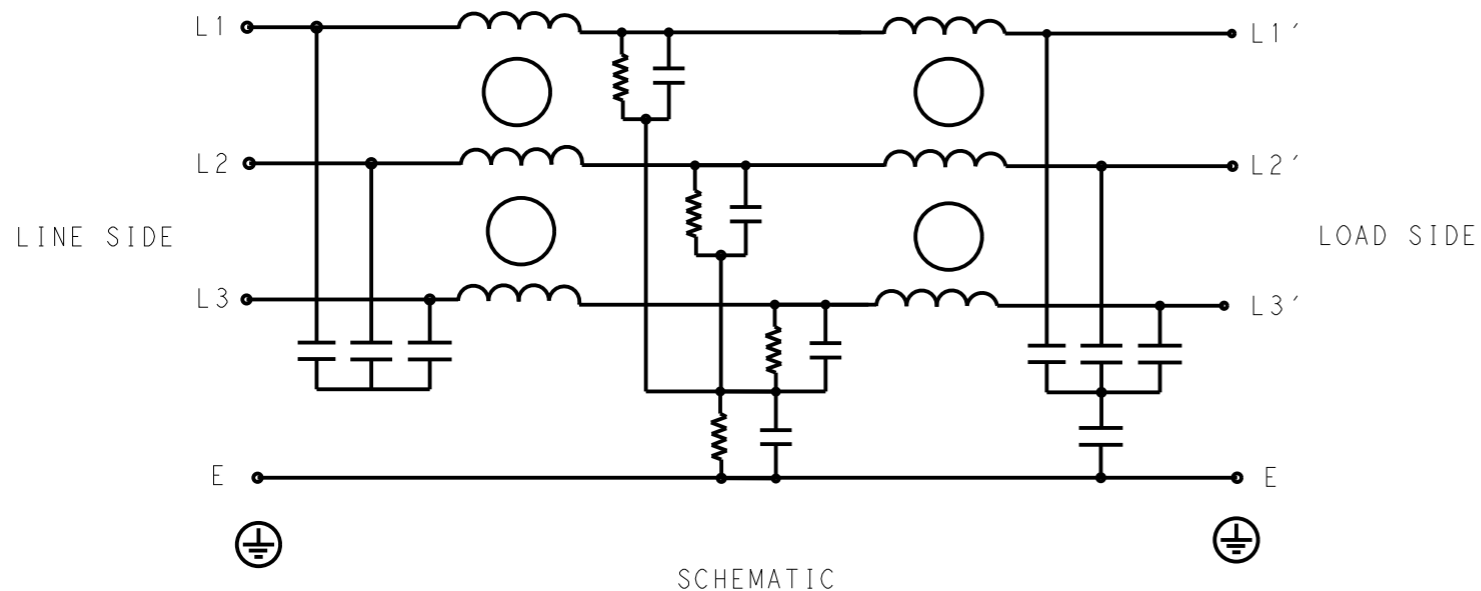


P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	INITIAL RELEASE	23APR2021	SR	CB



SAFETY ORGANIZATIONS

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

UL APPROVED 7A 520V 50Hz/60Hz 40°C  
 CSA APPROVED 7A 520V 50Hz/60Hz 40°C

OPERATING SPECIFICATION

LINE CURRENT/VOLTAGE: 7A, 520VAC  
 LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 10mA @ 230VAC, 50Hz

OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -25°C TO +40°C

IN AN AMBIENT, T<sub>a</sub>, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I<sub>o</sub>, IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{85 - T_a}{45}}$$

RELIABILITY SPECIFICATIONS

STORAGE TEMPERATURE: -40°C TO +85°C  
 HUMIDITY: 21 DAYS @ 40°C AND 95% RH

TEST SPECIFICATIONS

INDUCTANCE, NOMINAL: 10mH

CAPACITANCE @ 1kHz

LINE TO GROUND, NOMINAL: 0.66µF  
 LINE TO LINE, NOMINAL: 1.5µF

DISCHARGE RESISTOR

L/L I.R. 3MΩ 1W  
 L/N I.R. XXX  
 L/G I.R. 680KΩ 1W  
 N/G I.R. XXX  
 IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

