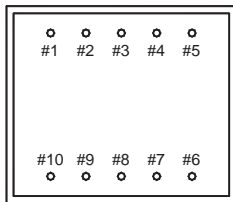
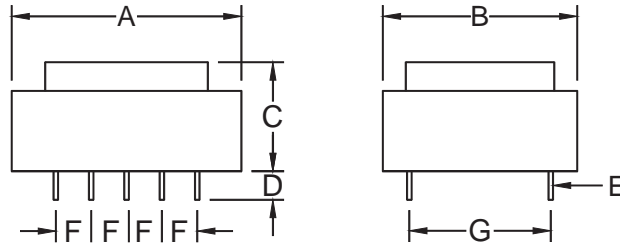


Type EI30 / 5

- Power – 0.6VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Ambient temperature (ta) – 70°C
- Dielectric strength – 3750Vrms
- Potted under vacuum
- Short-circuit-proof
- Agency approvals – C-UL: CSA C22.2 #66; UL: UL506; TUV: EN61558 / EN60950; CE



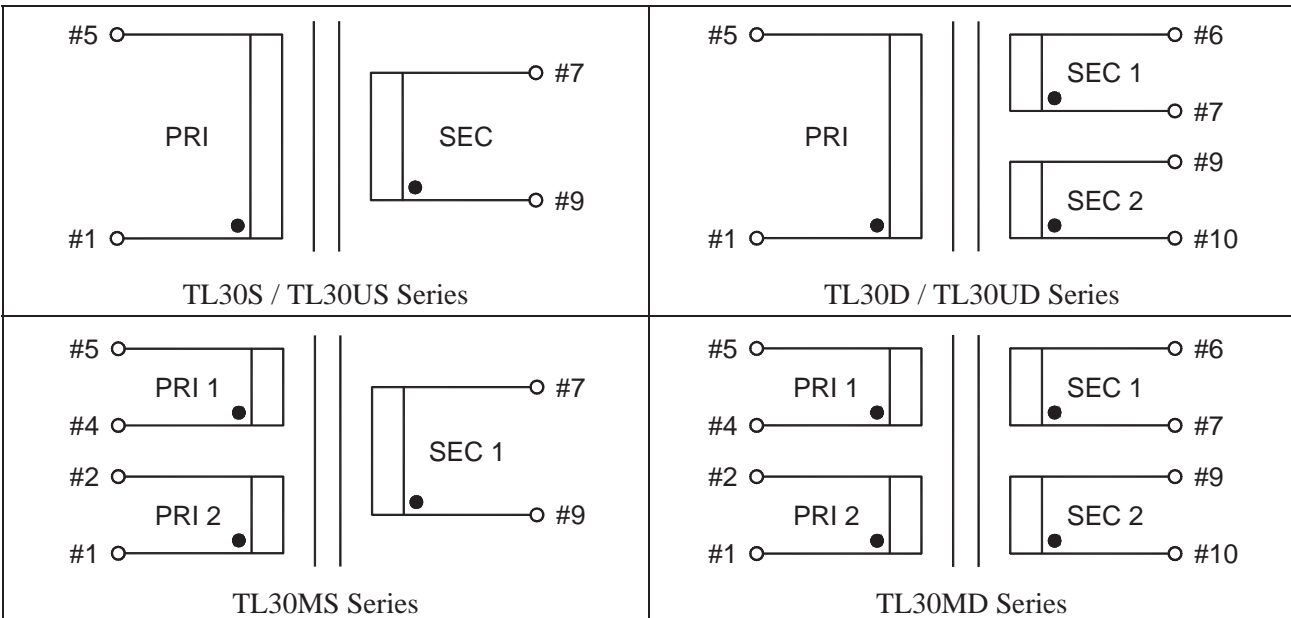
Bottom View



	A	B	C	D	E	F	G	Weight (g)
Dimension (mm)	32.6	27.6	15.2	4.0	SQ0.64	5.0	20.0	40
Tolerance (mm)	±0.5	±0.5	±0.5	±1.0	±0.1	±0.2	±0.5	approx.

Note: unused pins are omitted for standard parts. Unused pins can be provided upon request.

