

Current Transformers for Electronic Watt-Hour Meters

DC tolerant

Toroidal Series



- For use in electronic watt-hour meter applications
- DC current immunity
- Comply to Class 1.0 (IEC10636) standards
- 120/240V and 50/60 Hz applications
- DC current capability up to 150 Apk
- AC current up to 480 Apk for defined errors
- Epoxy potted finished

ELECTRICAL SPECIFICATIONS

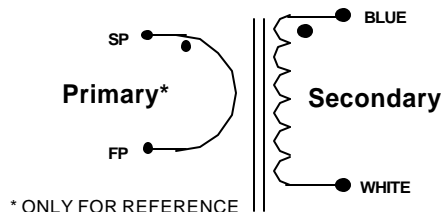
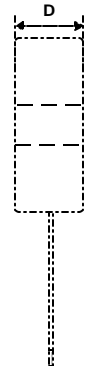
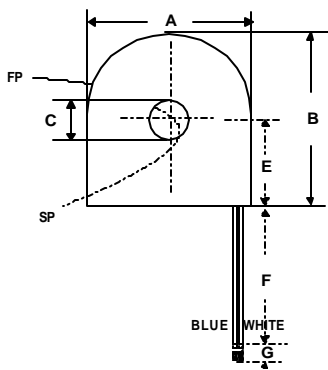
FALCO PART NUMBER	L(H) @ 50Hz	Tol.	Turns Ratio	I _{rms} max (A)	IDC max (A)	I _{pk} rms (A)	F(I) %	φ (I) °	DCR (W) ¹ NOM.	RB (W)
T75A11	4.6	±20%	1:2500	20	20	125	<0.06	3.62	54.0	37.50
T81C15	3.7	±15%	1:2500	40	40	215	<0.04	4.15	66.0	10.00
T87C23	3.0	±15%	1:2500	60	60	245	<0.04	4.06	55.0	12.50
T10G20	2.1	±17%	1:2500	100	100	314	<0.05	4.48	44.0	7.50
T12A04	1.7	±17%	1:2500	120	158	480	<0.03	4.07	36.0	6.25

MECHANICAL SPECIFICATIONS

Front View

Right View

Schematic

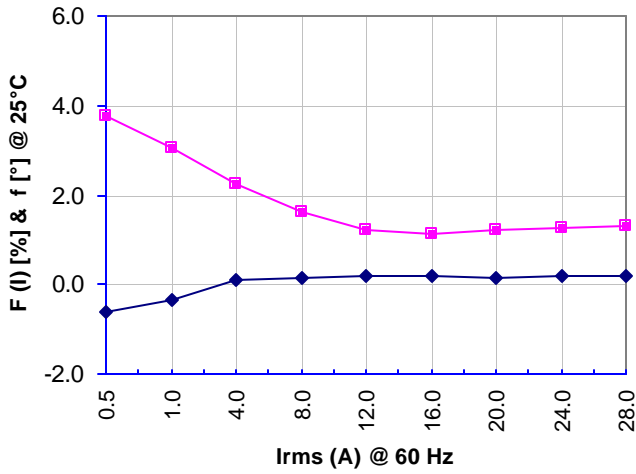


FALCO PART NUMBER	A max. in / mm	B max. in / mm	C min. in / mm	D max. in / mm	E nom. in / mm	F nom. in / mm	G nom. in / mm
T75A11	1.122 / 28.5	1.185 / 30.0	0.197 / 5.0	0.591 / 15.0	0.571 / 14.5	7.08 / 180	0.394 / 10.0
T81C15	1.102 / 28.0	1.122 / 28.5	0.216 / 5.5	0.630 / 16.0	0.561 / 14.25	7.08 / 180	0.394 / 10.0
T87C23	1.200 / 30.5	1.279 / 32.5	0.315 / 8.0	0.590 / 15.0	0.630 / 16.0	7.87 / 200	0.394 / 10.0
T10G20	1.358 / 34.5	1.358 / 34.5	0.413 / 10.5	0.571 / 14.5	0.669 / 17.0	7.87 / 200	0.394 / 10.0
T12A04	1.594 / 40.5	1.614 / 41.0	0.472 / 12.0	0.689 / 17.5	0.846 / 21.5	7.09 / 180	0.394 / 10.0

