

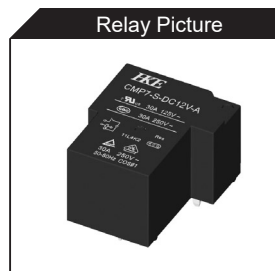


Features

- High contact capacity in a compact package, up to 50A/250VAC
- Available in both open frame and plastic sealed package
- UL class F insulation system
- Applications: Industrial and home appliances, HVAC, etc

Safety Approval

US NO.E164730
 NO.CQC08002027615
 NO.40009646
 NO.50125641



ORDERING INFORMATION

CMP7 - **S** - **DC12V** - **A** **T** *R

Remark: *R - Without common terminal

Model	Enclosure	Coil Voltage	Contact Form	Contact Rating
	S - Plastic Sealed Type Blank - Open Type	DC5V,DC6V,DC9V DC12V,DC24V,DC48V	A - 1 Form A C - 1 Form C	Blank - A:30A 250VAC/24VDC C:NO:20A 250VAC/24VDC NC:15A 250VAC/24VDC T - A:40A 250VAC/24VDC C:NO:40A 250VAC/24VDC NC:30A 250VAC/24VDC F - A:50A 250VAC/24VDC(1 Form A only)

SPECIFICATION

CONTACT DATA

Contact Form	1 Form A, 1 Form C	
Contact Material	Ag Alloy	
Contact Rating	A: 30A 250VAC/24VDC AT: 40A 250VAC/24VDC C: NO: 20A 250VAC/24VDC NC: 15A 250VAC/24VDC CT:NO: 40A 250VAC/24VDC NC: 30A 250VAC/24VDC AF: 50A 250VAC/24VDC	
Contact Resistance	Max.100mΩ(6VDC 1A)	
Load	Max. Switching Voltage	250VAC/28VDC
	Max. Switching Current	A/C: 30A AT/CT: 40A AF: 50A
	Max. Switching Power	A/C: 7,500VA,560W AT/CT: 10,000VA,560W AF: 12,500VA,560W
	Min. Switching Load	5VDC,100mA
Life	Electrical	A/C: 100,000 AT/CT: 50,000 AF: 30,000
	Mechanical	10,000,000

COIL DATA

Nominal Coil Power (A/C, AT/CT)	0.9W
Nominal Coil Power (AF)	1.6W

GENERAL DATA

Insulation Resistance		Min.1000MΩ 500VDC
Dielectric Strength	Between open contacts	1,500VAC,1min
	Between coil and contacts	2,500VAC,1min
Operate Time		Max.15ms
Release Time		Max.10ms
Operating Temperature		-40℃ to +85℃
Humidity		35~95%RH, +40℃
Shock Resistance	Endurance	1,000m/s ²
	Misoperation	100m/s ²
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude
Weight		Approximately 27.0g

Note:Data shown are of initial value

ISO9001, IATE16949, ISO14001 Approved

CMP7**SAFETY APPROVAL**

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
UL E164730	C	0.9W	5-48VDC	NO/NC: 20A/15A 125VAC	Class F insulation Ambient Temperature: 85°C
	A	0.9W	5-48VDC	30A 125VAC	
	CT	0.9W	5-48VDC	NO/NC: 40A/30A 250VAC	Class F insulation Ambient Temperature: 40°C
	AT	0.9W	5-48VDC	40A 250VAC	
	C	0.9W	5-48VDC	B300	Class F insulation Ambient Temperature: 85°C
	C	0.9W	5-48VDC	C300	
	C	0.9W	5-48VDC	R300	
CQC08002027615 (GB/T 21711.1-2008)	A	0.9W	5-48VDC	30A 250VAC	Ambient Temperature: 85°C
	C	0.9W	5-48VDC	NO/NC:20A/15A 250VAC	
	AT	0.9W	5-48VDC	40A 250VAC	Ambient Temperature: 40°C
VDE 40009646	A	0.9W	5-48VDC	30A 250VAC	Ambient Temperature: 70°C
	C	0.9W	5-48VDC	NO: 20A 250VAC NC: 15A 250VAC/24VDC	
TUV 50125641-0001	A	0.9W	5-48VDC	30A 250VAC	Ambient Temperature: 85°C
	C	0.9W	5-48VDC	NO/NC:20A/15A 250VAC	
TUV 50125641-0002 (EN 60730-1)	A	0.9W	5-48VDC	30(8)A 250VAC	Ambient Temperature: 85°C
	C	0.9W	5-48VDC	NO/NC:20(4)A/15(3)A 250VAC	
Explosion-proof Certificate CNEx16.2101U	A	0.9W	12VDC	30A 250VAC	Mark: Ex nC IIC Gc

