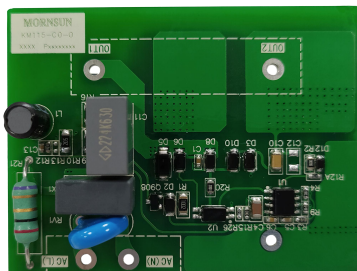


Energy-saving Wide-voltage Contactor Control Module KM115-C0-O

MORNSUN®

115A Energy-saving Wide-voltage Contactor Control Module



RoHS

FEATURES

- Energy-saving Wide-voltage Contactor Control Module
- Ultra-wide 75 - 305VAC/VDC input voltage range
- Operating ambient temperature range: -40°C to +70°C
- Low apparent power
- High reliability
- Quick response
- EMC meet CISPR22/EN55022 CLASS A
- 5 years warranty
- Customization available

KM115-C0-O — is a control module specially designed for contactor. It only needs one coil and is compatible with many contactor models. It features low power consumption, low delay, small size, low cost, high reliability and strong anti-tripping capability. The product is safe and reliable, with stable pull-in, fast response, wide input voltage range, strong anti-grid power shaking capability, universal AC and DC, no need for short-circuit design. It is widely used in various types of contactor power-saving and a new generation of wide-voltage input contactors. Applicable to the upgrade and optimization needs of most 115A shells in the market.

Selection Guide

Part No.	Contactor Rated operational current	Control voltage range
KM115-C0-O	115A	75-305 VAC/VDC

Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range	AC/DC input	75	--	305	VAC/VDC
AC Input Frequency	AC input	47	--	63	Hz
Apparent Power	275VAC	--	--	6.5	VA

Operating Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Operating Voltage	AC/DC input	60	—	75	VAC/VDC
Release Voltage	AC/DC input	40	—	55	
Operating Current	AC/DC input	—	2.1	—	A
Hold-in Current	AC/DC input	—	0.12	—	
Start-up Delay Time	100-305VDC	—	50	65	ms
	100-305VAC	—	60	80	
Turn-off Delay Time	75-305VDC	—	55	70	
	75-305VAC	—	45	60	
No-load Switch Frequency	25°C, 275VAC	3600 times / H			
	70°C, 275VAC	2400 times / H			

General Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		-40	--	+70	°C
Storage Temperature		-40	--	+85	
Storage Humidity		--	--	90	%RH
Switching Frequency		--	23.5	--	KHz
Safety Class		CLASS II			
MTBF		MIL-HDBK-217F@25°C > 300,000 h			

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2025.06.10-A/2 Page 1 of 4

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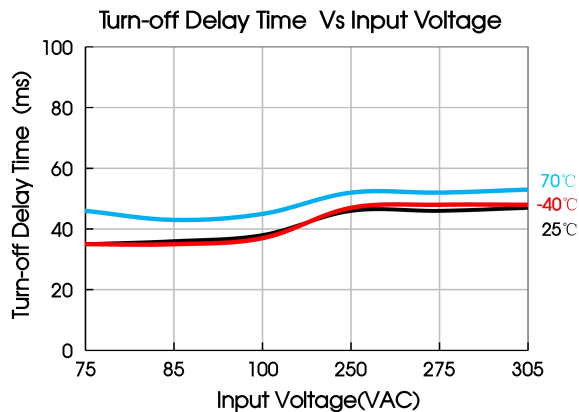
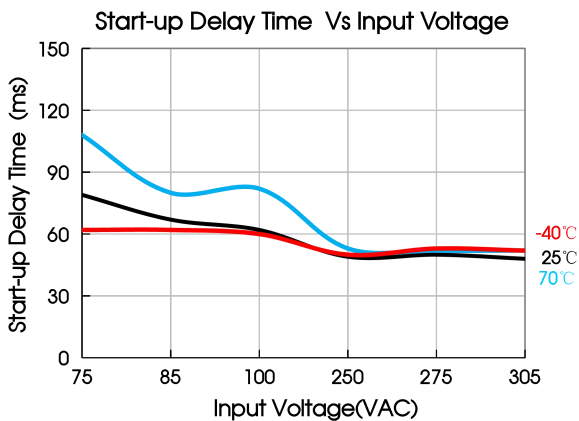
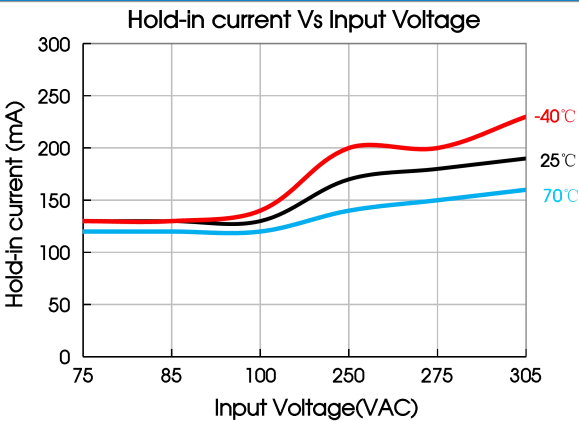
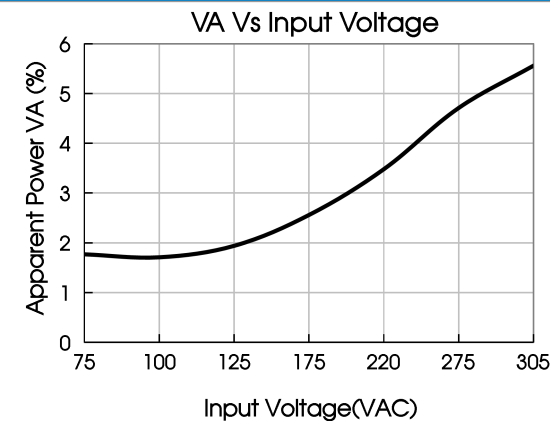
Mechanical Specifications

