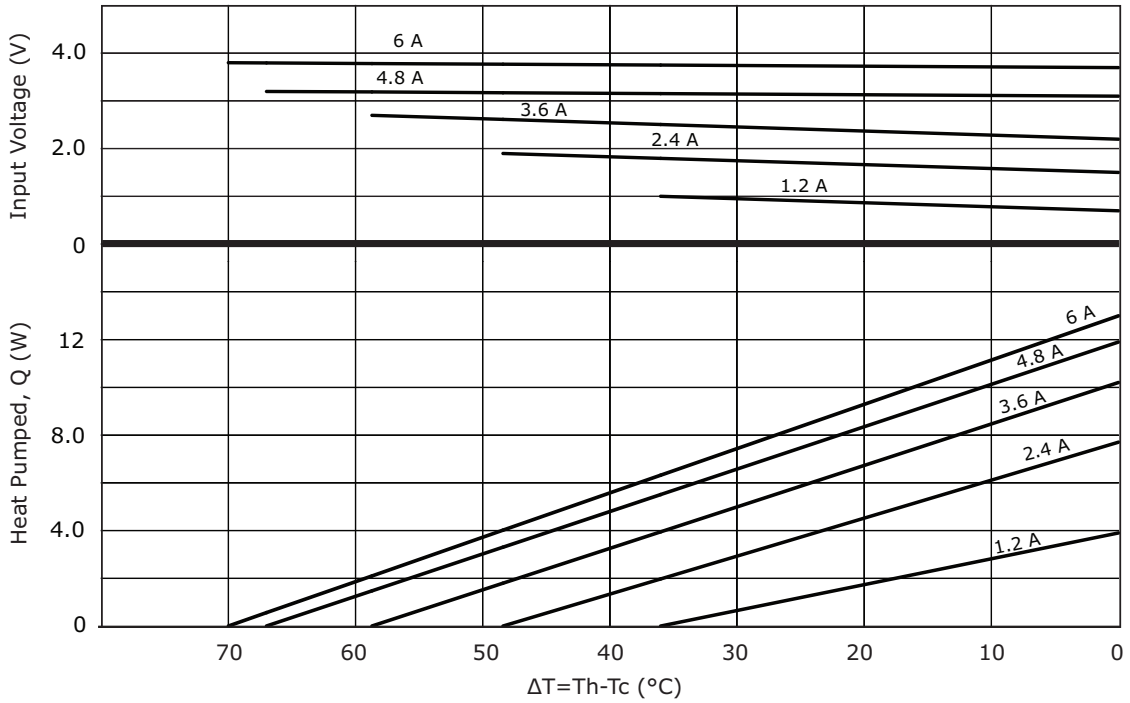
	MATERIAL	PLATING
ceramic plate	96% AL_2O_3	
wire leads (CP60131H, CP60231H, CP60301233H, CP60301531H, CP603315H)	22 AWG	tin
wire leads (all other models)	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold 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	CP604020395H	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
CP603315H	30 ±0.3	30 ±0.3	3.15 ±0.025	CP60555542	55 ±0.3	55 ±0.3	4.2 ±0.1
CP6030395	30 ±0.3	30 ±0.3	3.95 ±0.025	CP604060395	40 ±0.3	60 ±0.3	3.95 ±0.025

CP60131H PERFORMANCE (Th=27°C)



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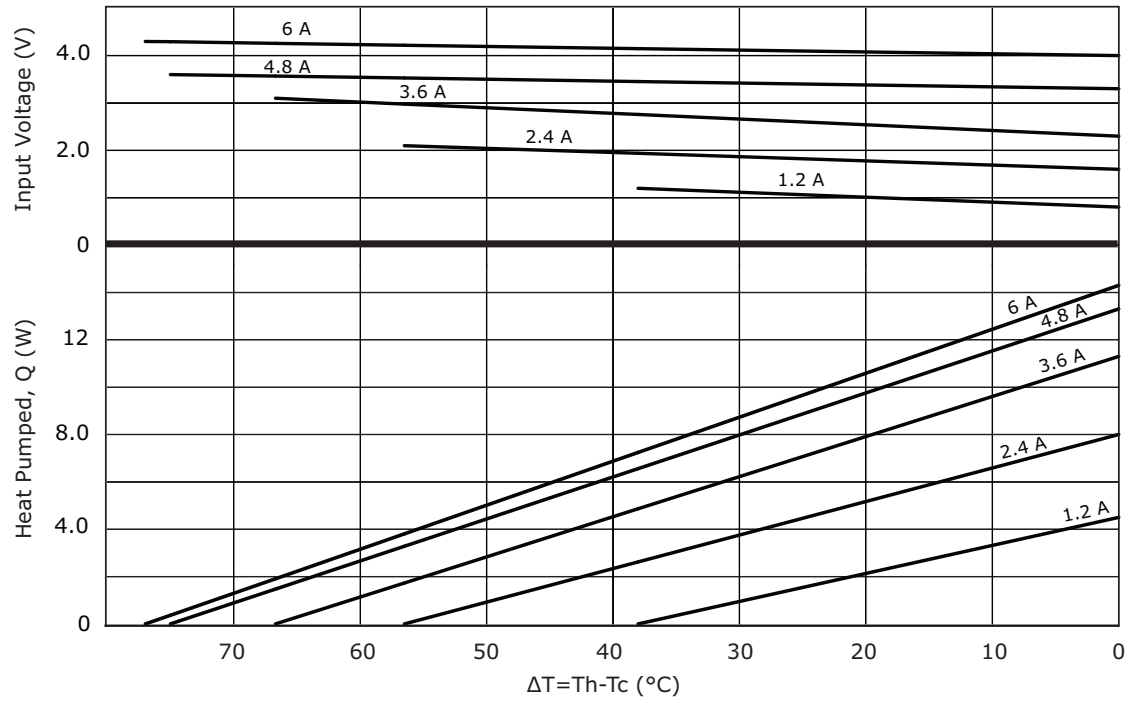

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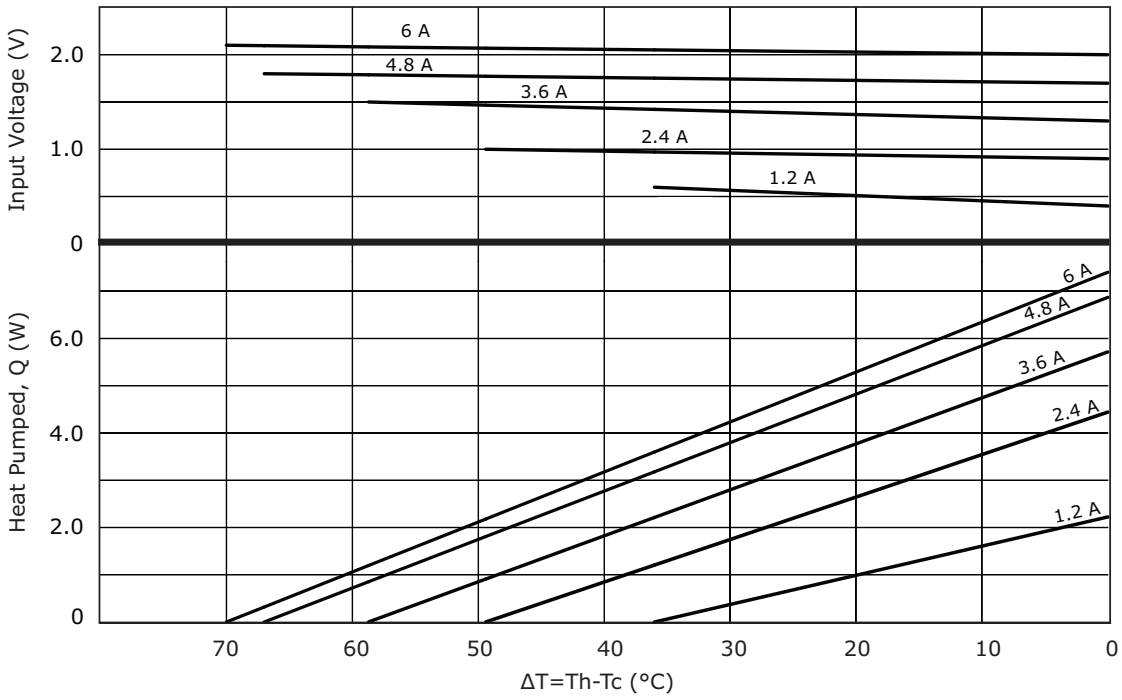

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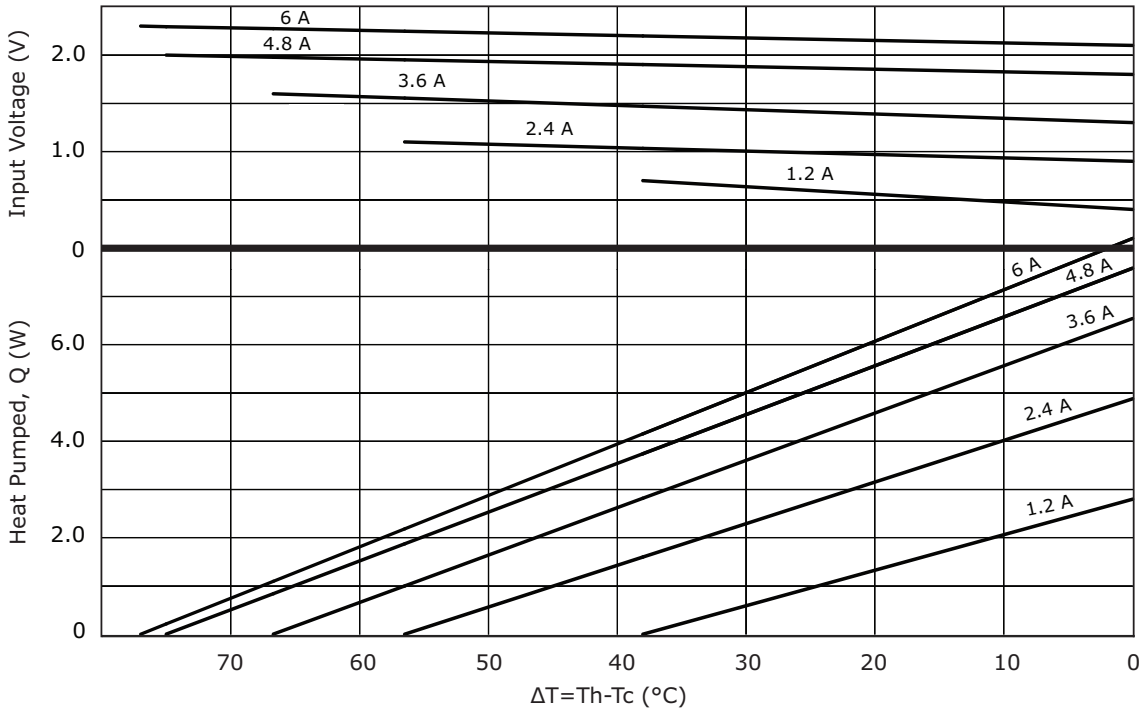