Schematics



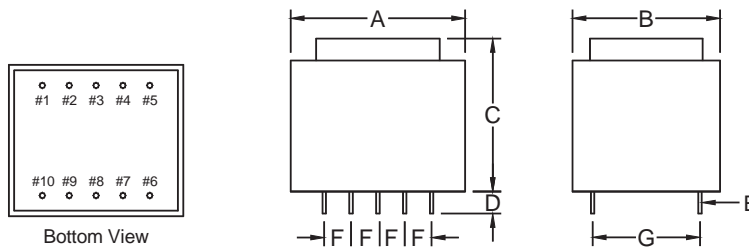
Pins Connection (for dual windings items)	Primary	In Series	Pin 1 – Pin 5 (Pins 2, 4 short)
		In Parallel	Pin 1 – Pin 5 (Pins 1, 4 short; Pins 2, 5 short)
	Secondary	In Series	Pin 7 – Pin 9 (Pins 6, 10 short)
		In Parallel	Pin 7 – Pin 9 (Pins 7, 10 short; Pins 6, 9 short)

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
0.6VA	230	TL30S-060-100	6	100	TL30D-060-050	2 x 6	50	70	TUV CE
		TL30S-072-083	7.2	83	TL30D-072-042	2 x 7.2	42		
		TL30S-090-067	9	67	TL30D-090-033	2 x 9	33		
		TL30S-100-060	10	60	TL30D-100-030	2 x 10	30		
		TL30S-120-050	12	50	TL30D-120-025	2 x 12	25		
		TL30S-150-040	15	40	TL30D-150-020	2 x 15	20		
		TL30S-180-033	18	33	TL30D-180-017	2 x 18	17		
		TL30S-240-025	24	25	TL30D-240-012	2 x 24	12		
	115	TL30US-060-100	6	100	TL30UD-060-050	2 x 6	50	70	UL C-UL
		TL30US-072-083	7.2	83	TL30UD-072-042	2 x 7.2	42		
		TL30US-090-067	9	67	TL30UD-090-033	2 x 9	33		
		TL30US-100-060	10	60	TL30UD-100-030	2 x 10	30		
		TL30US-120-050	12	50	TL30UD-120-025	2 x 12	25		
		TL30US-150-040	15	40	TL30UD-150-020	2 x 15	20		
		TL30US-180-033	18	33	TL30UD-180-017	2 x 18	17		
		TL30US-240-025	24	25	TL30UD-240-012	2 x 24	12		
	2 x 115	TL30MS-060-100	6	100	TL30MD-060-050	2 x 6	50	70	UL C-UL TUV CE
		TL30MS-072-083	7.2	83	TL30MD-072-042	2 x 7.2	42		
		TL30MS-090-067	9	67	TL30MD-090-033	2 x 9	33		
		TL30MS-100-060	10	60	TL30MD-100-030	2 x 10	30		
		TL30MS-120-050	12	50	TL30MD-120-025	2 x 12	25		
		TL30MS-150-040	15	40	TL30MD-150-020	2 x 15	20		
		TL30MS-180-033	18	33	TL30MD-180-017	2 x 18	17		
		TL30MS-240-025	24	25	TL30MD-240-012	2 x 24	12		



