

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

20

© COPYRIGHT 20

BY -

ALL RIGHTS RESERVED.

PERFORMANCE DATA

PARAMETERS

UNITS

VALUE FOR EVC500 SERIES

CONTACT ARRANGEMENT : POWER CONTACTS

1 FORM X (SPST-NO-DM)

RATED OPERATING VOLTAGE  
(NOTE: VOLTAGES BETWEEN 450 TO 900 VDC ARE CAPABLE BUT LOAD DEPENDENT AND REQUEIRE TE ENGINEERING APPROVAL)

VDC

100-900

CONTINUOUS (CARRY) CURRENT, TYPICAL  
CONSULT FACTORY FOR REQUIRED CONDUCTORS  
FOR HIGHER (500+A) CURRENTS

A

500@85°C, 400 MCM CONDUCTORS

BREAK CURRENT AT 450 VDC

A

1560, 1CYCLE

COTACT RESISTANCE, TYPICAL(@200A)

mOHMS

0.5

LOAD LIFE

CYCLES

SEE DATASHEET

MECHANICAL LIFE

CYCLES

500,000

OPERATE TIME @ 25°C  
CLOSE (INCLUDES BOUNCE), TYPICAL  
BOUNCE (AFTER CLOSE ONLY), MAX  
RELEASE (INCLUDES ARCING), MAX @ 2000A

mS  
mS  
mS

20  
7  
12

DIELECTRIC WITHSTAND VOLTAGE

Vdc

2920 @ SEA LEVEL (LEKAGE<1 mA)

INSULATION RESISTANCE @ 500VDC

GOHMS

1

SHOCK, 11ms 1/2 SINE, PEAK, OPERATING

G

50

VIBRATION, SINE, 80-2000HZ, PEAK

G

20

OPERATING AMBIENT TEMPERATURE

°C

-40 TO 85

WEIGHT (NOMINAL)

kg

0.43

COIL DATA

VOLTAGE (WILL OPERATE)

9 ~ 36 VDC

VOLTAGE (MAX)

36VDC

PICK UP (CLOSE VOLTAGE MAX)

9VDC

INRUSH CURRENT (MAX)

3.8A

HOLDING CURRENT (AVG)

0.13A @ 12V

INRUSH TIME (MAX)

130ms

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN SC HWANG 04JAN2016

CHK SH JANG 04JAN2016

APVD JK KIM 04JAN2016

PRODUCT SPEC -

APPLICATION SPEC -

WEIGHT -

CUSTOMER DRAWING

DIMENSIONS:  
mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
0 PLC ±-  
1 PLC ±0.3  
2 PLC ±0.13  
3 PLC ±-  
4 PLC ±-  
ANGLES ±-  
FINISH -

TE Connectivity

RELAY  
EVC500 ECONOMIZER WITH JUMPER

SIZE A2

CAGE CODE 00779

DRAWING NO C-2299223

RESTRICTED TO -

SCALE 1:1

SHEET 1 OF 2

REV C2

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B1	REVISED (ECR-17-008878)	22JUN2017	SC	JK
	C	REVISED (ECR-17-009138)	23OCT2017	SC	JK
	C1	REVISED (ECR-17-017096)	18DEC2017	SC	JK
	C2	REVISED (ECR-24-211860)	24JUN2024	HN	JY

M8 X 1.25 POWER TEMINALS  
(HARDWARE SUPPLIED):  
2 X M8 FLAT WASHER, STAINLESS  
2 X M8 LOCK WASHER - SPLIT RING, STAINLESS  
2 X M8 X 1.25 NUT, STAINLESS  
TORQUE 80 TO 100 IN-LB [8.8 TO 11NM]

26.67<sup>+0.30</sup><sub>-0.50</sub>

A1 "+"  
POSITIVE TERMINAL

A2 "-"  
NEGATIVE TERMINAL

MOUNTING HARDWARE  
(NOT SUPPLIED):  
2 X M5 BOLT  
2 X M5 LOCK WASHER  
2 X M5 FLAT WASHER  
TORQUE 15 TO 30 IN-LB  
[1.7 to 3.3 NM]