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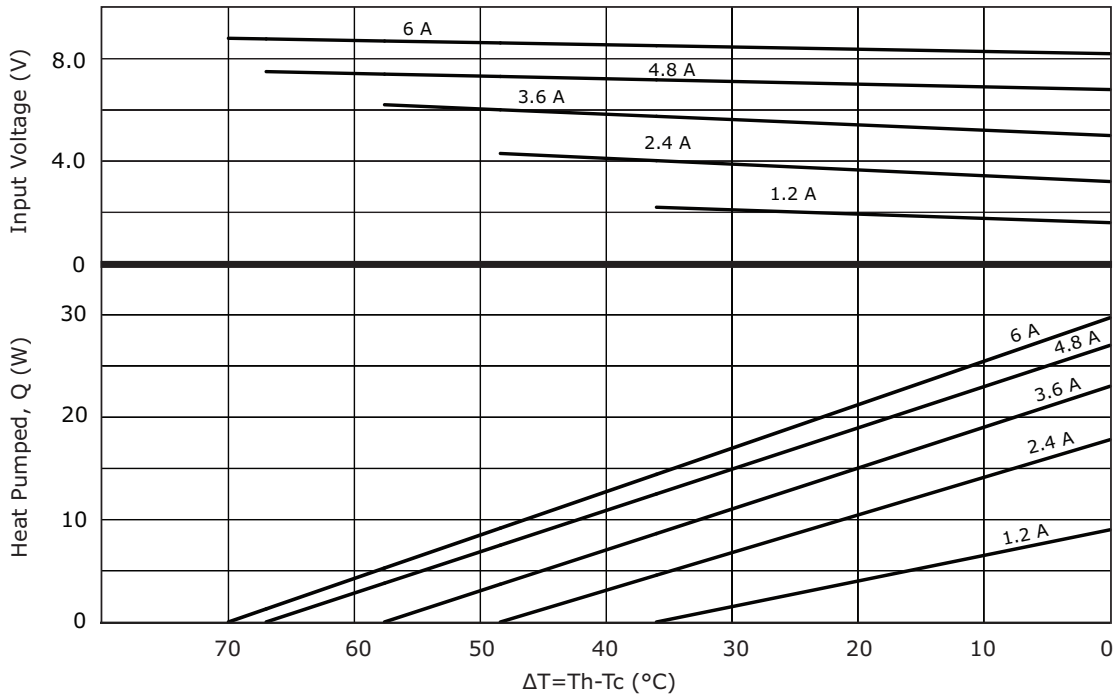

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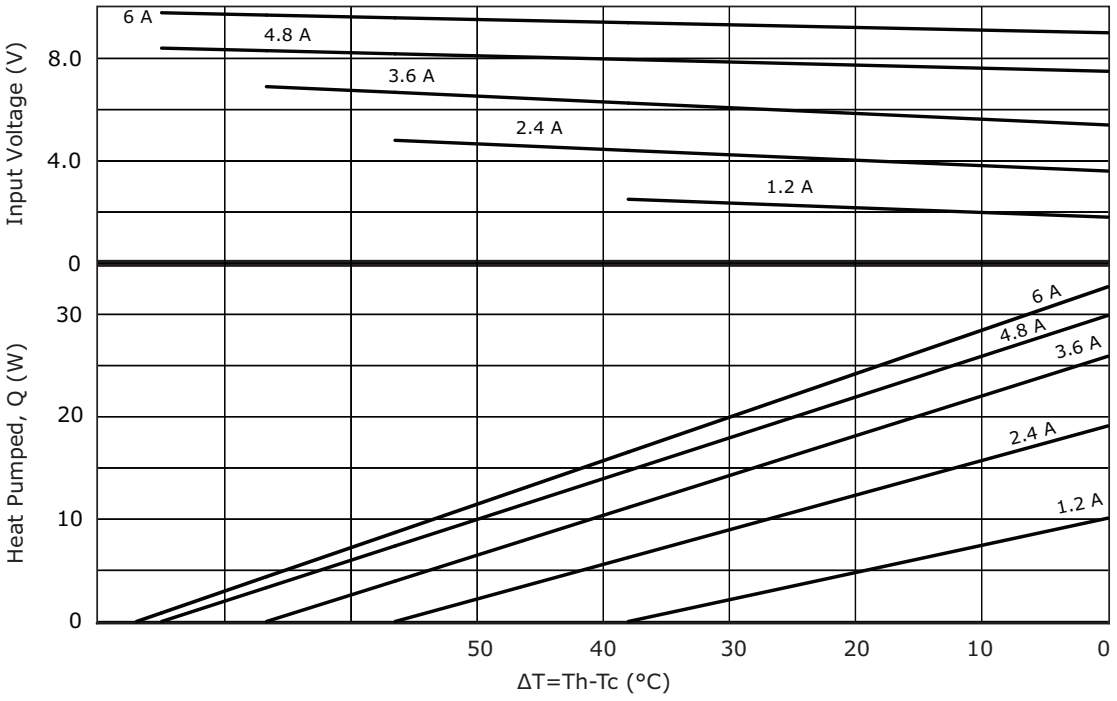

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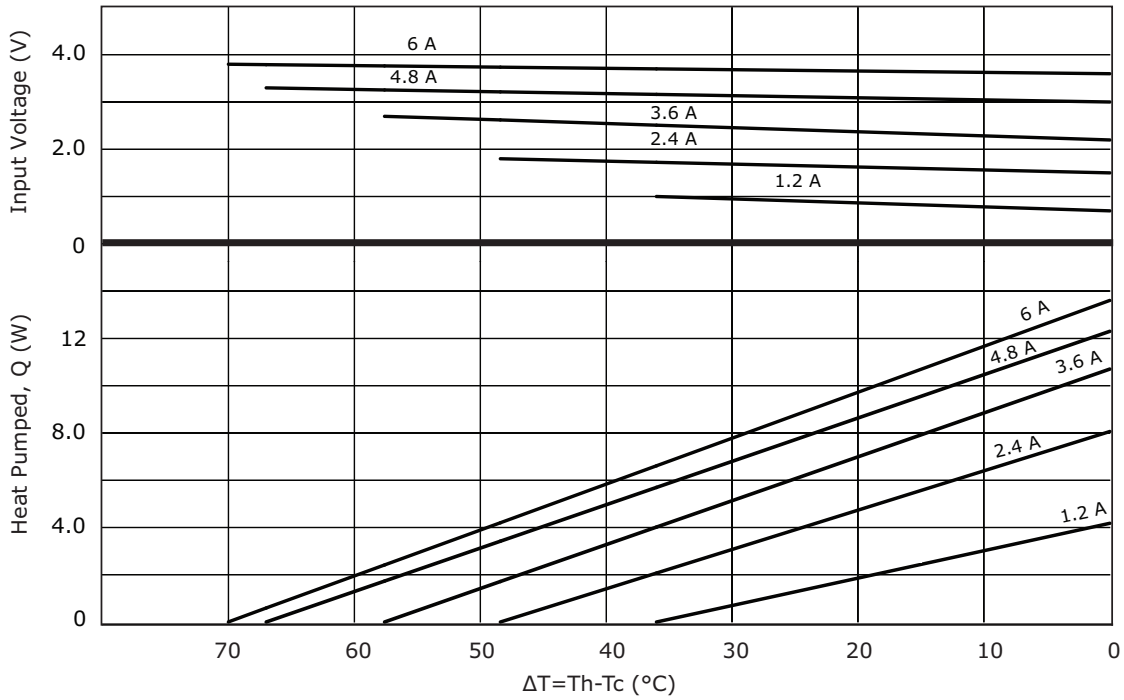

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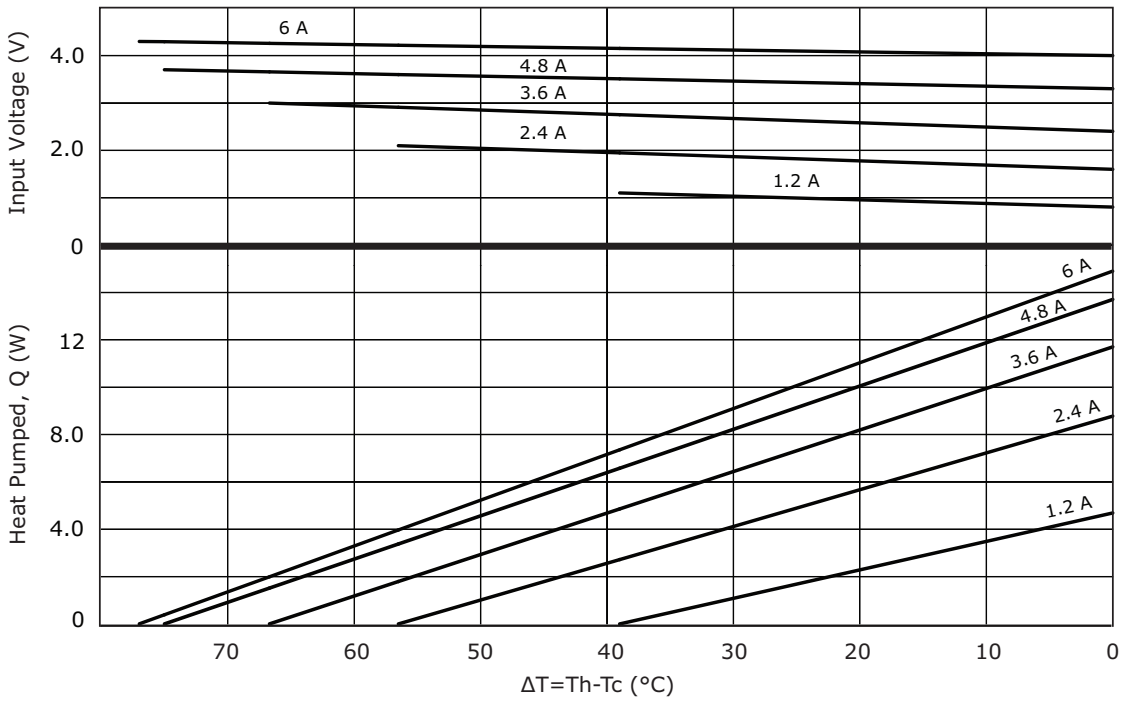

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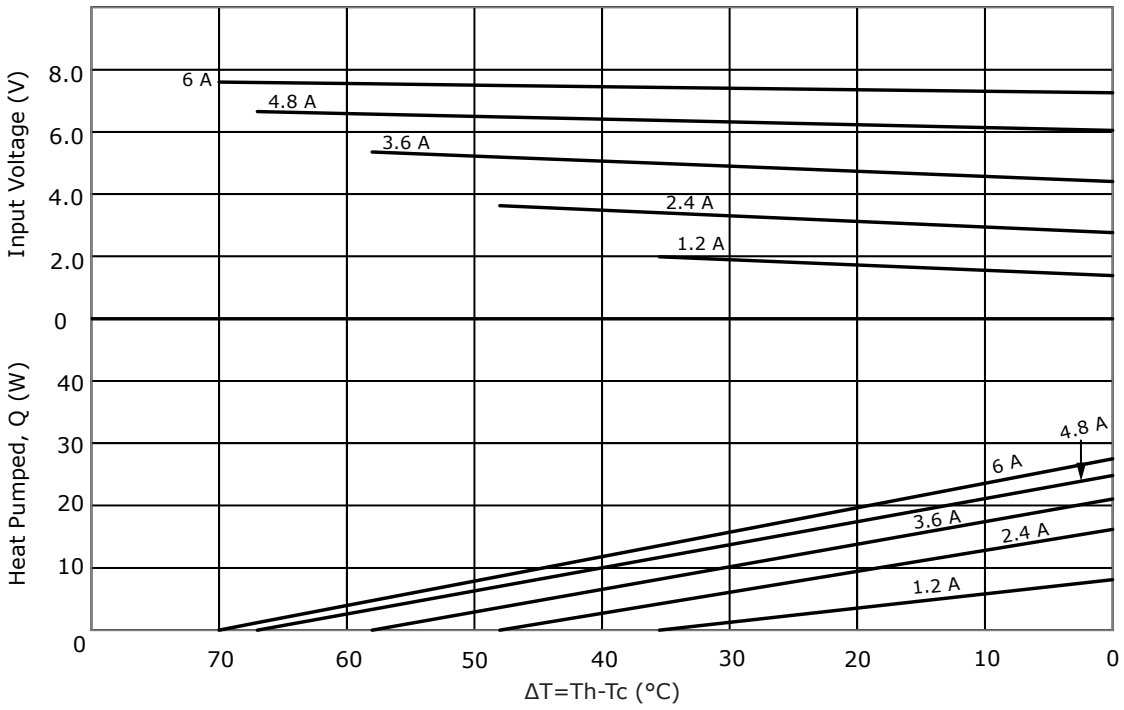