Specifications subject to change without notice

COIL DATA

Ambient Temperature: 23°C

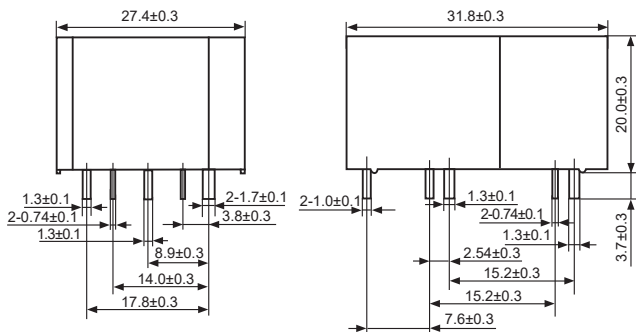
Model	Nominal Voltage VDC	Coil Resistance Ω ±10%	Operate Voltage $\leq$ VDC	Release Voltage $\geq$ VDC	Coil Power mW
CMP7-S-DC5V	5	27.8	3.5	0.5	0.9
CMP7-S-DC6V	6	40.0	4.2	0.6	
CMP7-S-DC9V	9	90.0	6.3	0.9	
CMP7-S-DC12V	12	160	8.4	1.2	
CMP7-S-DC24V	24	640	16.8	2.4	
CMP7-S-DC48V	48	2560	33.6	4.8	
CMP7-S-DC5V-AF	5	15.63	3.5	0.5	1.6
CMP7-S-DC6V-AF	6	22.5	4.2	0.6	
CMP7-S-DC9V-AF	9	50.63	6.3	0.9	
CMP7-S-DC12V-AF	12	90.0	8.4	1.2	
CMP7-S-DC24V-AF	24	360	16.8	2.4	
CMP7-S-DC48V-AF	48	1440	33.6	4.8	

ISO9001, IATE18949, ISO14001, Approved

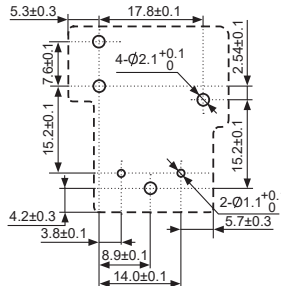
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

CMP7-S-DC××V-C
CMP7-S-DC××V-CT

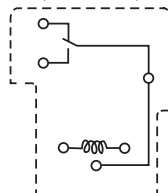
Outline



Mounting Hole Layout
(Bottom View)



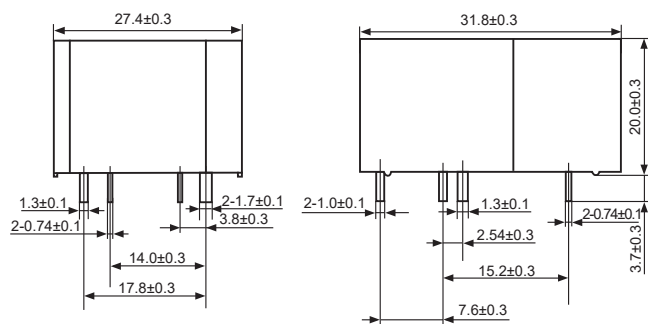
Wiring Diagram
(Bottom View)