Dimension	67.00 x 50.40 x 18.50 mm
Weight	20g(Typ.)
Cooling Method	Free air convection

Electromagnetic Compatibility (EMC)

Emissions	CE	CISPR32/EN55032	CLASS A	
	RE	CISPR32/EN55032	CLASS A	
Immunity	ESD	IEC/EN61000-4-2	Contact $\pm 4\text{KV}$ /Air $\pm 8\text{KV}$	Perf. Criteria A
	RS	IEC/EN61000-4-3	10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4	$\pm 2\text{KV}$	perf. Criteria A
	Surge	IEC/EN61000-4-5	line to line $\pm 1\text{KV}$	perf. Criteria A
	CS	IEC/EN61000-4-6	10 Vr.m.s	perf. Criteria A
	Voltage dips, short interruption and voltage variations	IEC/EN61000-4-11	0%, 70%	perf. Criteria A

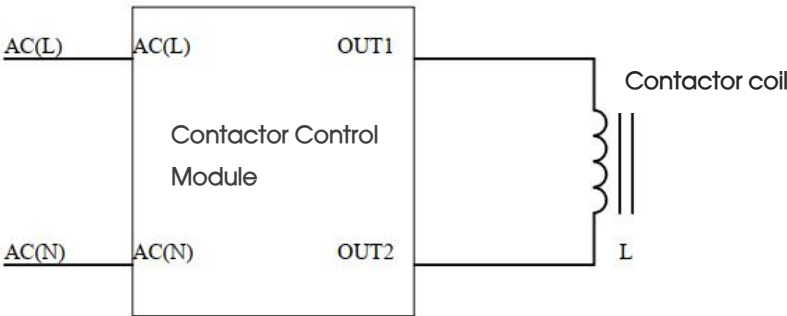
Product Characteristic Curve



Note: ①This product is suitable for applications using natural air cooling; for applications in closed environment please consult factory or one of our FAE.

Design Reference

1. Typical application



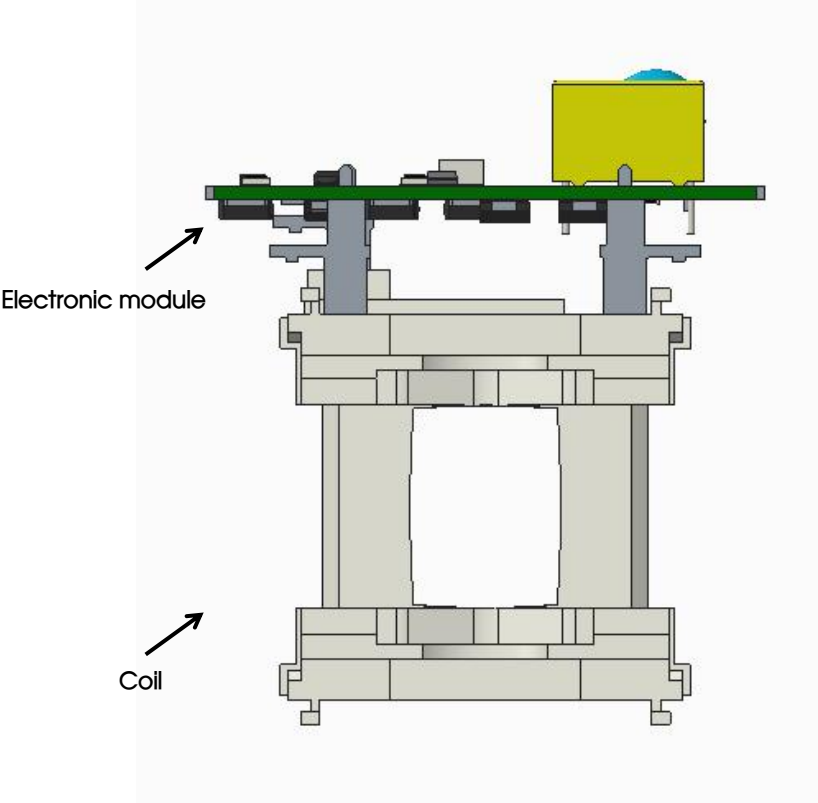
See Fig. 1 Typical application

Recommended coil parameter table

Air-cored inductance	Release inductance	Operating inductance	Coil resistance	Coil diameter	Coil turns
36mH	116mH	480mH	27 Ω	0.35mm	1220T

Note: above datas tested under 25℃

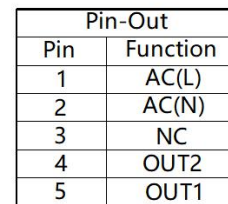
2. Installation reference



3. For additional information please refer to Contactor Control Module application notes on www.mornsun-power.com.

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THIRD ANGLE PROJECTION



Note:

- Mornsun Guangzhou Science & Technology Co., Ltd.

www.mornsun-power.com