Type EI30 / 12.5

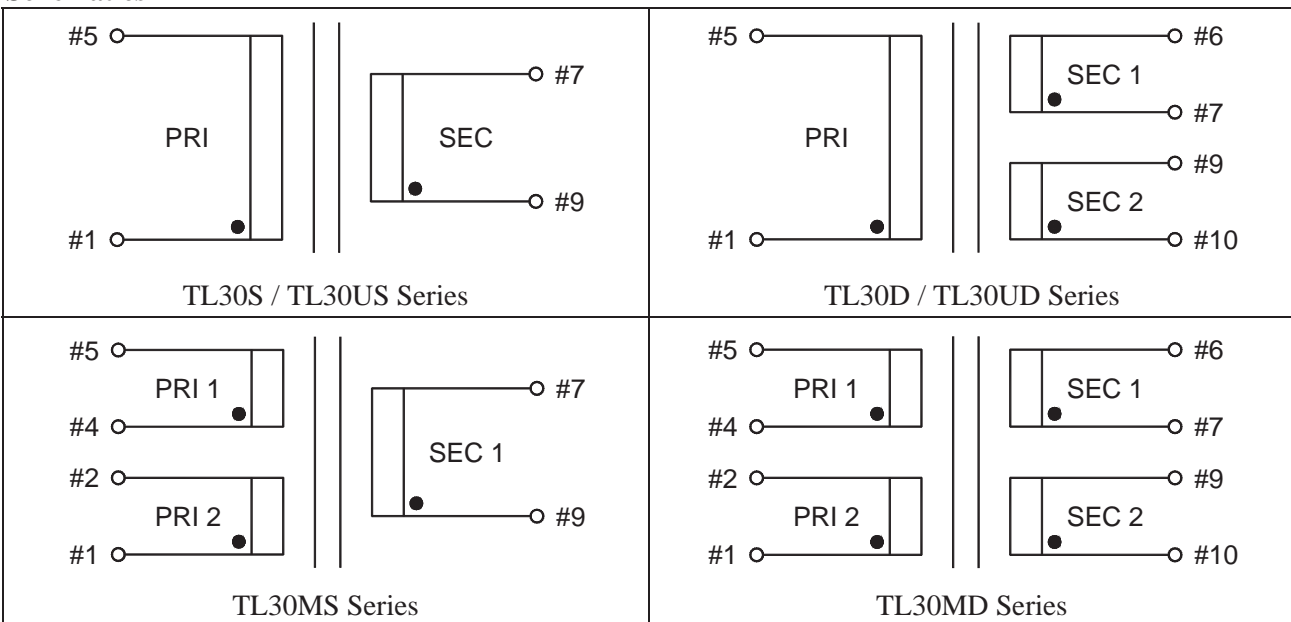
- Power – 1.0/1.2/1.5VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Ambient temperature (ta) – 70°C
- Dielectric strength – 3750Vrms
- Potted under vacuum
- Short-circuit-proof
- Agency approvals – C-UL: CSA C22.2 #66; UL: UL506; TUV: EN61558 / EN60950; CE



	A	B	C (note 2)	D	E	F	G	Weight (g)
Dimension (mm)	32.3	27.3	21.3	4.0	SQ0.64	5.0	20.0	80
Tolerance (mm)	±0.5	±0.5	±0.5	±1.0	±0.1	±0.2	±0.5	approx.

Note: 1) Unused pins are omitted for standard parts. Unused pins can be provided upon request.
2) For the TL30UD & TL30US series, dimension C should be 22.8±0.5mm.

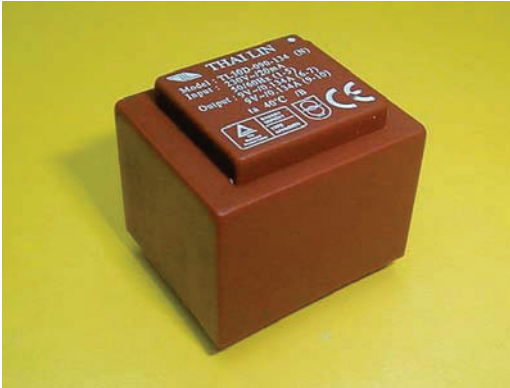
Schematics



Pins Connection (for dual windings items)	Primary	In Series	Pin 1 – Pin 5 (Pins 2, 4 short)
		In Parallel	Pin 1 – Pin 5 (Pins 1, 4 short; Pins 2, 5 short)
	Secondary	In Series	Pin 7 – Pin 9 (Pins 6, 10 short)
		In Parallel	Pin 7 – Pin 9 (Pins 7, 10 short; Pins 6, 9 short)