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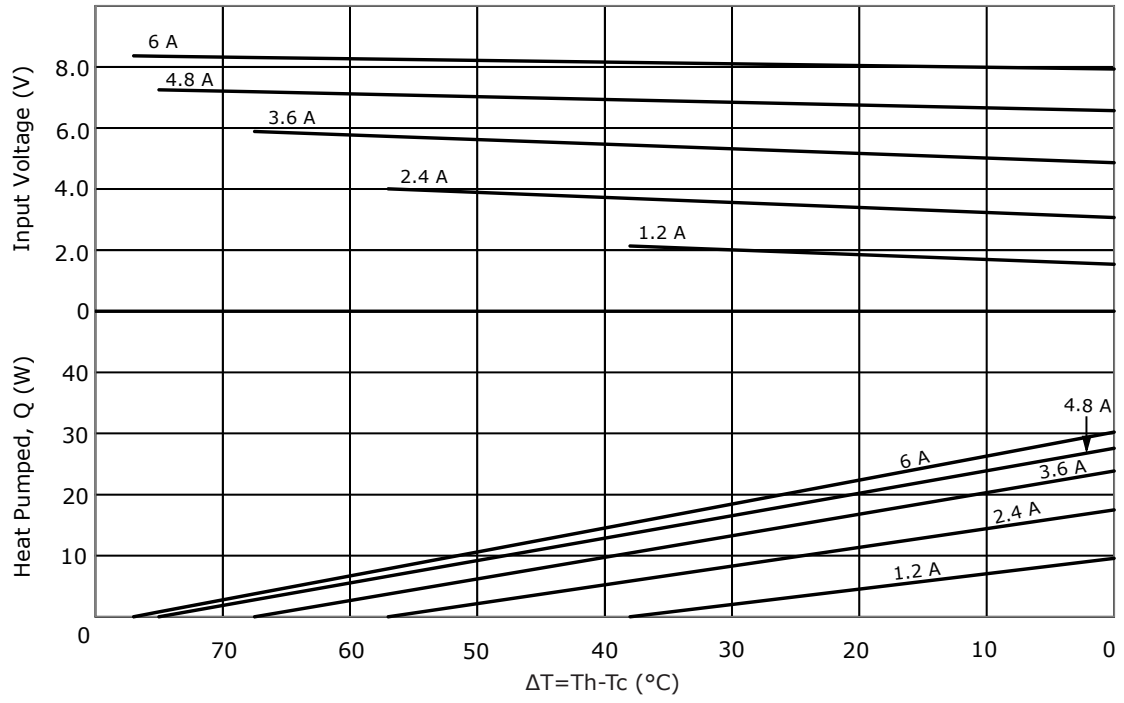

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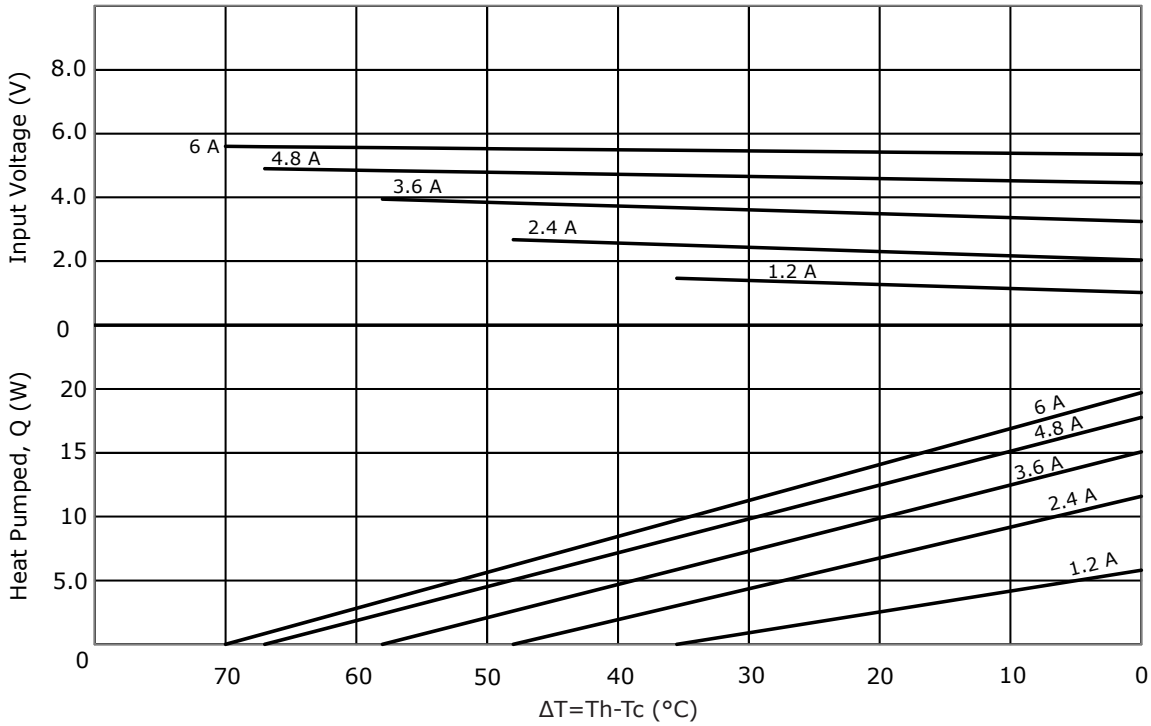

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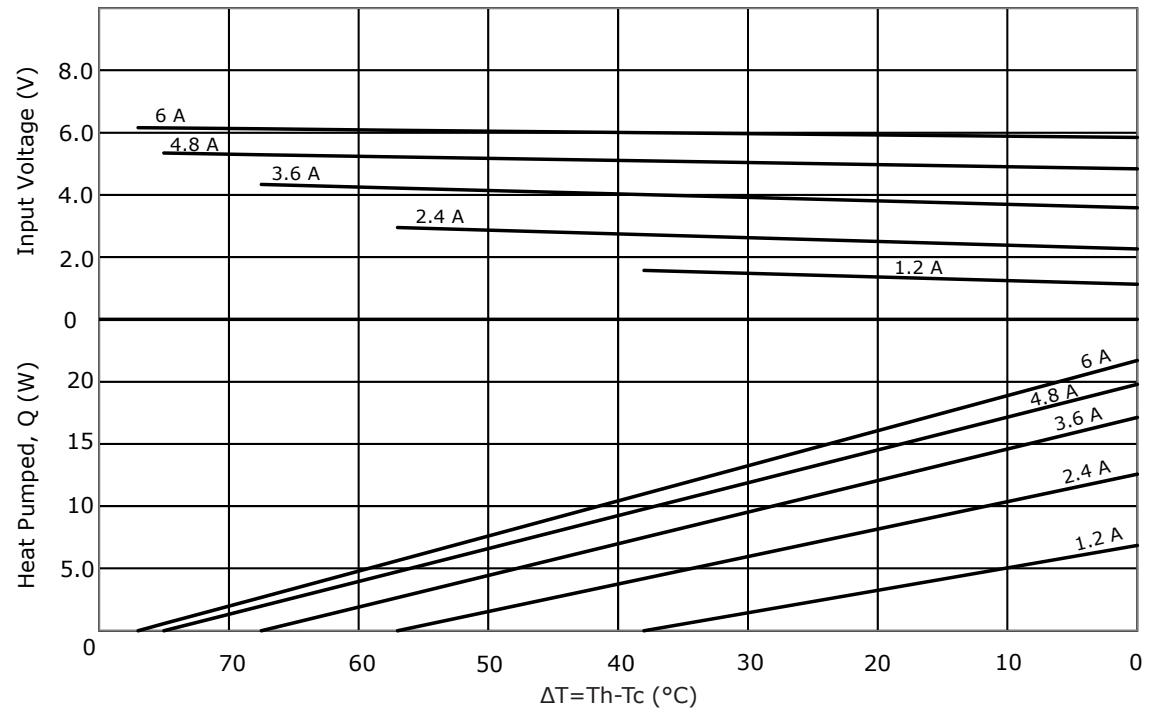

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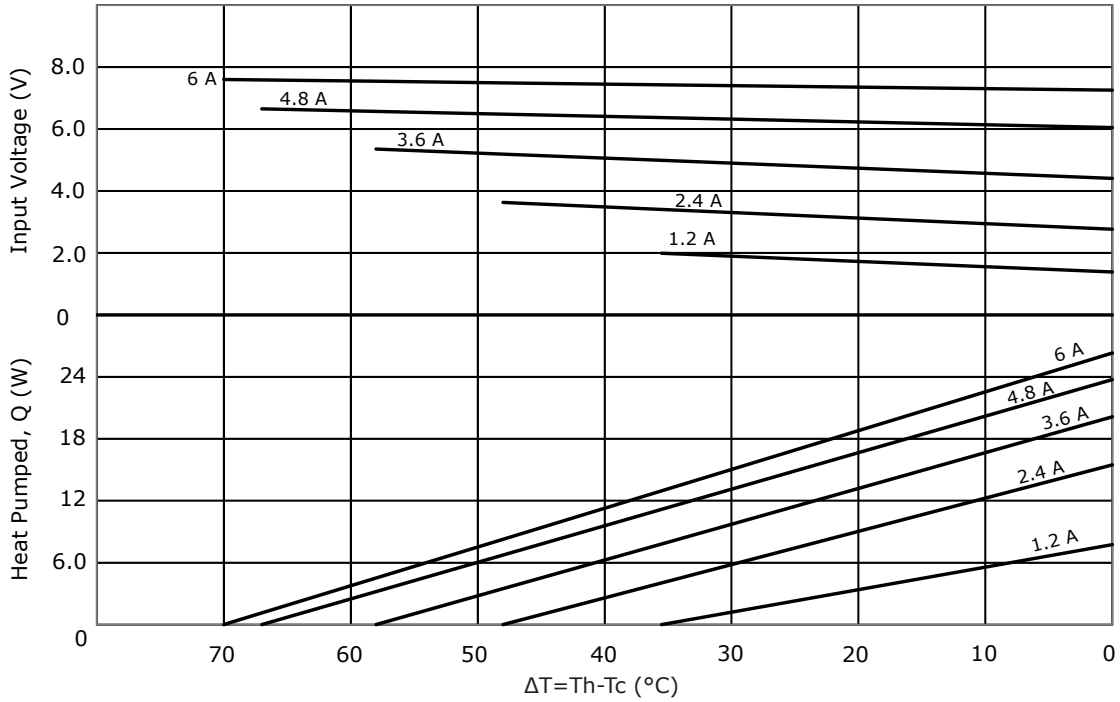