Ø58.19±0.51

42.00±0.26

68.28±0.26

RED = "+" COIL

BLACK = "-" COIL

STAINLESS

52.00±0.51

80.48±0.26

12.60±0.26

55.81±0.63

72.30±0.63

62.5(MAX)

COIL WIRE IS 22AWG

2299223-1 SHOWN

1. TO AVOID OVERHEATING THE COIL ABOVE SHOULD NOT BE LEFT ON A AT FULL POWER (12V) FOR A LONG PERIOD OF TIME.

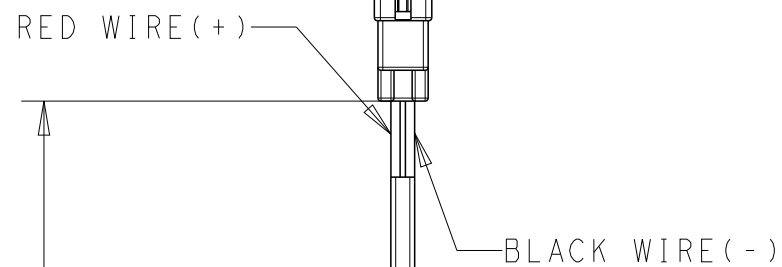
2. FOR ANY OTHER INFORMATION PLEASE REFER TO THE EVC500 GENERAL CUSTOMER DATASHEET

3. MUST MEET 3000VAC DIELECTRIC WITHSTAND VOLTAGE (1mA LEAKAGE) FOR 60 SECONDS.

4 SHEET1 IS SHOWN GENERAL DIMENSION OF 2299223-1&2.  
REFER TO SHEET2 ABOUT DIFFERENCE 2299223-1&2 AND 2299223-3.

1471-9 (3/13)

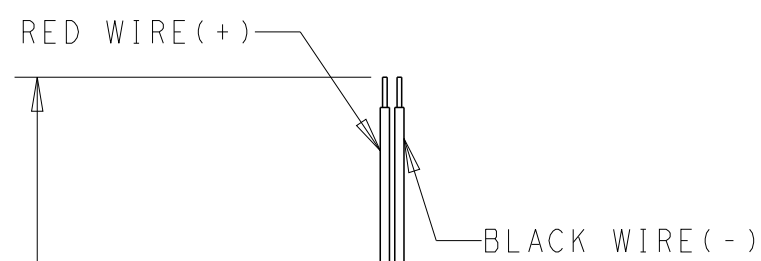
P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



SCALE 4:5

 OBSOLETE

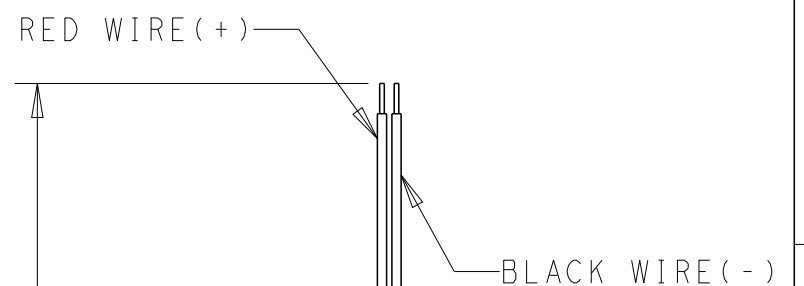
2299223-1	WITH TERMINALS AND CONNECTOR
PART NUMBER	DESCRIPTION



SCALE 4:5

 OBSOLETE



2299223-2	WITHOUT TERMINALS AND CONNECTOR
PART NUMBER	DESCRIPTION



SCALE 4:5

 OBSOLETE

2299223-3	WITHOUT TERMINALS AND CONNECTOR2
PART NUMBER	DESCRIPTION

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN -	 TE Connectivity						
		CHK -							
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RELAY EVC500 ECONOMIZER WITH JUMPER -					
		APVD -							
		PRODUCT SPEC -							
		APPLICATION SPEC -							
MATERIAL - - -		FINISH - -		WEIGHT -		SIZE A2	CAGE CODE 00779	DRAWING NO C-2299223	RESTRICTED TO -
CUSTOMER DRAWING				SCALE 1:1		SHEET 2 OF 2		REV C2	