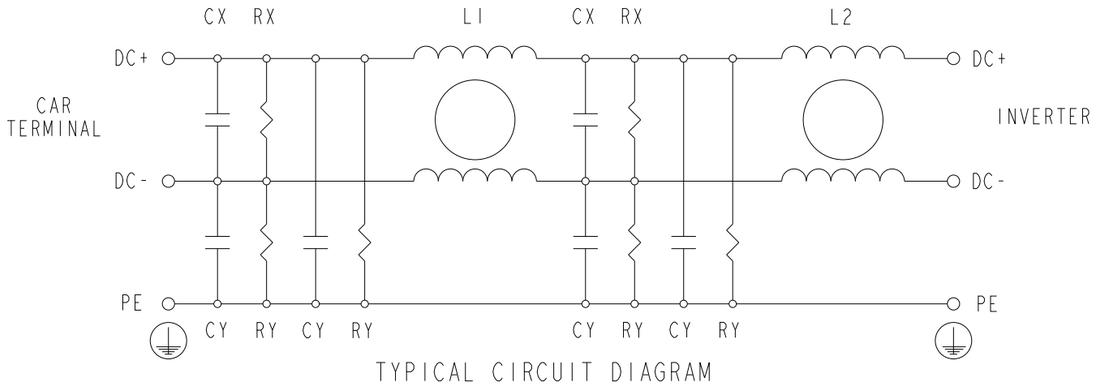
© 2023TE Connectivity. All Rights Reserved.

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 B									
FREQUENCY(MHz)	0.01	0.05	0.15	0.5	1	3	5	10	30
COMMON MODE	0	2	6	40	34	31	24	20	25
DIFFERENTIAL MODE	25	38	36	43	37	38	34	30	22

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: 100nF +/-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)
2-2443554-2	1600 EVX B B	100

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 B
HIGH CURRENT DC EMI FILTER
1000V 1600A

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

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

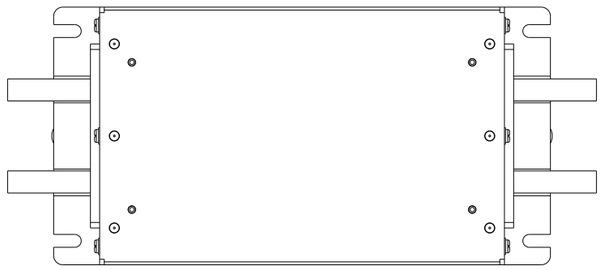
1470-19 (3/13)

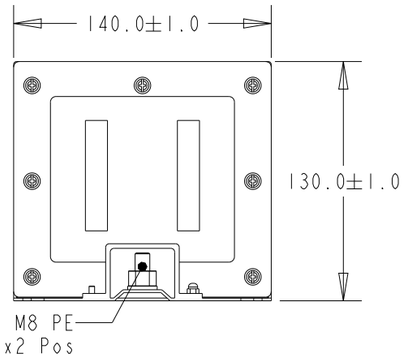
Downloaded from Arrow.com.

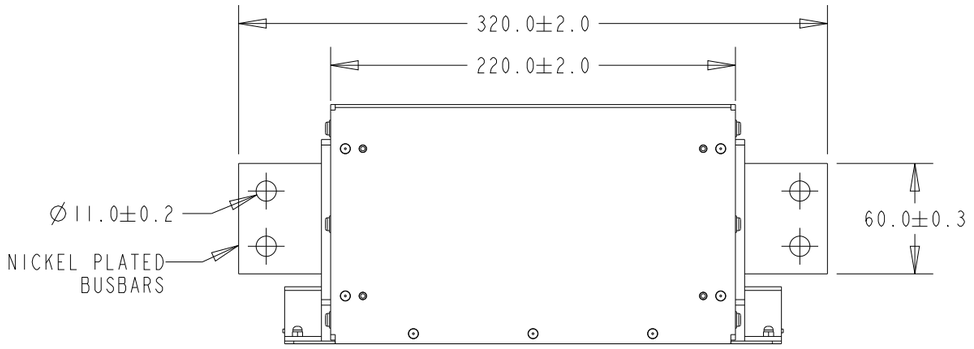
© 2023 TE Connectivity. All Rights Reserved.

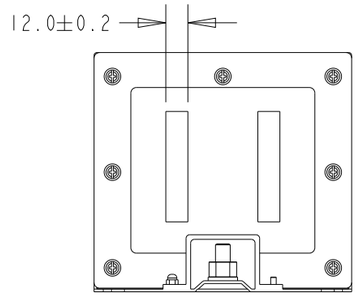
REVISIONS

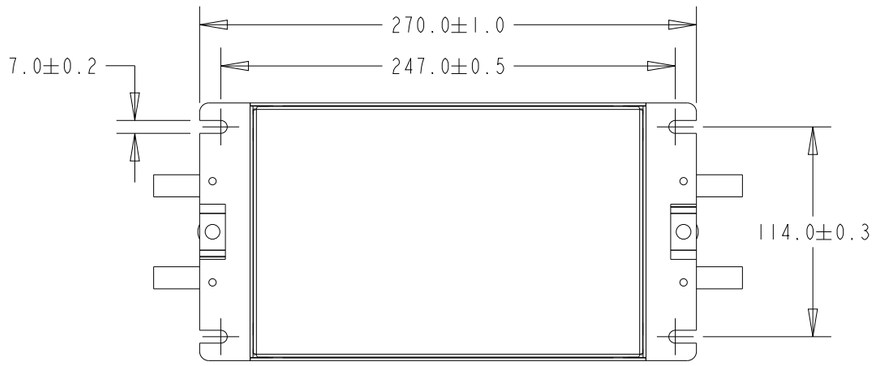
P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			











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:	TOLERANCES UNLESS OTHERWISE SPECIFIED:
mm	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 B
HIGH CURRENT DC EMI FILTER
1000V 1600A

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

CUSTOMER DRAWING

SCALE	SHEET	REV
1:6	2 OF 2	A

1470-19 (3/13)

Downloaded from Arrow.com.