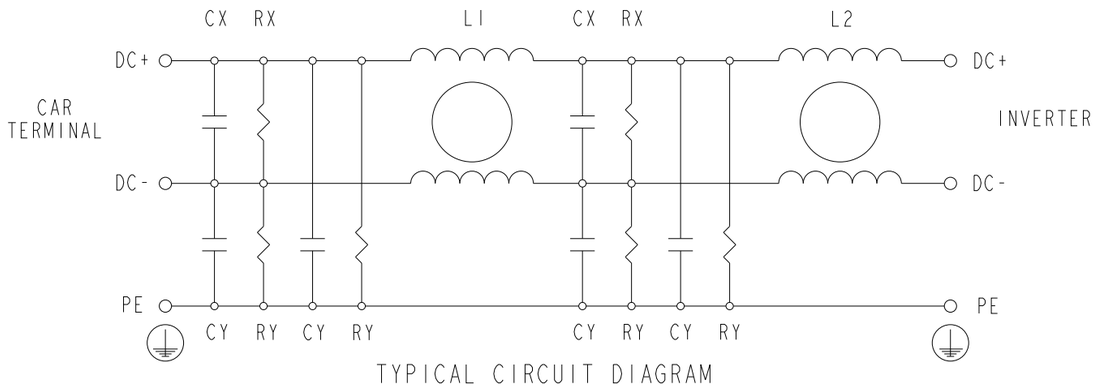
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| REVISIONS | | | | | |
|---|---|---|---|---|---|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | A | RELEASE TO PRODUCTION | 04MAY2023 | DM | CB |
| | | | | | |
| | | | | | |
| | | | | | |




TYPICAL CIRCUIT DIAGRAM

TYPICAL INSERTION LOSS
COMMON MODE 50/50Ω ; DIFFERENTIAL MODE 50/50Ω

| 1600 EVX B D | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FREQUENCY(MHz) | 0.01 | 0.05 | 0.15 | 0.5 | 1 | 3 | 5 | 10 | 30 |
| COMMON MODE | 10 | 18 | 40 | 53 | 42 | 34 | 30 | 24 | 16 |
| DIFFERENTIAL MODE | 26 | 40 | 42 | 44 | 40 | 34 | 34 | 30 | 30 |

SAFETY ORGANIZATIONS
THIS FILTER WILL BE FORMALLY RECOGNIZED, CERTIFIED OR APPROVED BY THE LISTED AGENCY. THEREFORE, ALL TEST/REQURIEMENTS SPECIFIED IN THE LATEST REVISION OF THE FOLLOWING AGENCY STANDARDS WILL BE MET:

UL RECOGNIZED AS PER
UL 60939-3 AND CSA22.2 No 8 1600A / 1000VDC / 55°C

OPERATING SPECIFICATION
LINE CURRENT/VOLTAGE: 1600A, 1000VDC

OVERLOAD CAPABILTY: 135% RATED CURRENT FOR 15 MINUTES

OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -40°C TO +55°C

IN AN AMBIENT, Ta, HIGHER THAN 55°C, THE MAXIMUM OPERATING CURRENT, Io, IS AS FOLLOWS:

$$Io = Ir\sqrt{\frac{85-Ta}{55}}$$

RELIABILITY SPECIFICATIONS
STORAGE TEMPERATURE: -40°C TO +100°C
HUMIDITY: 21 DAYS @ 40°C AND 95% RH

TEST SPECIFICATIONS
INDUCTANCE, NOMINAL: 0.0188mH

CAPACITANCE @ 1kHz, 0.250VAC MAX, 25°C +/-1°C
LINE TO GROUND, NOMINAL: 2000nF +/-20%
LINE TO LINE, NOMINAL: 6.6µF +/-20%

DISCHARGE RESISTOR
LINE TO GROUND: 6.6MΩ 2W
LINE TO LINE : 10MΩ 2W
IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6GΩ

HIPOT RATING (ONE MINUTE)
LINE TO GROUND: 6000 VDC FOR 2 SECONDS
LINE TO LINE: 3600 VDC FOR 2 SECONDS

FILTER APPROVAL
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

| TE PN | CATALOG NO. | Y CAPACITANCE (nF) |
|---|---|---|
| 2-2443554-4 | 1600 EVX B D | 2000 |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±0.01
3 PLC ±0.001
4 PLC ±0.0001
ANGLES ±-

MATERIAL -
-

FINISH -
-

DWN C.BOLLE 10JAN2023
CHK L.RAJ 25APR2023
APVD L.RAJ 25APR2023
PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

TE Connectivity

NAME
1600 EVX B D
HIGH CURRENT DC EMI FILTER
1000V 1600A

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A3 | 00779 | C-2-2443554-4 | - |

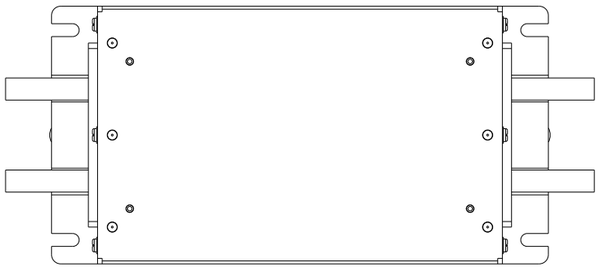
CUSTOMER DRAWING | SCALE 1:6 | SHEET 1 OF 2 | REV A