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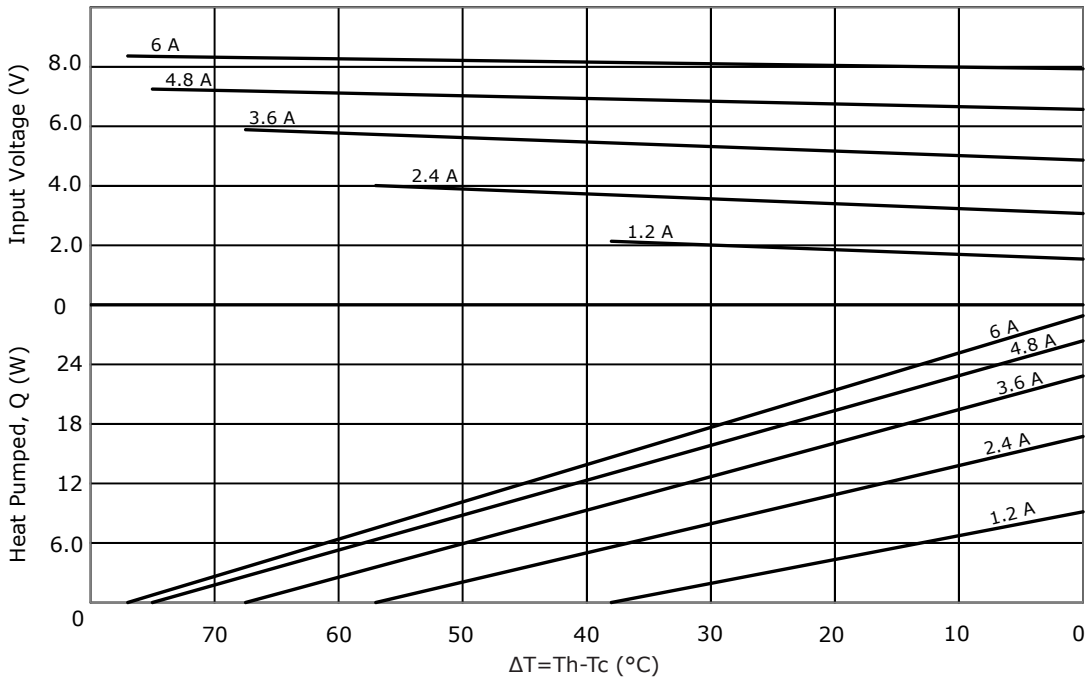

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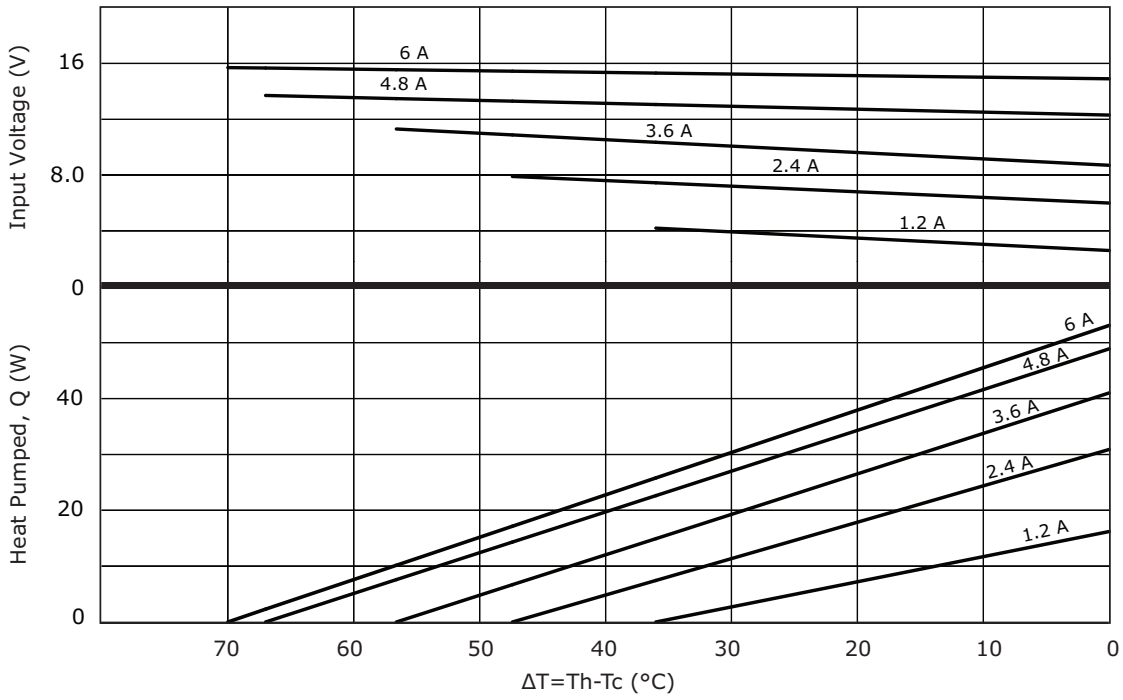

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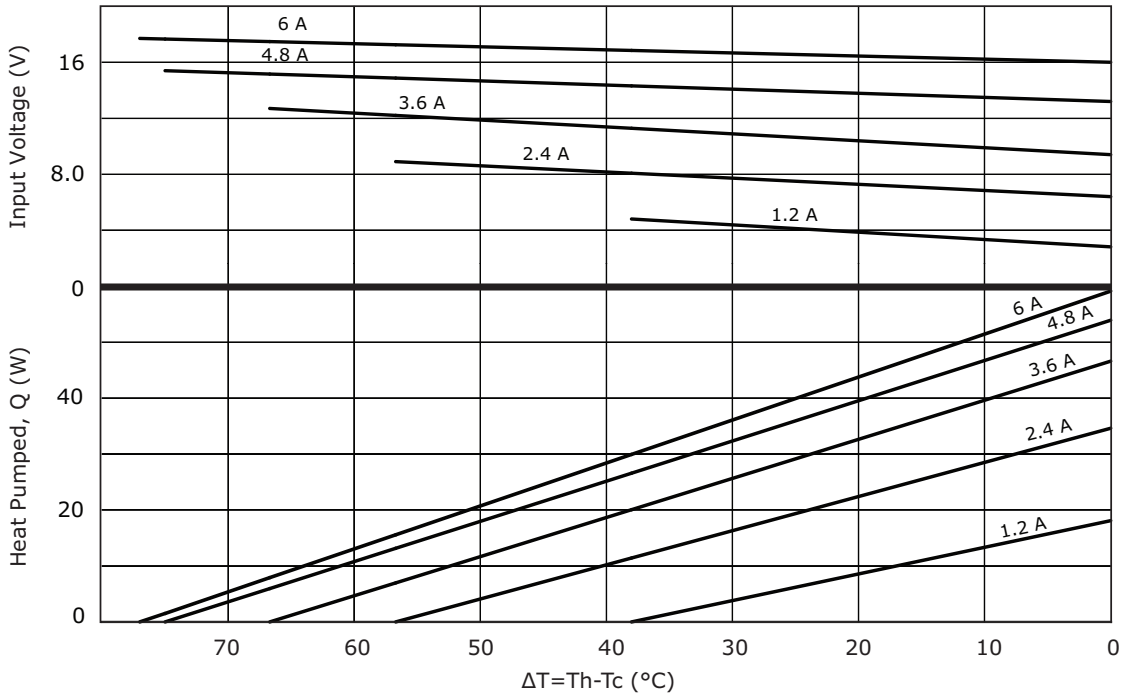

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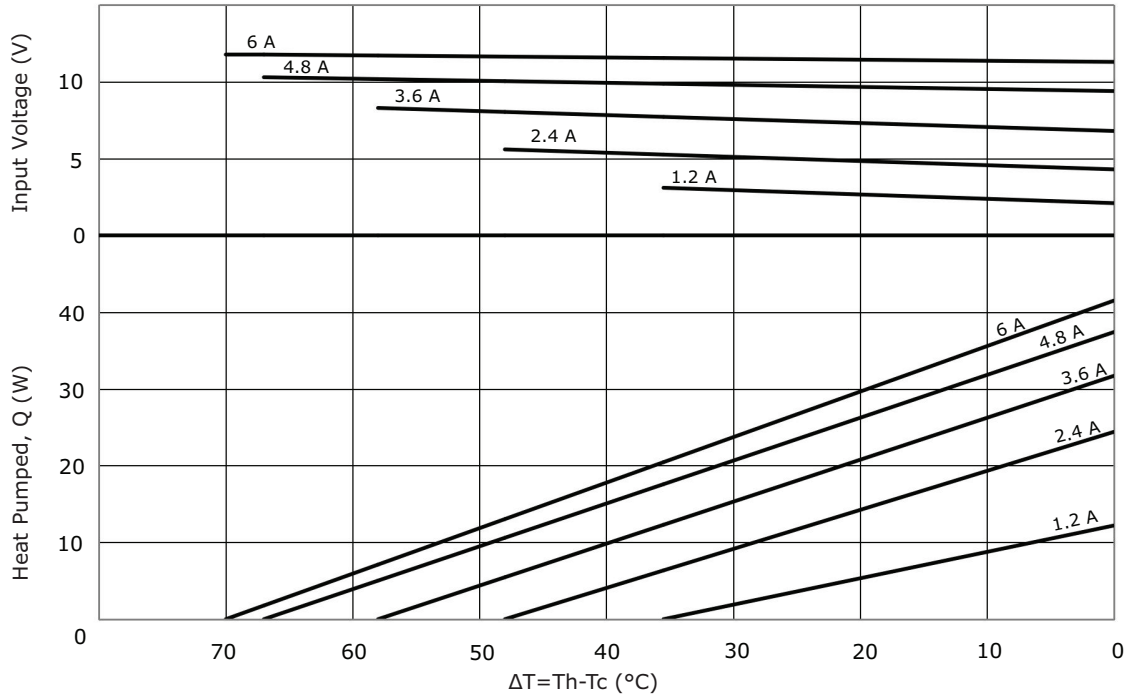

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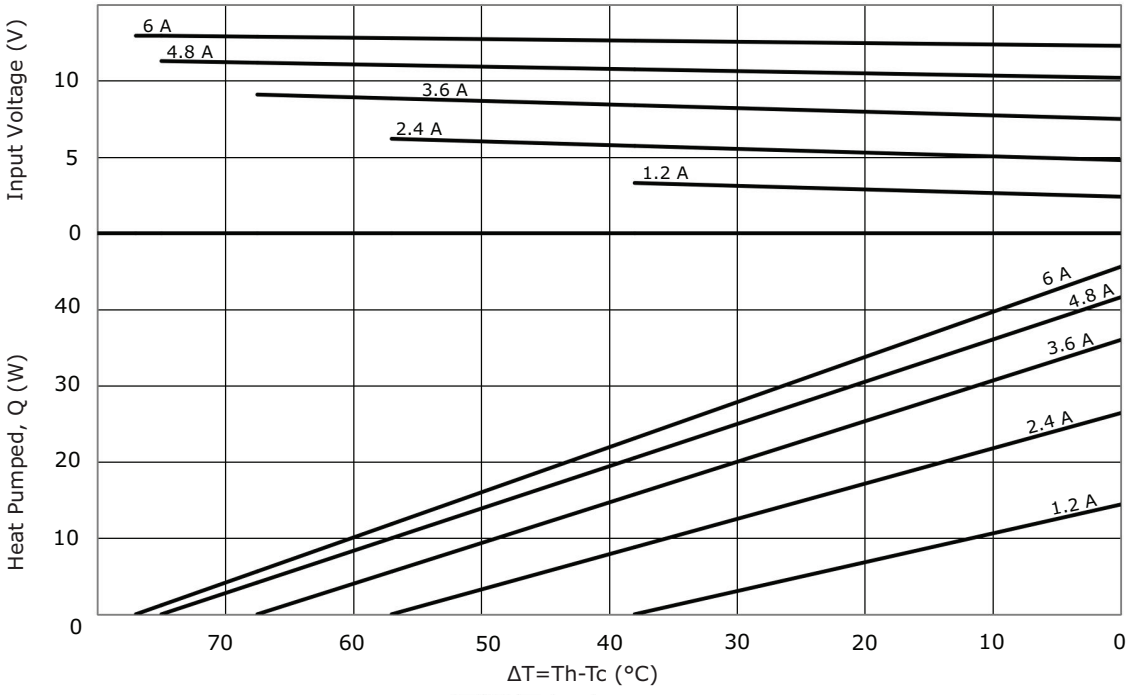