RECOMMENDED RECEIVING INSPECTION HIPOT

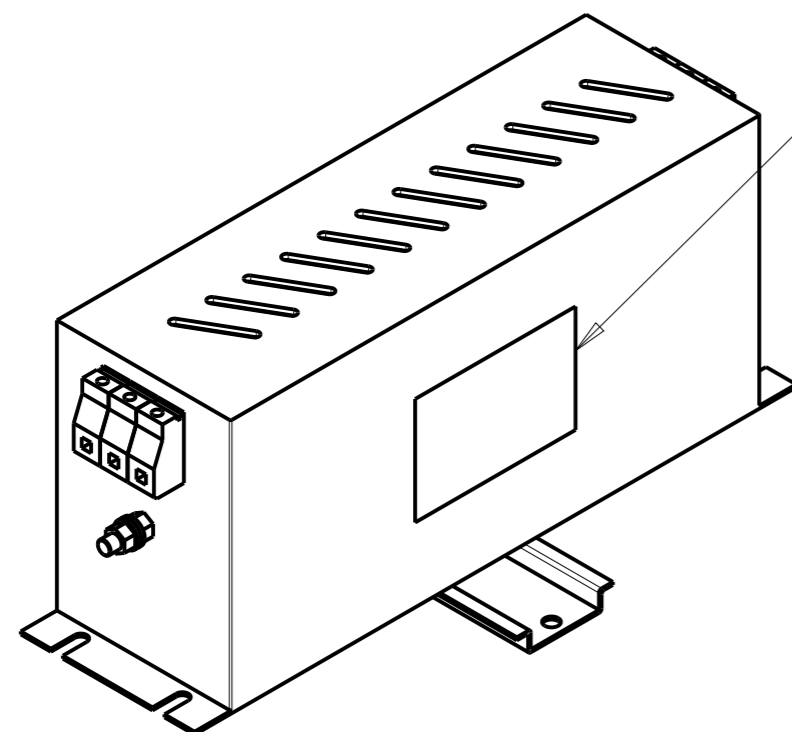
LINE TO GROUND FOR 1 MINUTE: 2856VDC  
 LINE TO LINE FOR 1 MINUTE: 2236VDC

FILTER APPROVAL

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

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

MHz	0.01	0.05	0.15	0.5	1	3	5	10	30
CM	70	72	75	80	75	60	50	48	19
DM	45	50	33	47	50	48	38	22	65



LABEL TO TE MARKING SPECIFICATION

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SUPREETH R 23APR2021		
		CHK CHRIS BOLLE 23APR2021		
		APVD CHRIS BOLLE 23APR2021	NAME POWER LINE FILTER FOR DIN RAIL 35 INSTALLATION 7KEHD10BBSDHM	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC -
		0 PLC ±- 1 PLC ±0.5 2 PLC ±0.40 3 PLC ±0.130 4 PLC ±0.0500 ANGLES ±-		APPLICATION SPEC -
MATERIAL -		FINISH -		WEIGHT -
		CUSTOMER DRAWING		SCALE 1:2 SHEET 1 OF 2 REV A