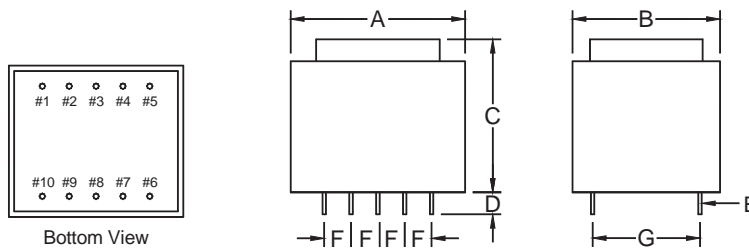
Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
1.0VA	230	TL30S-060-167	6	167	TL30D-060-083	2 x 6	83	70	TUV CE
		TL30S-072-139	7.2	139	TL30D-072-069	2 x 7.2	69		
		TL30S-090-111	9	111	TL30D-090-056	2 x 9	56		
		TL30S-100-100	10	100	TL30D-100-050	2 x 10	50		
		TL30S-120-083	12	83	TL30D-120-042	2 x 12	42		
		TL30S-150-067	15	67	TL30D-150-033	2 x 15	33		
		TL30S-180-056	18	56	TL30D-180-028	2 x 18	28		
		TL30S-240-042	24	42	TL30D-240-021	2 x 24	21		
	115	TL30US-060-167	6	167	TL30UD-060-083	2 x 6	83	70	UL C-UL
		TL30US-072-139	7.2	139	TL30UD-072-069	2 x 7.2	69		
		TL30US-090-111	9	111	TL30UD-090-056	2 x 9	56		
		TL30US-100-100	10	100	TL30UD-100-050	2 x 10	50		
		TL30US-120-083	12	83	TL30UD-120-042	2 x 12	42		
		TL30US-150-067	15	67	TL30UD-150-033	2 x 15	33		
		TL30US-180-056	18	56	TL30UD-180-028	2 x 18	28		
		TL30US-240-042	24	42	TL30UD-240-021	2 x 24	21		
	2x115	TL30MS-060-167	6	167	TL30MD-060-083	2 x 6	83	70	UL C-UL TUV CE
		TL30MS-072-139	7.2	139	TL30MD-072-069	2 x 7.2	69		
		TL30MS-090-111	9	111	TL30MD-090-056	2 x 9	56		
		TL30MS-100-100	10	100	TL30MD-100-050	2 x 10	50		
		TL30MS-120-083	12	83	TL30MD-120-042	2 x 12	42		
		TL30MS-150-067	15	67	TL30MD-150-033	2 x 15	33		
		TL30MS-180-056	18	56	TL30MD-180-028	2 x 18	28		
		TL30MS-240-042	24	42	TL30MD-240-021	2 x 24	21		
1.2VA	230	TL30S-060-200	6	200	TL30D-060-100	2 x 6	100	70	TUV CE
		TL30S-072-167	7.2	167	TL30D-072-083	2 x 7.2	83		
		TL30S-090-133	9	133	TL30D-090-067	2 x 9	67		
		TL30S-100-120	10	120	TL30D-100-060	2 x 10	60		
		TL30S-120-100	12	100	TL30D-120-050	2 x 12	50		
		TL30S-150-080	15	80	TL30D-150-040	2 x 15	40		
		TL30S-180-067	18	67	TL30D-180-033	2 x 18	33		
		TL30S-240-050	24	50	TL30D-240-025	2 x 24	25		
	115	TL30US-060-200	6	200	TL30UD-060-100	2 x 6	100	70	UL C-UL
		TL30US-072-167	7.2	167	TL30UD-072-083	2 x 7.2	83		
		TL30US-090-133	9	133	TL30UD-090-067	2 x 9	67		
		TL30US-100-120	10	120	TL30UD-100-060	2 x 10	60		
		TL30US-120-100	12	100	TL30UD-120-050	2 x 12	50		
		TL30US-150-080	15	80	TL30UD-150-040	2 x 15	40		
		TL30US-180-067	18	67	TL30UD-180-033	2 x 18	33		
		TL30US-240-050	24	50	TL30UD-240-025	2 x 24	25		
	2x115	TL30MS-060-200	6	200	TL30MD-060-100	2 x 6	100	70	UL C-UL TUV CE
		TL30MS-072-167	7.2	167	TL30MD-072-083	2 x 7.2	83		
		TL30MS-090-133	9	133	TL30MD-090-067	2 x 9	67		
		TL30MS-100-120	10	120	TL30MD-100-060	2 x 10	60		
		TL30MS-120-100	12	100	TL30MD-120-050	2 x 12	50		
		TL30MS-150-080	15	80	TL30MD-150-040	2 x 15	40		
		TL30MS-180-067	18	67	TL30MD-180-033	2 x 18	33		
		TL30MS-240-050	24	50	TL30MD-240-025	2 x 24	25		