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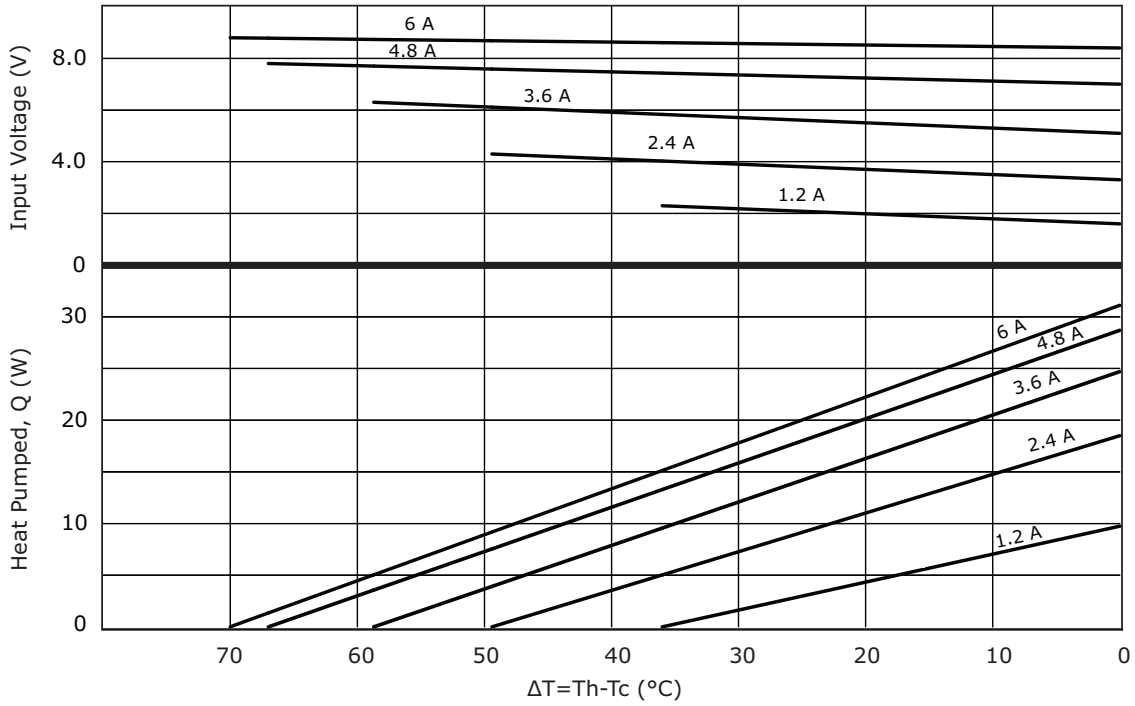

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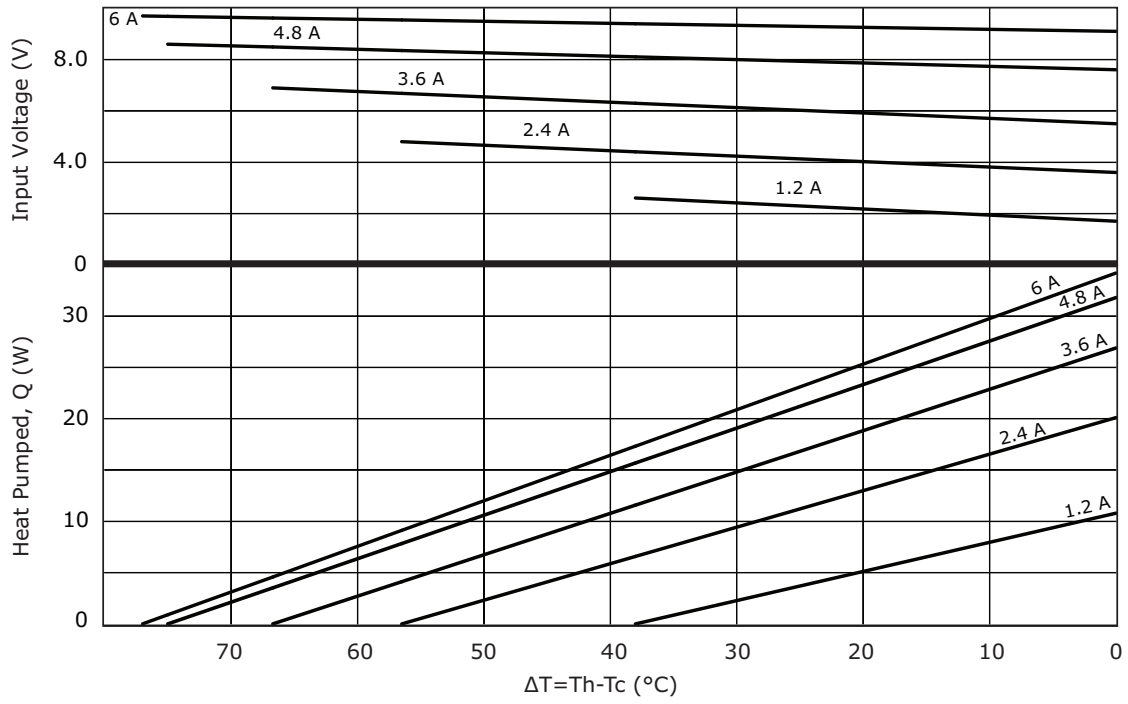

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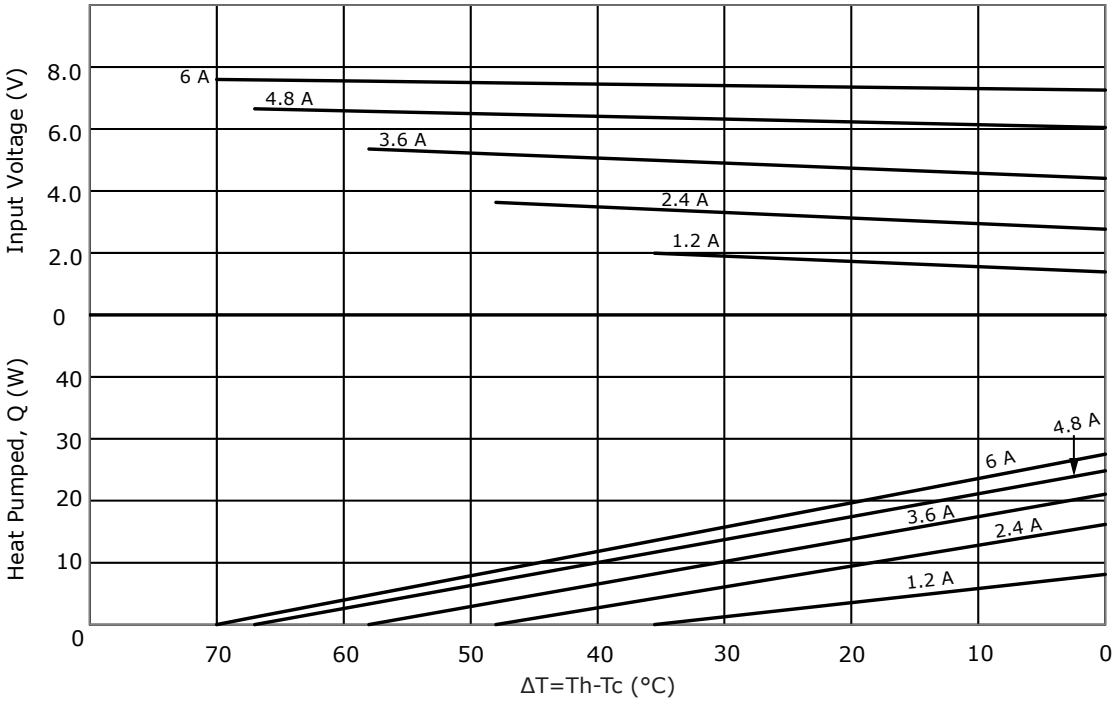

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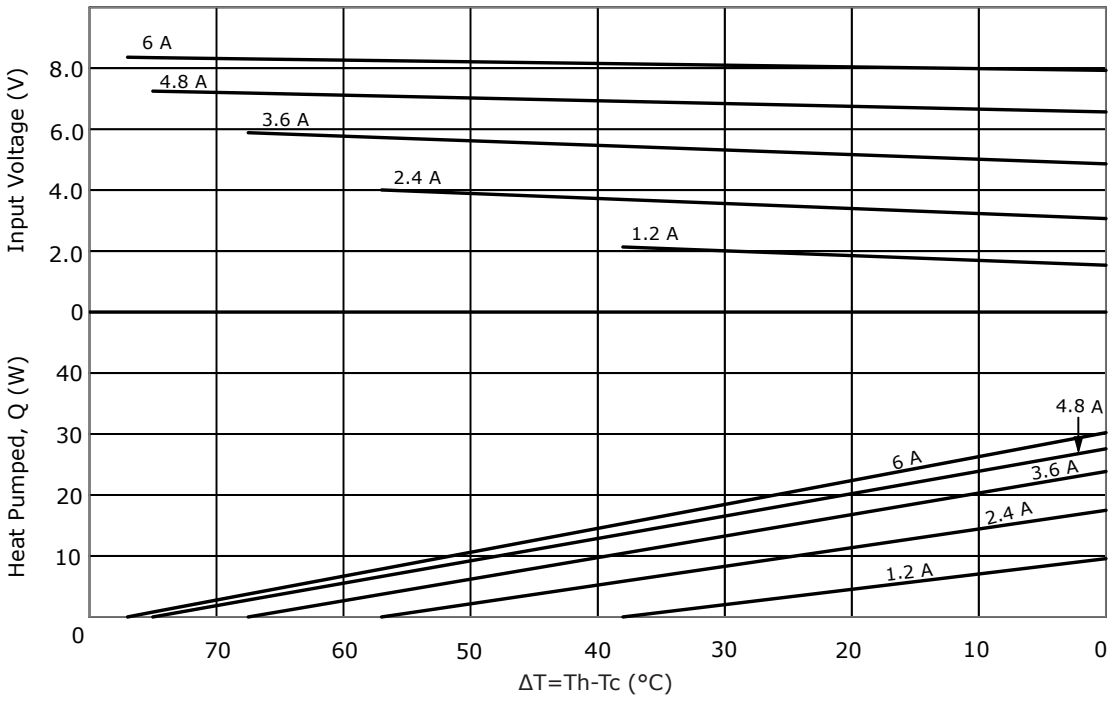