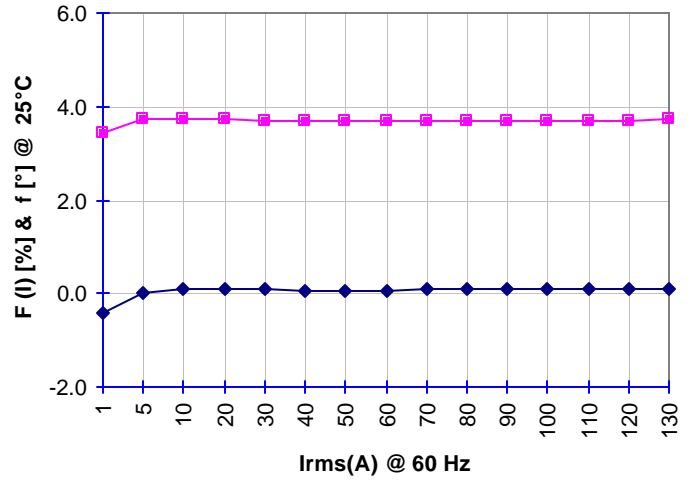
1. L & DCR tested at Ta= 25°C
2. I_{max}= Maximum ac primary current with defined errors
3. IDC_{max}= Maximum half wave rectified AC amplitude without saturation, F(I_{dc})<3%
4. I_{pk}= Maximum achievable AC primary current without saturation for F(I)<1%
5. φ(I)= Maximum phase error for I_{rms}<I_{rms} max. (IEC1036)
6. F(I)= Maximum amplitude error for I_{rms}<I_{rms} max. (IEC1036)
7. R_B= Suggested burden resistor
8. Turns tolerance is ± 1 % typ
9. Operating Temperature Range: -40°C to +85°C

LINEARITY AMPLITUDE & PHASE ANGLE ERROR BIPOLAR

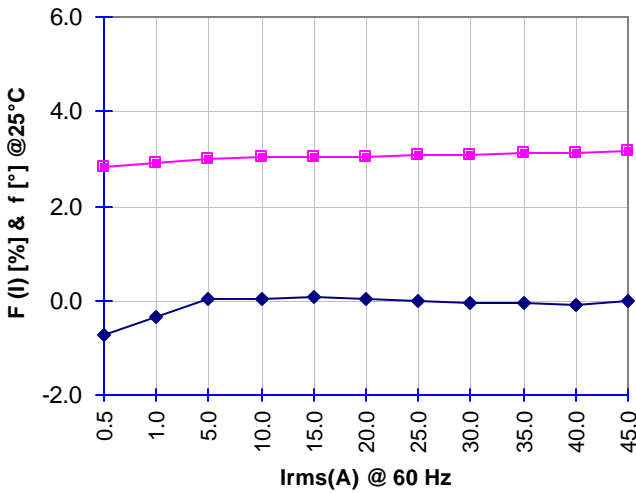
T75A11



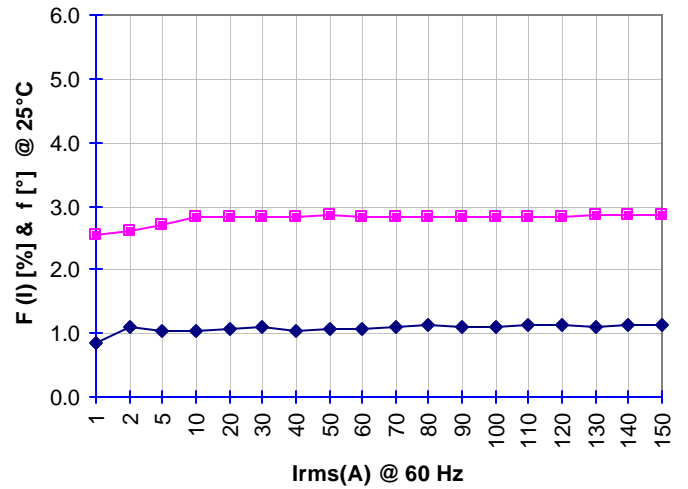
T10G20



T81C15



T12A04



T87C23