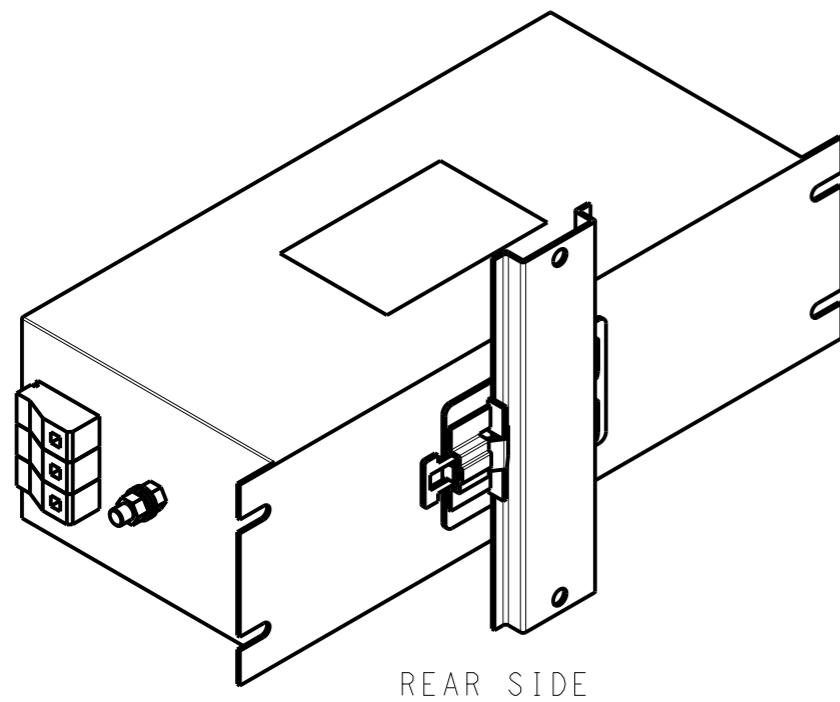
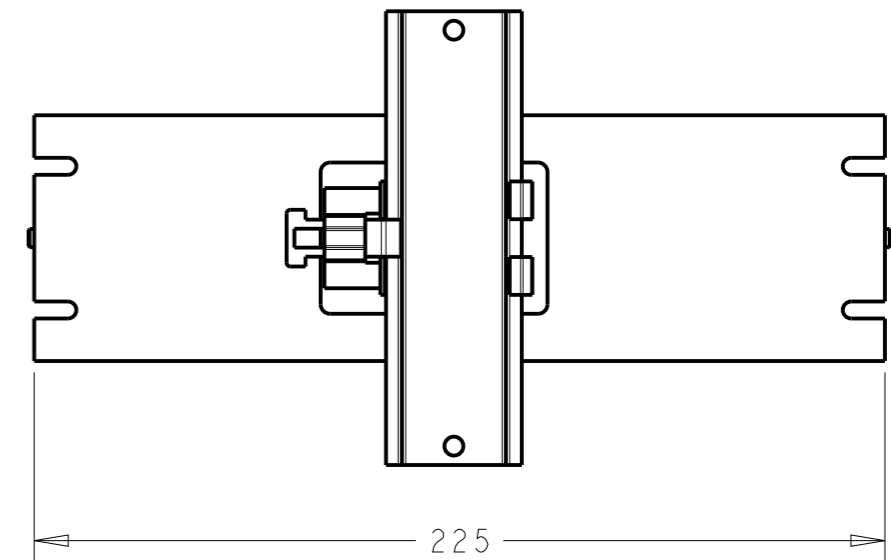
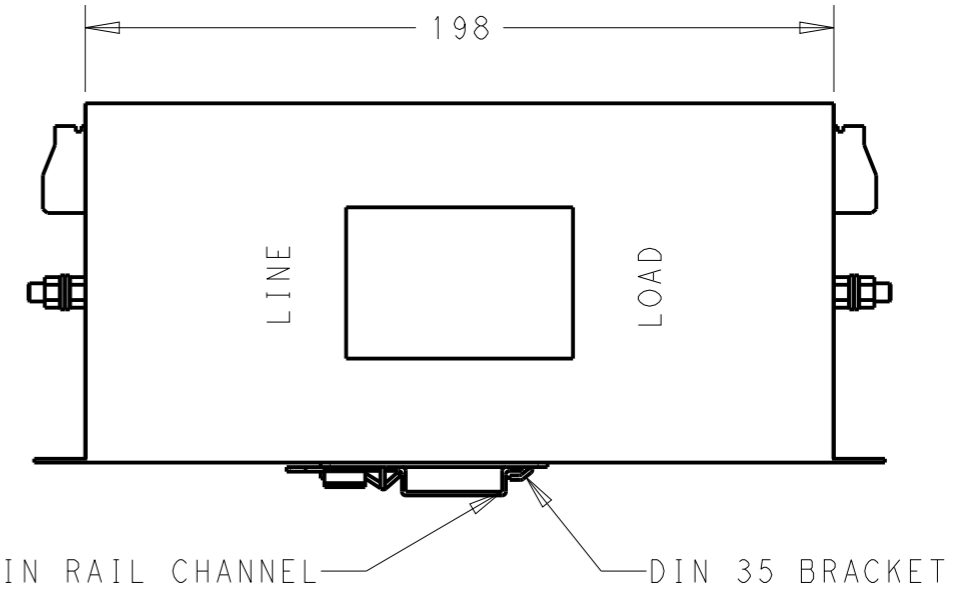
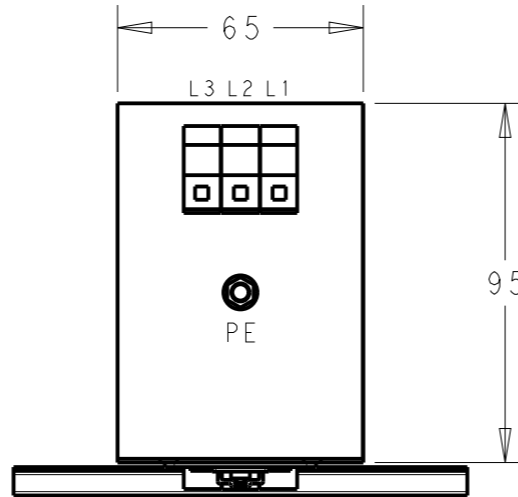
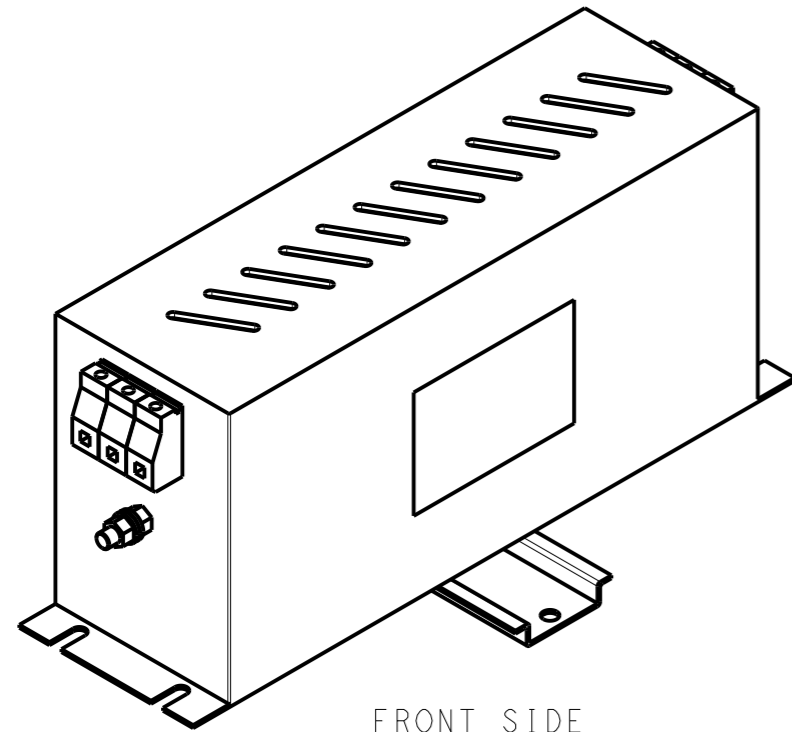
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NOTE 1 GROUND CONNECTION:  
 FOR ELECTRICAL SAFETY AND FILTER PERFORMANCE  
 UNIT MUST HAVE A GOOD GROUND CONNECTION.  
 TORQUE OUTER TERMINAL SCREWS: 0.5Nm / 4.5 in.lbs  
 TORQUE GROUND NUTS: 2Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL  
 AWG SIZE: 26-12 AWG  
 WIRE SECTION: 4mm<sup>2</sup>  
 THREADED BOLT SIZE FOR GROUND: M5

NOTE 3 SUPPLIED WITH DIN RAIL BRACKET.

NOTE 4 DRAWING SHOWS DIN RAIL FOR REFERENCE ONLY.



REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	23APR2021	<b>TE</b> TE Connectivity	NAME POWER LINE FILTER FOR DIN RAIL 35 INSTALLATION 7KEHD10BBSDHM
		CHK	23APR2021		
		APVD	23APR2021		
		PRODUCT SPEC			
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC	
		0 PLC	±0.5	WEIGHT	
		1 PLC	±0.40	SIZE	A300779
		2 PLC	±0.130	CAGE CODE	C-6-1609969-0
		3 PLC	±0.0500	DRAWING NO	
MATERIAL		FINISH		RESTRICTED TO	
				SCALE	1:2
				SHEET	2 OF 2
				REV	A