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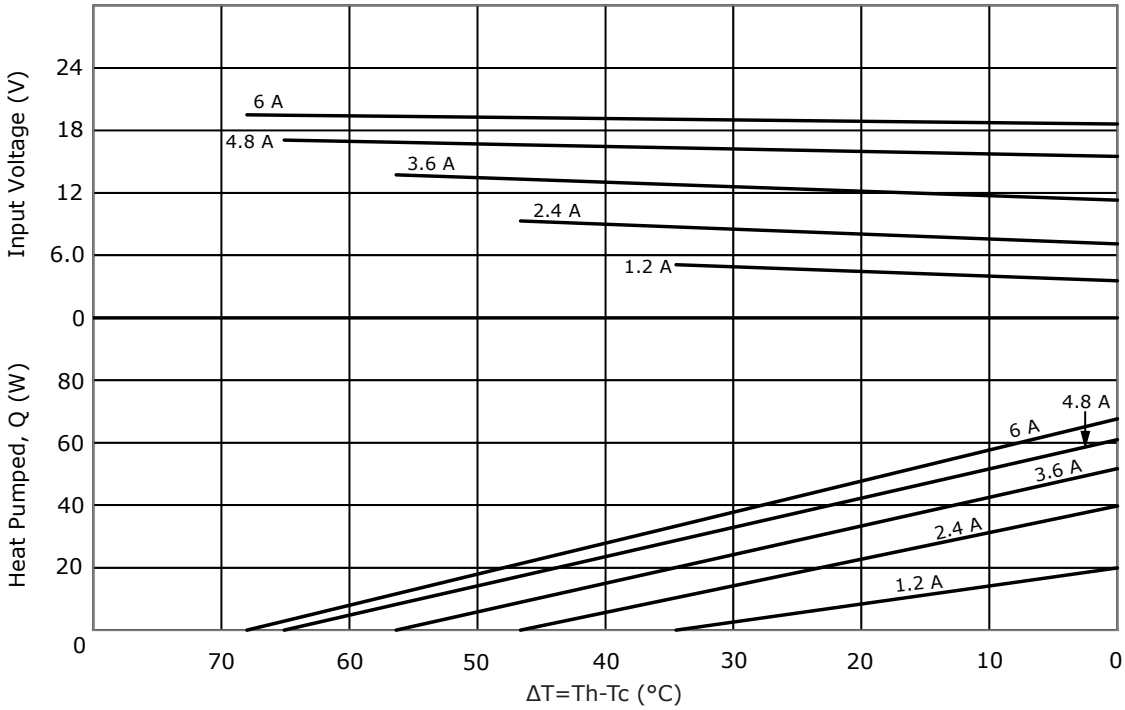

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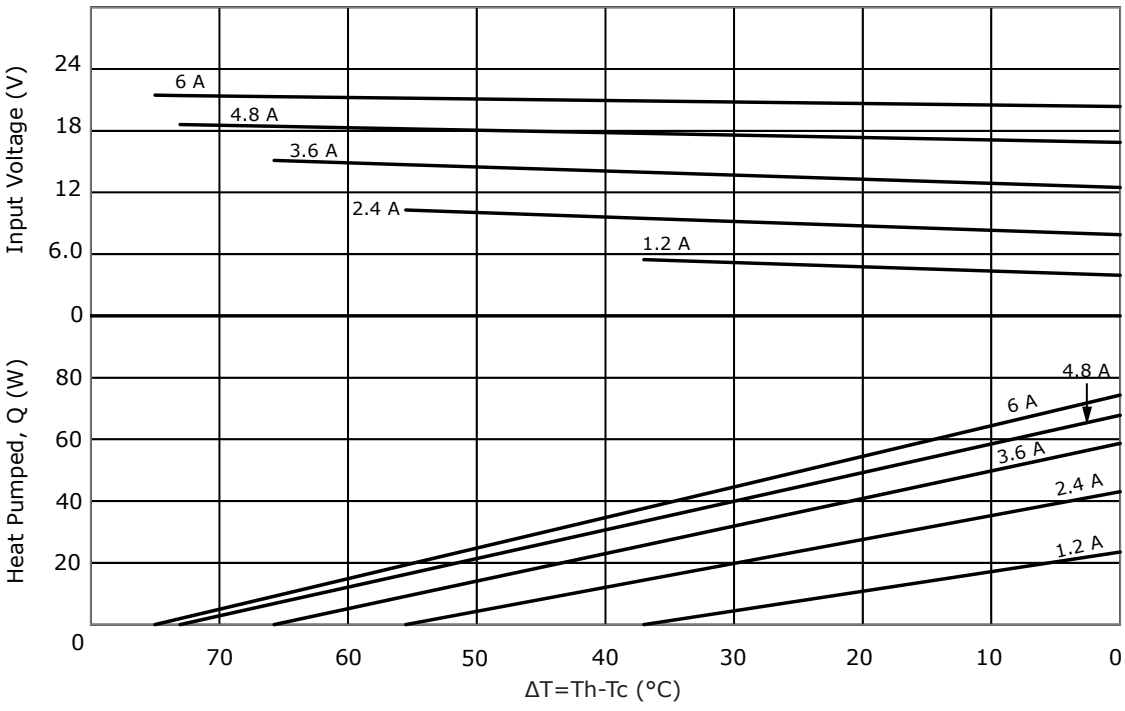

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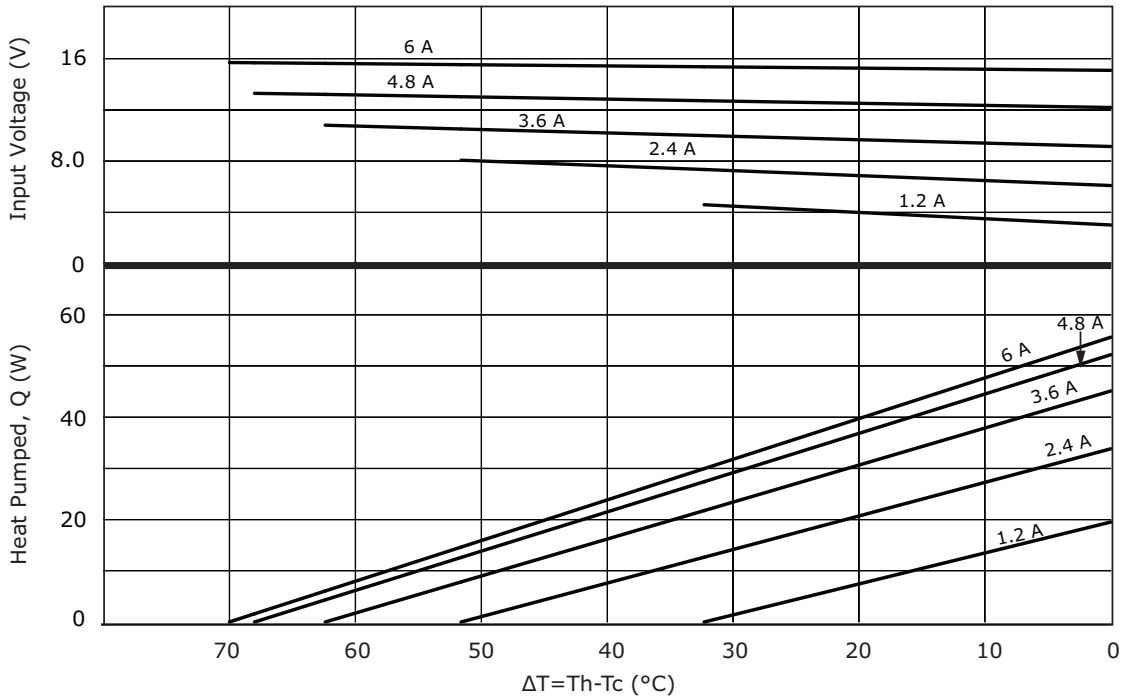

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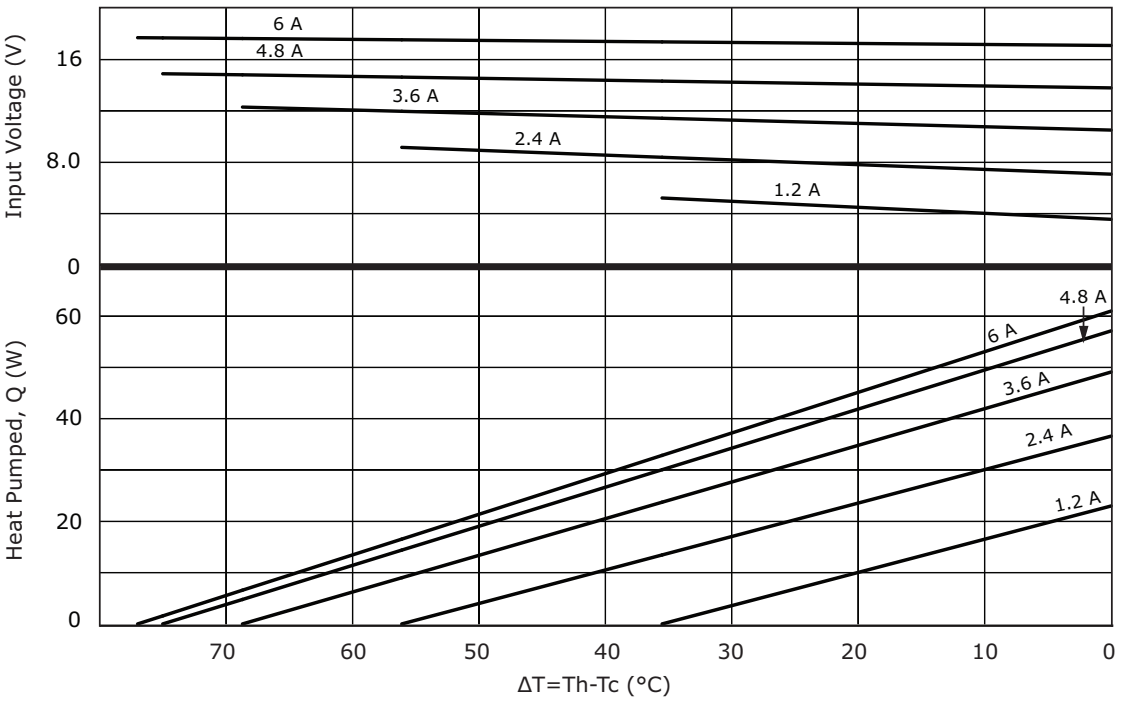

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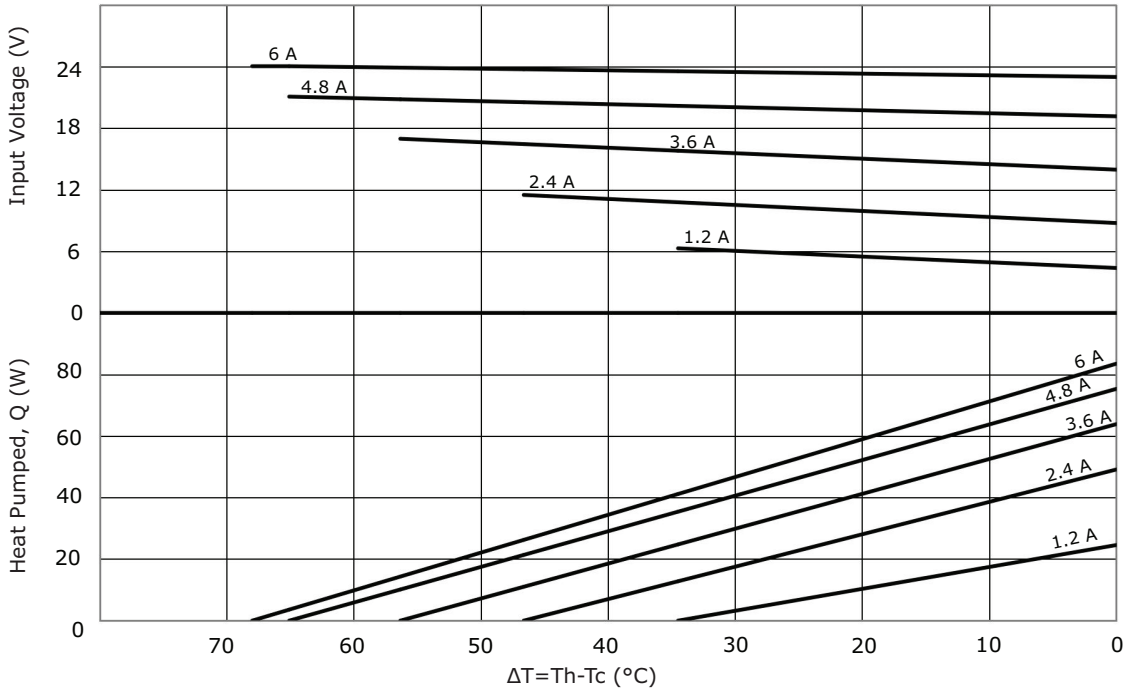