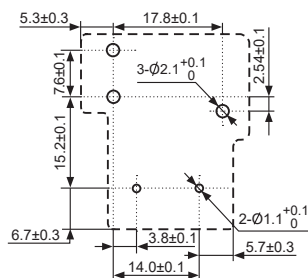
CMP7-S-DC××V-C R
CMP7-S-DC××V-CT R

Remark: R - Without common terminal

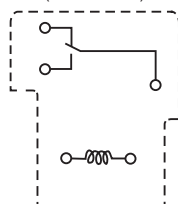
Outline



Mounting Hole Layout
(Bottom View)



Wiring Diagram
(Bottom View)



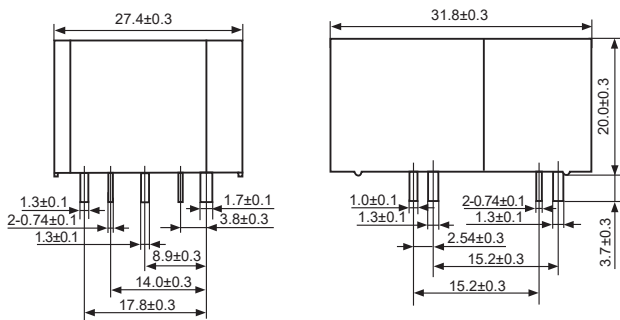
CMP7

POWER RELAY

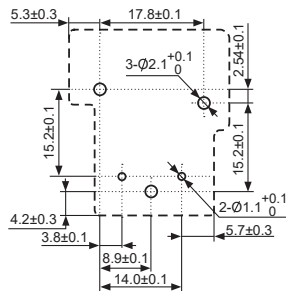
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

CMP7-S-DC××V-A
CMP7-S-DC××V-AT

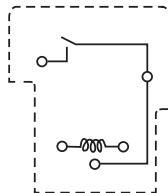
Outline



Mounting Hole Layout
(Bottom View)



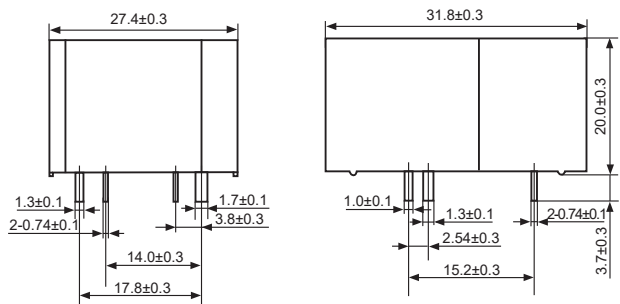
Wiring Diagram
(Bottom View)



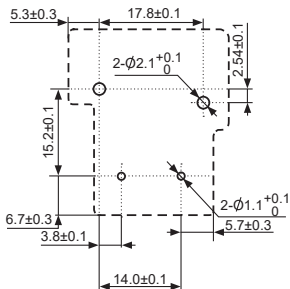
CMP7-S-DC××V-A R
CMP7-S-DC××V-AT R

Remark: R - Without common terminal

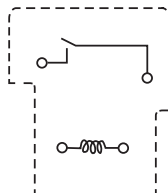
Outline



Mounting Hole Layout
(Bottom View)



Wiring Diagram
(Bottom View)

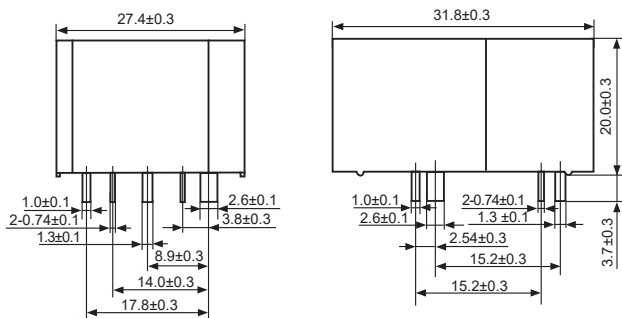


ISO9001, IATE18949, ISO14001 Approved

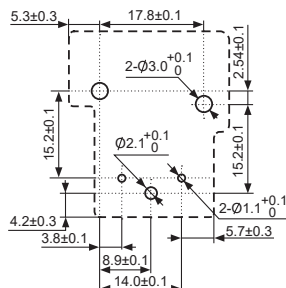
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