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
1.5VA	230	TL30S-060-250	6	250	TL30D-060-125	2 x 6	125	70	TUV CE
		TL30S-072-208	7.2	208	TL30D-072-104	2 x 7.2	104		
		TL30S-090-167	9	167	TL30D-090-083	2 x 9	83		
		TL30S-100-150	10	150	TL30D-100-075	2 x 10	75		
		TL30S-120-125	12	125	TL30D-120-062	2 x 12	62		
		TL30S-150-100	15	100	TL30D-150-050	2 x 15	50		
		TL30S-180-083	18	83	TL30D-180-042	2 x 18	42		
		TL30S-240-062	24	62	TL30D-240-031	2 x 24	31		
	115	TL30US-060-250	6	250	TL30UD-060-125	2 x 6	125	70	UL C-UL
		TL30US-072-208	7.2	208	TL30UD-072-104	2 x 7.2	104		
		TL30US-090-167	9	167	TL30UD-090-083	2 x 9	83		
		TL30US-100-150	10	150	TL30UD-100-075	2 x 10	75		
		TL30US-120-125	12	125	TL30UD-120-062	2 x 12	62		
		TL30US-150-100	15	100	TL30UD-150-050	2 x 15	50		
		TL30US-180-083	18	83	TL30UD-180-042	2 x 18	42		
		TL30US-240-062	24	62	TL30UD-240-031	2 x 24	31		
	2x115	TL30MS-060-250	6	250	TL30MD-060-125	2 x 6	125	70	UL C-UL TUV CE
		TL30MS-072-208	7.2	208	TL30MD-072-104	2 x 7.2	104		
		TL30MS-090-167	9	167	TL30MD-090-083	2 x 9	83		
		TL30MS-100-150	10	150	TL30MD-100-075	2 x 10	75		
		TL30MS-120-125	12	125	TL30MD-120-062	2 x 12	62		
		TL30MS-150-100	15	100	TL30MD-150-050	2 x 15	50		
		TL30MS-180-083	18	83	TL30MD-180-042	2 x 18	42		
		TL30MS-240-062	24	62	TL30MD-240-031	2 x 24	31		



Type EI30 / 15.5

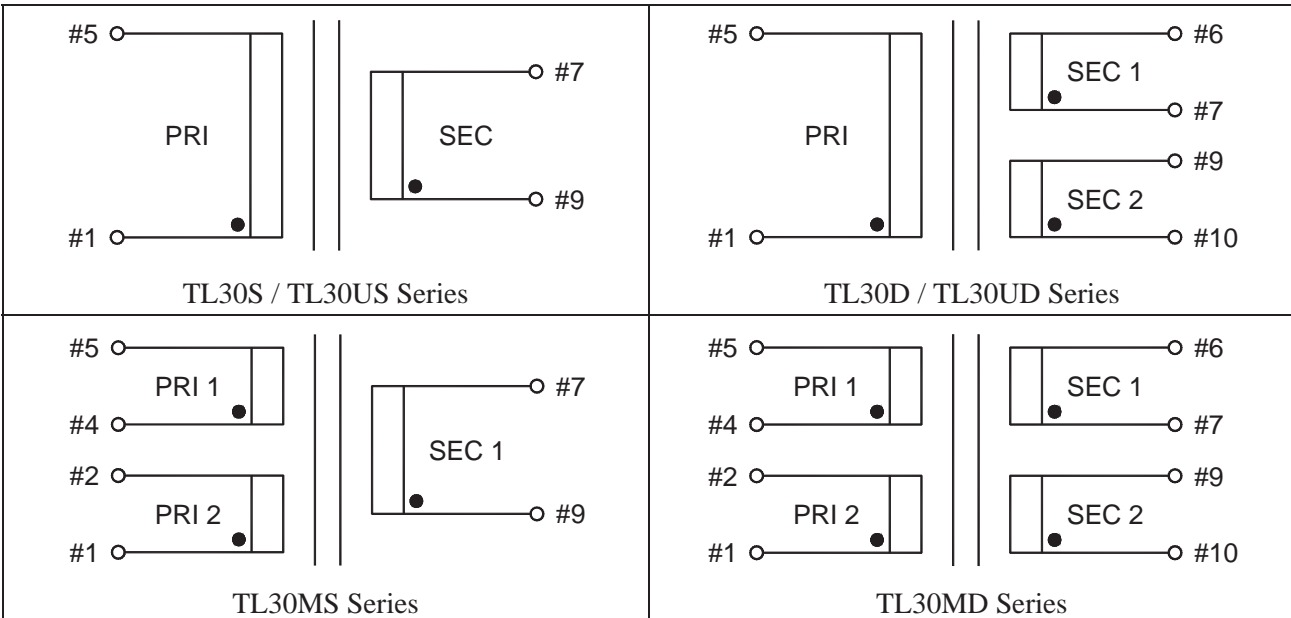
- Power – 1.8/2.1/2.4/2.6VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Ambient temperature (ta) – 40°C or 70°C
- Dielectric strength – 3750Vrms
- Potted under vacuum
- Short-circuit-proof
- Agency approvals – C-UL: CSA C22.2 #66; UL: UL506; TUV: EN61558 / EN60950; CE