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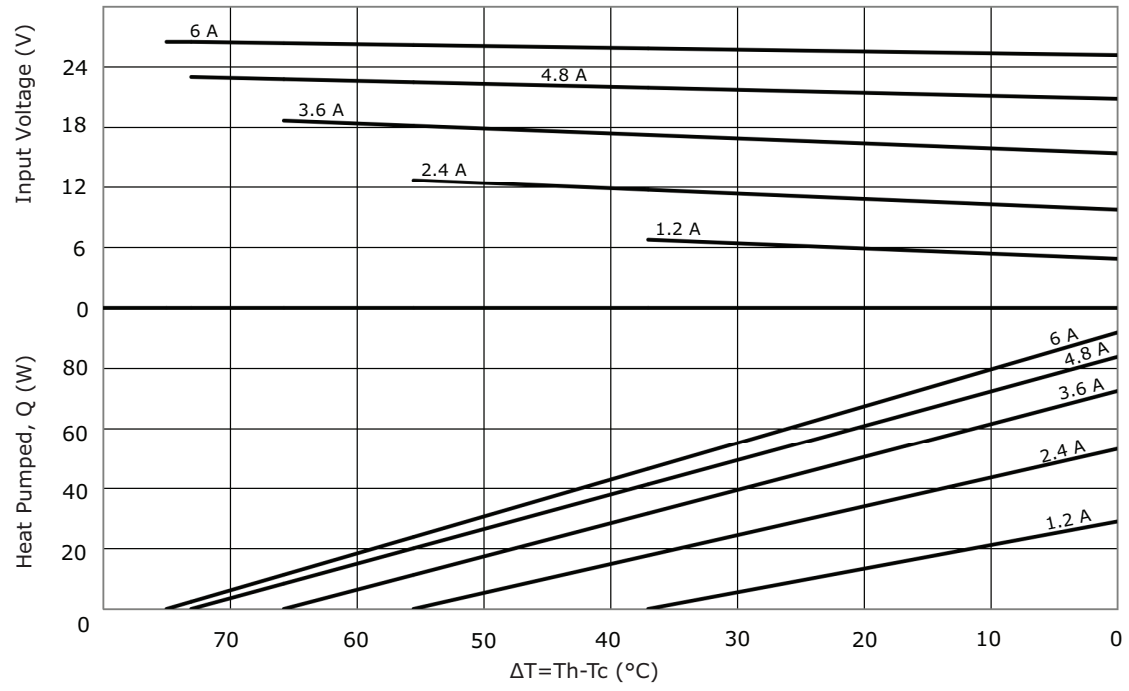

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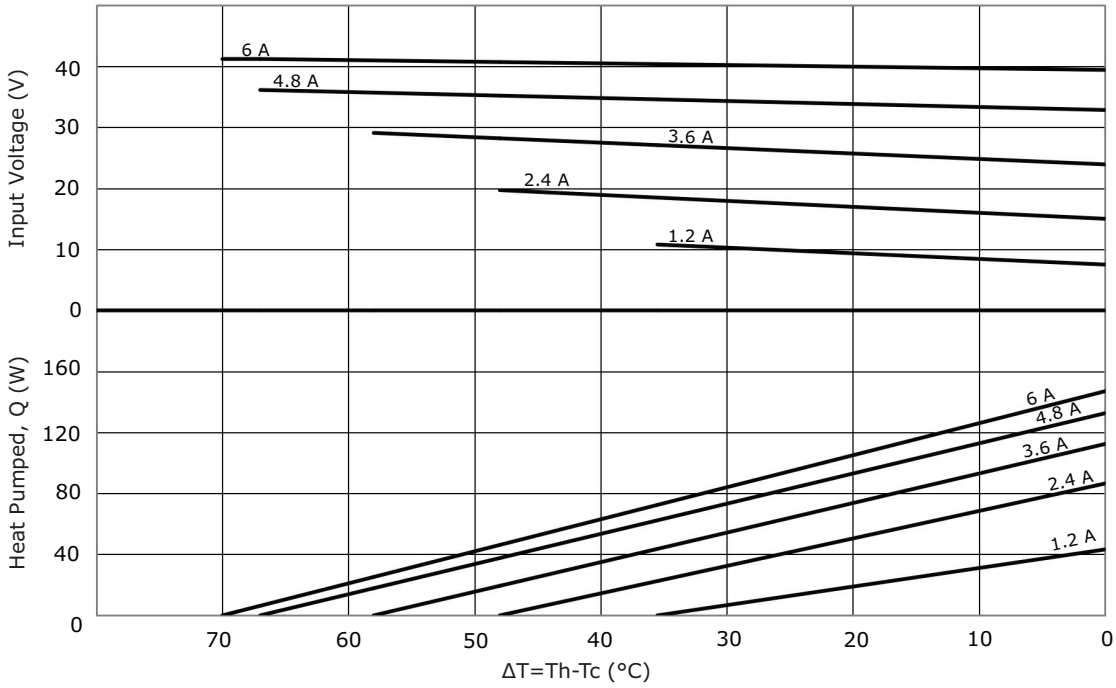

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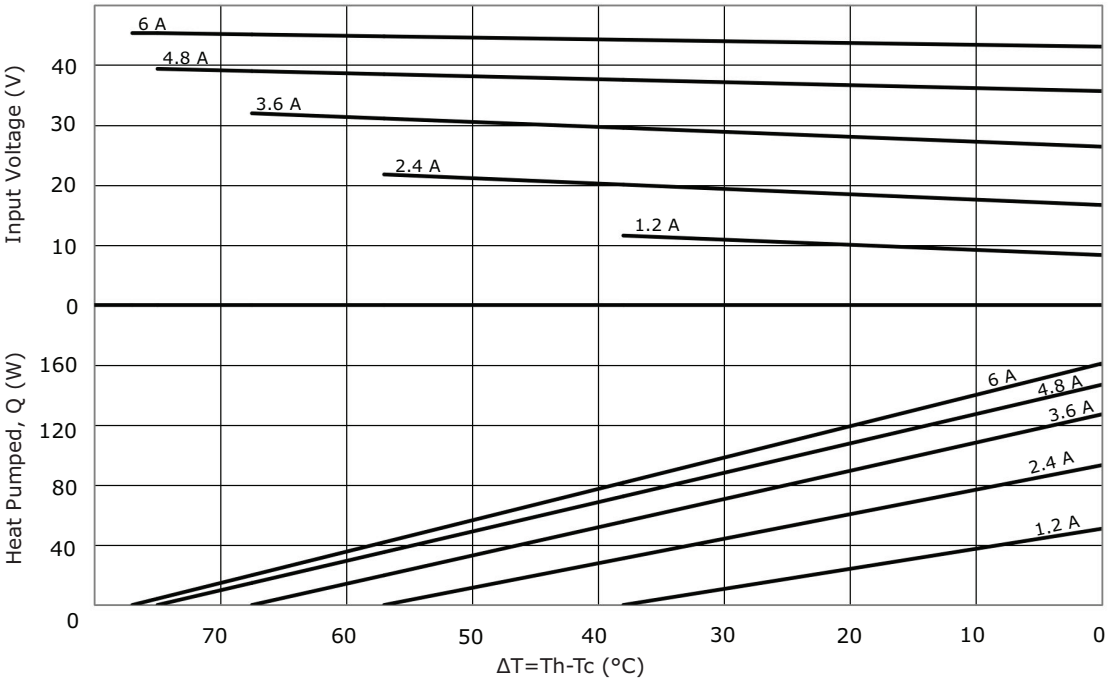

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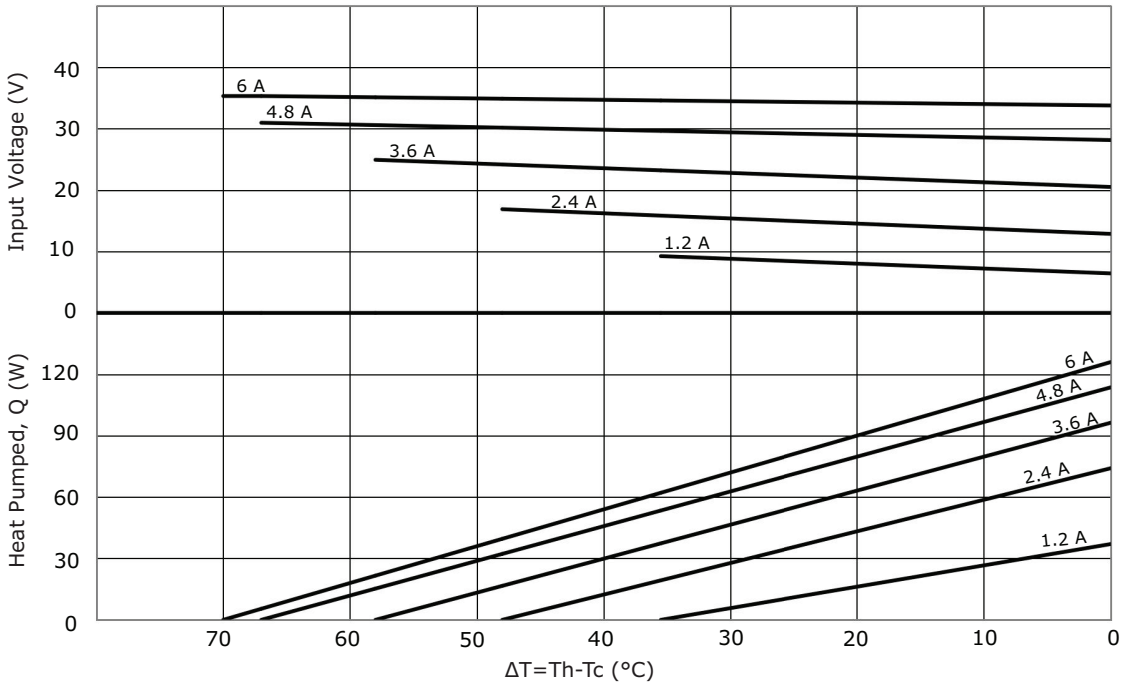