CMP7-S-DC××V-AF

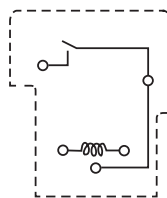
Outline



Mounting Hole Layout
(Bottom View)



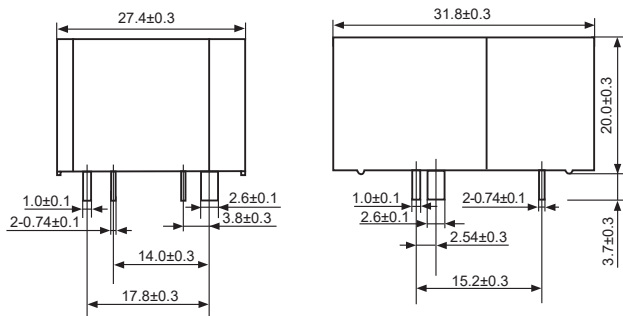
Wiring Diagram
(Bottom View)



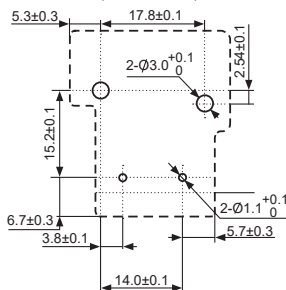
CMP7-S-DC××V-AF R

Remark: R - Without common terminal

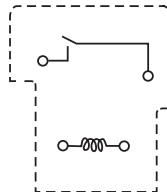
Outline



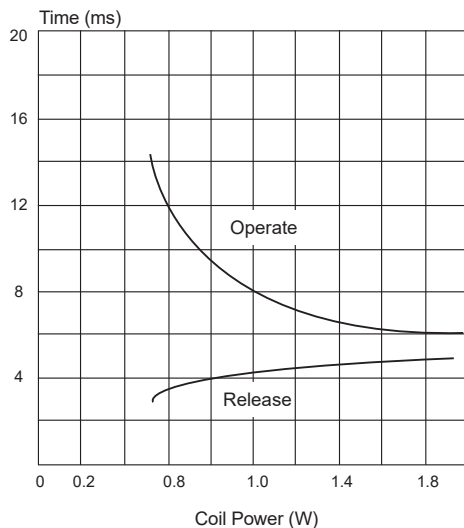
Mounting Hole Layout
(Bottom View)



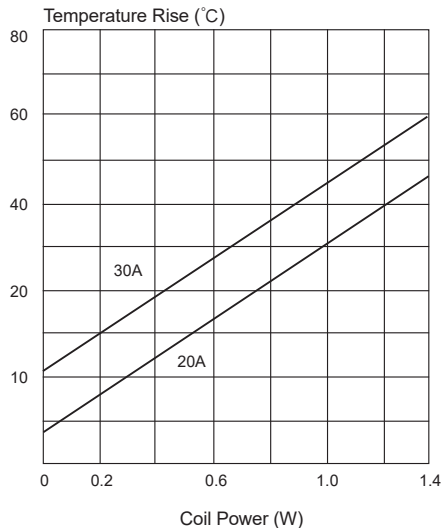
Wiring Diagram
(Bottom View)



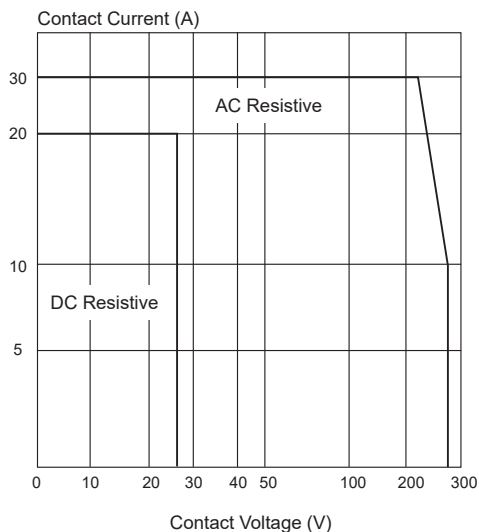
Time Curve



Coil Temperature Rise



Maximum Switching Power



Life Curves