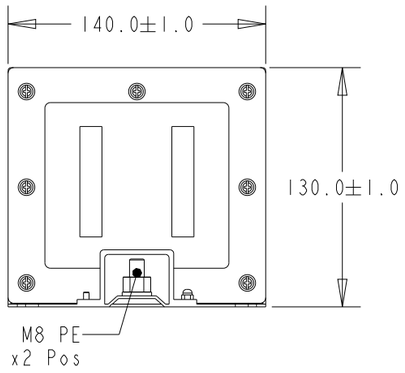
1470-19 (3/13)

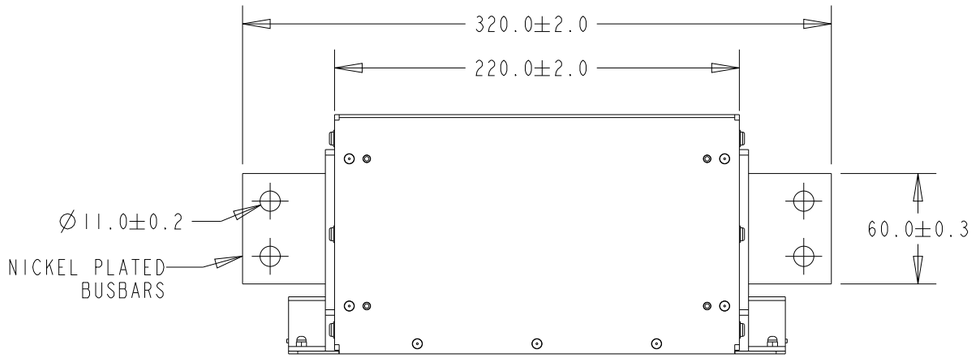
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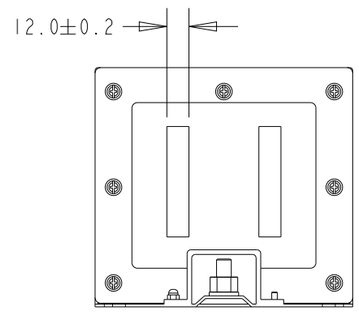
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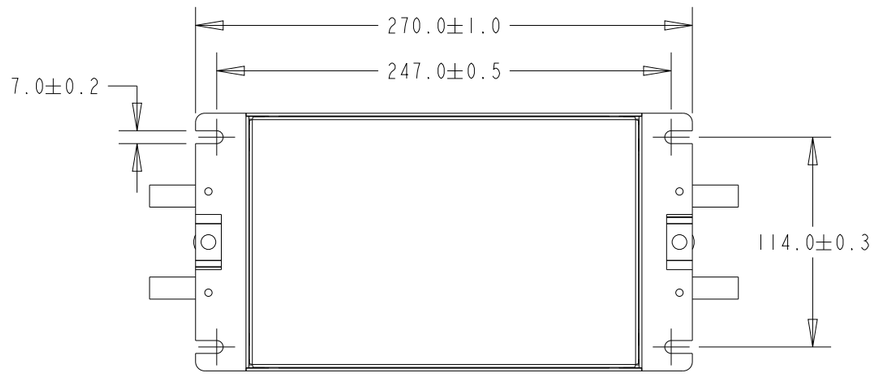
| REVISIONS | | | | | |
|---|---|---|---|---|---|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | | SEE SHEET 1 | | | |
| | | | | | |
| | | | | | |
| | | | | | |






NOTE 1 GROUND CONNECTIONS:
M8 GROUND NUTS TYP. TORQUE (Nm): 7
REMOVE PLASTIC COVER. MAKE CONNECTION. REPLACE PLASTIC COVER.

NOTE 2 INPUT OUTPUT CONNECTION BUSBAR:
CONNECTION METHOD: SCREW CONNECTION M11 FASTENER.

THE ABOVE DATA IS FOR GUIDANCE/REFERENCE ONLY.

THIS DRAWING IS A CONTROLLED DOCUMENT.

| | |
|---|---|
| DIMENSIONS: mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- ; 1 PLC ±0.1 ; 2 PLC ±0.01 ; 3 PLC ±0.001 ; 4 PLC ±0.0001 ; ANGLES ±- |
| MATERIAL - - | FINISH - - |

| | |
|---|---|
| DWN C.BOLLE | 10JAN2023 |
| CHK L.RAJ | 25APR2023 |
| APVD L.RAJ | 25APR2023 |
| PRODUCT SPEC - | |
| APPLICATION SPEC - | |
| WEIGHT - | |

TE Connectivity

NAME: 1600 EVX B D HIGH CURRENT DC EMI FILTER 1000V 1600A

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A3 | 00779 | C-2-2443554-4 | - |

CUSTOMER DRAWING | SCALE 1:6 | SHEET 2 OF 2 | REV A

1470-19 (3/13)

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