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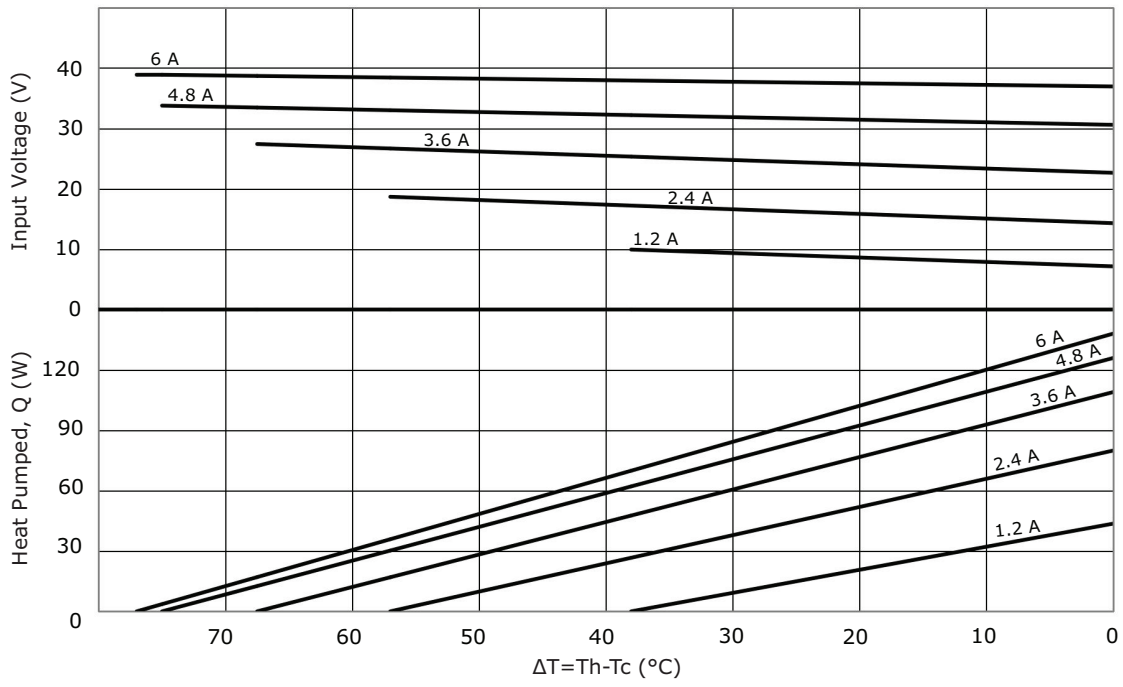

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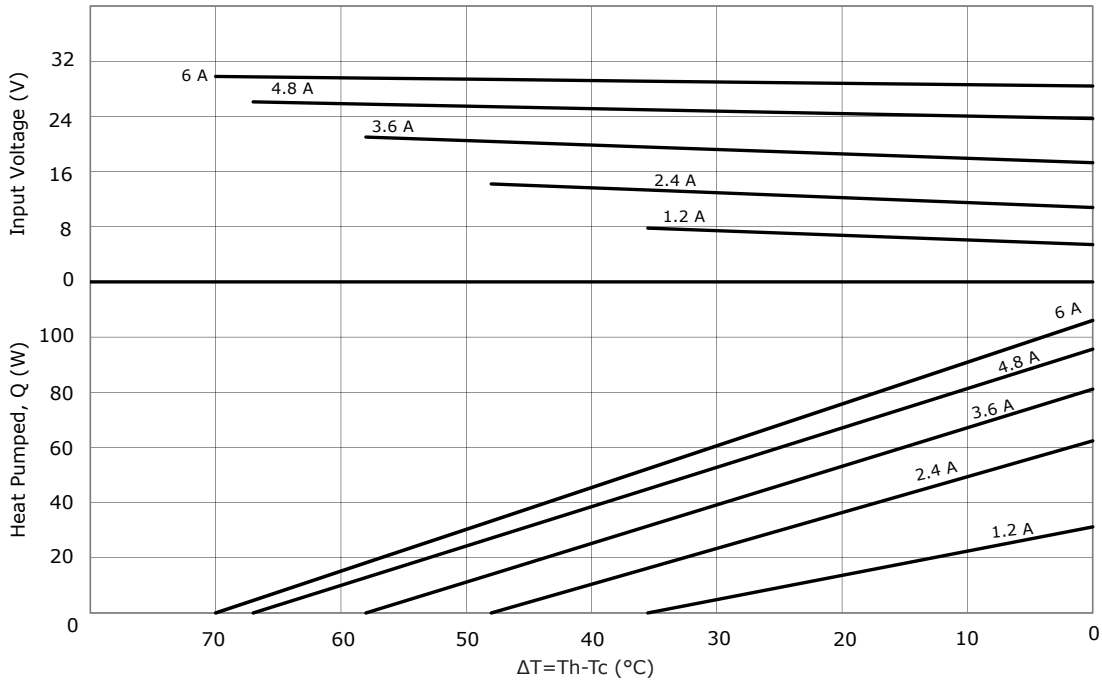

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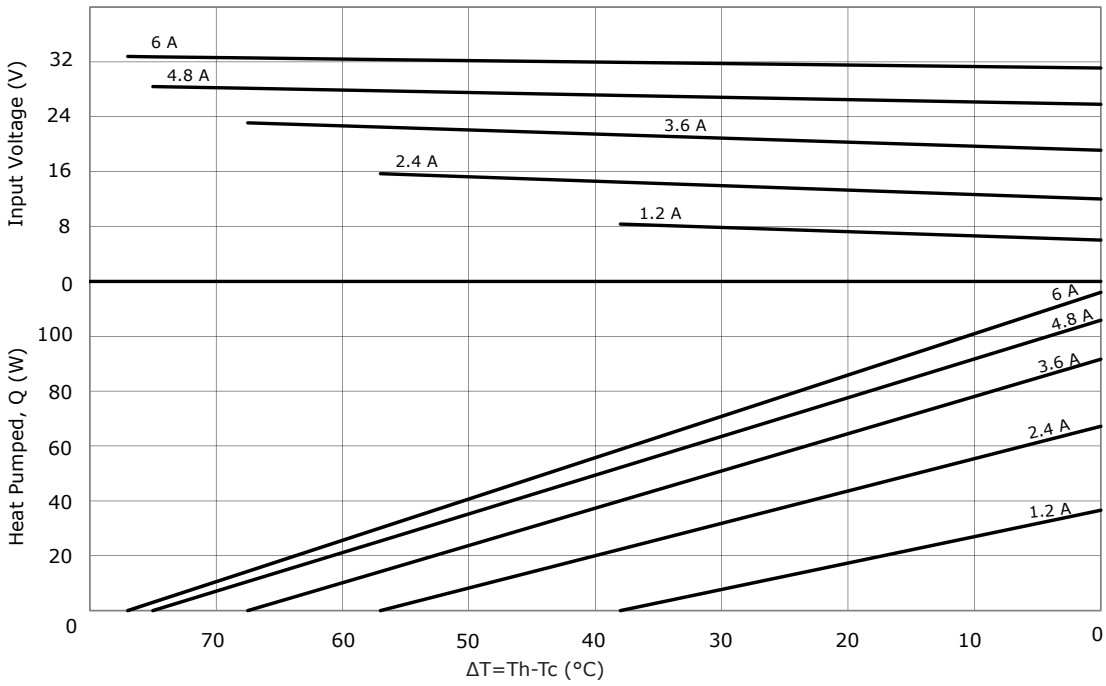

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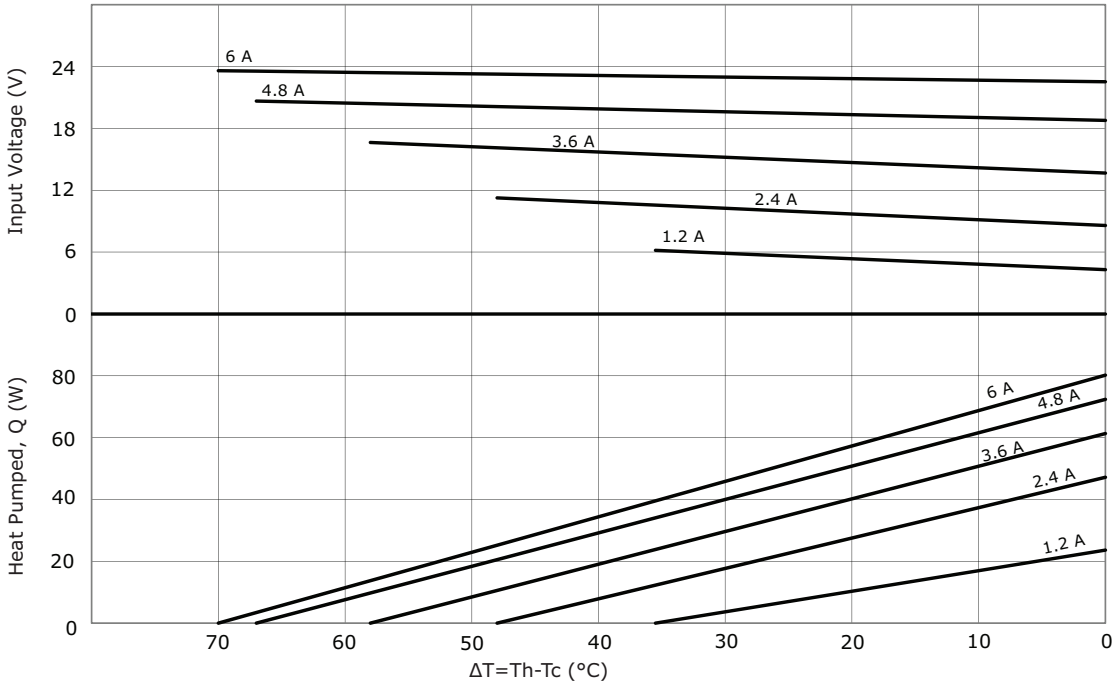

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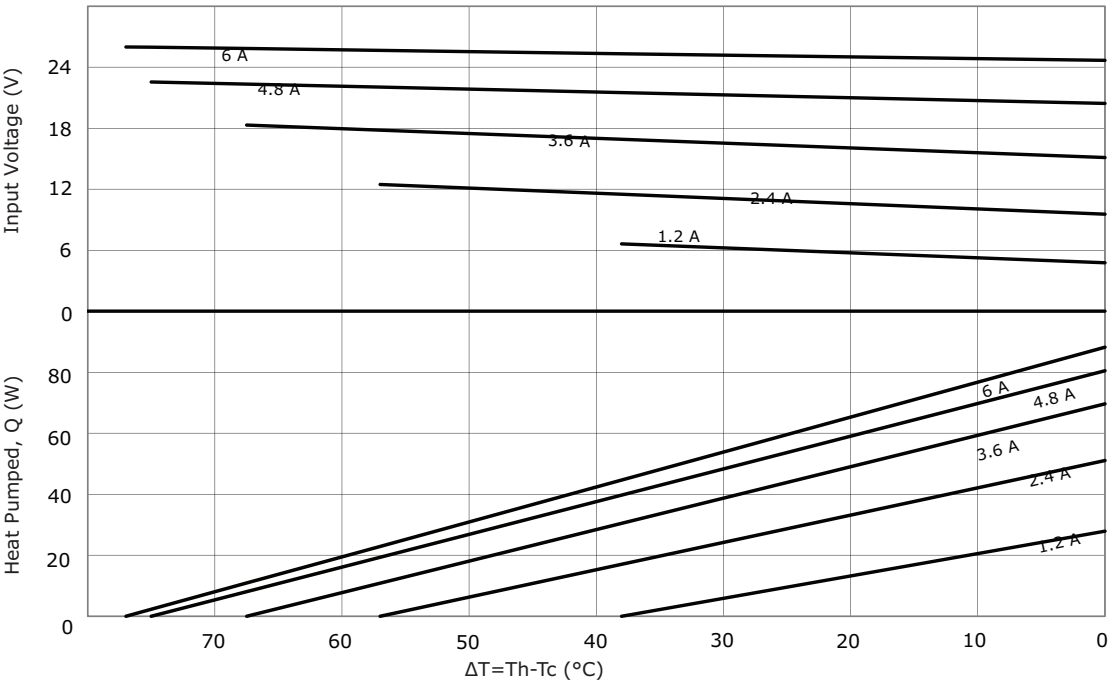

REVISION HISTORY

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

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

CUI DEVICES

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

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

CUI Devices 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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ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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