

SAFETY ORGANIZATIONS

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

UL RECOGNIZED: UL 1283
CSA CERTIFIED: CSA C22.2 No. 8
VDE APPROVED: EN 60939-2

OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 42 AMP 277 VAC LINE TO GROUND
AND 480VAC PHASE TO PHASE

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,
EACH LINE TO GROUND: 8.7 mA @ 277VAC 50 HZ

OPERATING AMBIENT TEMP. RANGE: -10°C TO +50°C @ RATED CURRENT, I_r .

IN AN AMBIENT, T_a , HIGHER THAN 50°C, THE MAXIMUM OPERATING

CURRENT, I_o , IS AS FOLLOWS:
$$I_o = I_r \sqrt{\frac{100 - T_a}{50}}$$

RELIABILITY SPECIFICATIONS:

STORAGE TEMPERATURE: -40°C TO +85°C
HUMIDITY: 21 DAYS @ 50°C 95% RH.
CURRENT OVERLOAD TEST: 6 TIMES I_r FOR
8 SECONDS

TEST SPECIFICATIONS:

INDUCTANCE: 1.60 mH NOMINAL
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
LINE TO GROUND: 0.1 μ F±20%
LINE TO LINE: 4.95 μ F±20%
DISCHARGE RESISTOR: 1.5 / .66 M Ω L/G AND L/L I.R.
NO DISCHARGE RESISTOR: 6000M Ω (MIN.) 100VDC,
20°C AND 50% RH@

RECOMMENDED RECEIVING INSPECTION HIPOT:

LINE TO GROUND: 1850 VDC FOR 1 MINUTE
LINE TO LINE: 1850 VDC FOR 1 MINUTE

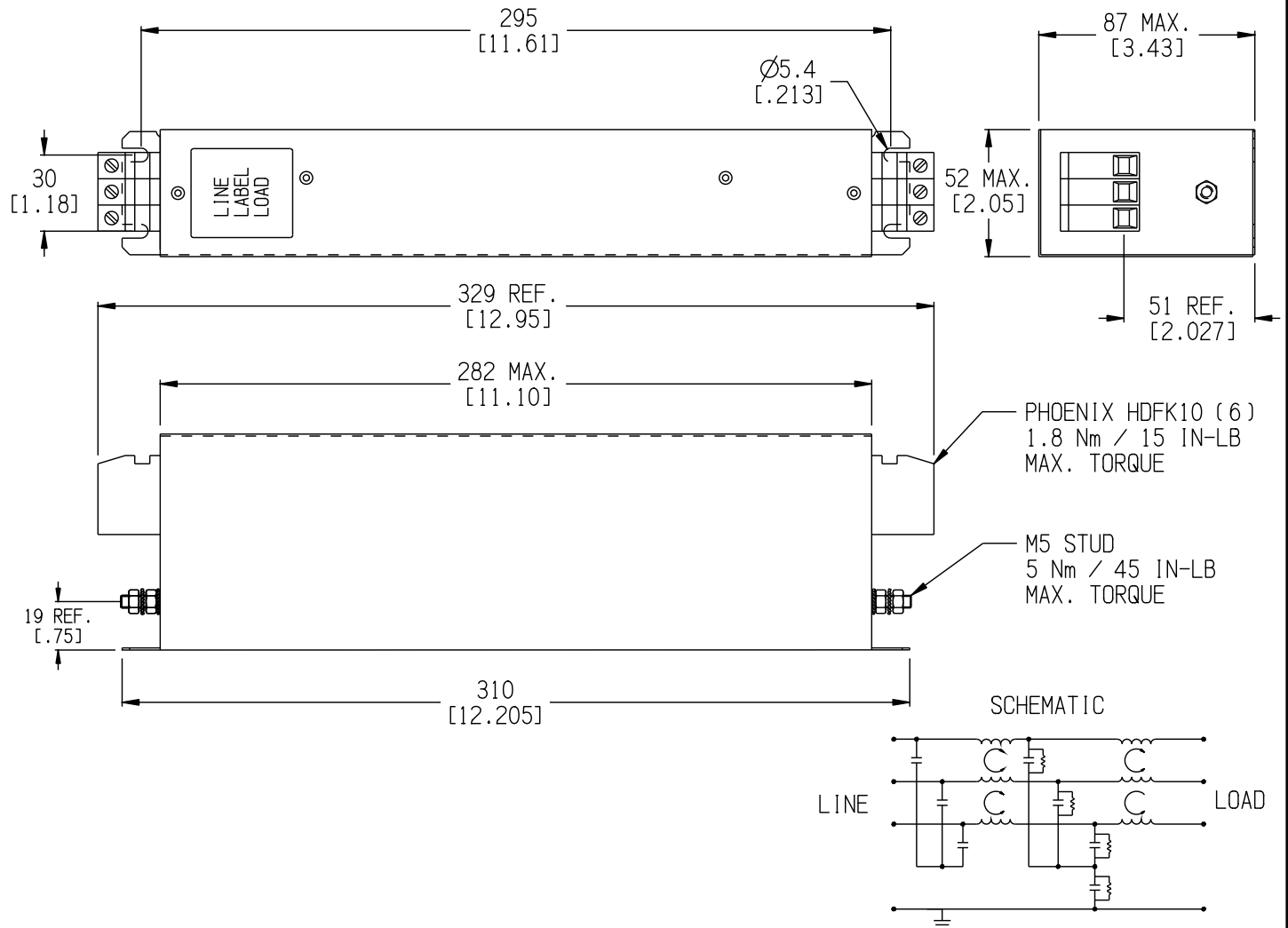
FILTER APPROVAL:

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

CUSTOMER DRAWING

CATALOG # 42BCF10R

ECN#	APPRVD	DATE
15-015324	HS	20AUG15

50 Ω - 50 Ω (TYPICAL) INSERTION LOSS

FREQUENCY MHz	.01	.03	.05	.10	.15	.30	.50	1.0	3.0	5.0	10	30
COMMON dB	7	16	23	36	45	59	62	66	63	51	38	22
DIFF. dB	13	35	36	50	67	88	82	69	59	55	50	40



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PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

UNLESS OTHERWISE SPECIFIED
TOLERANCE TO BE ±0.64 [±0.025]
MATERIAL & FINISH: AS SUPPLIED
DIMENSIONS IN MM [INCHES]

NOTES:

42BCF10R-A.ckd

TE TE Connectivity

CUSTOMER DRAWING

TE PART NO.: 2-1609989-3

SCALE:	DATE:	DRAWING NUMBER:	REV.
NTS	30OCT15	42BCF10R	A

DRW. BY: HS

ORIG: HS

42BCF10R

REV. A