	A	B	C	D	E	F	G	Weight (g)
Dimension (mm)	32.6	27.6	27.8	4.0	SQ0.64	5.0	20.0	100
Tolerance (mm)	±0.5	±0.5	±0.5	±1.0	±0.1	±0.2	±0.5	approx.

Note: unused pins are omitted for standard parts. Unused pins can be provided upon request.

Schematics



Pins Connection (for dual windings items)	Primary	In Series	Pin 1 – Pin 5 (Pins 2, 4 short)
		In Parallel	Pin 1 – Pin 5 (Pins 1, 4 short; Pins 2, 5 short)
	Secondary	In Series	Pin 7 – Pin 9 (Pins 6, 10 short)
		In Parallel	Pin 7 – Pin 9 (Pins 7, 10 short; Pins 6, 9 short)

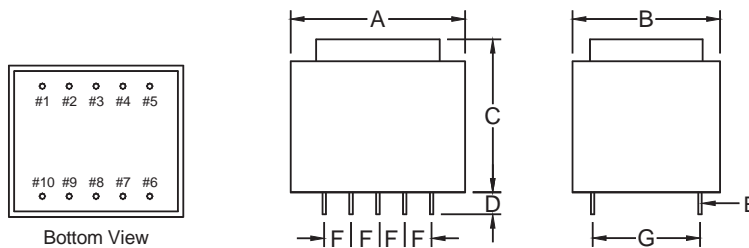
Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
1.8VA	230	TL30S-060-300	6	300	TL30D-060-150	2 x 6	150	70	TUV CE
		TL30S-072-250	7.2	250	TL30D-072-125	2 x 7.2	125		
		TL30S-090-200	9	200	TL30D-090-100	2 x 9	100		
		TL30S-100-180	10	180	TL30D-100-090	2 x 10	90		
		TL30S-120-150	12	150	TL30D-120-075	2 x 12	75		
		TL30S-150-120	15	120	TL30D-150-060	2 x 15	60		
		TL30S-180-100	18	100	TL30D-180-050	2 x 18	50		
		TL30S-240-076	24	76	TL30D-240-038	2 x 24	38		
	115	TL30US-060-300	6	300	TL30UD-060-150	2 x 6	150	70	UL C-UL
		TL30US-072-250	7.2	250	TL30UD-072-125	2 x 7.2	125		
		TL30US-090-200	9	200	TL30UD-090-100	2 x 9	100		
		TL30US-100-180	10	180	TL30UD-100-090	2 x 10	90		
		TL30US-120-150	12	150	TL30UD-120-075	2 x 12	75		
		TL30US-150-120	15	120	TL30UD-150-060	2 x 15	60		
		TL30US-180-100	18	100	TL30UD-180-050	2 x 18	50		
		TL30US-240-076	24	76	TL30UD-240-038	2 x 24	38		
	2x115	TL30MS-060-300	6	300	TL30MD-060-150	2 x 6	150	70	UL C-UL TUV CE
		TL30MS-072-250	7.2	250	TL30MD-072-125	2 x 7.2	125		
		TL30MS-090-200	9	200	TL30MD-090-100	2 x 9	100		
		TL30MS-100-180	10	180	TL30MD-100-090	2 x 10	90		
		TL30MS-120-150	12	150	TL30MD-120-075	2 x 12	75		
		TL30MS-150-120	15	120	TL30MD-150-060	2 x 15	60		
		TL30MS-180-100	18	100	TL30MD-180-050	2 x 18	50		
		TL30MS-240-076	24	76	TL30MD-240-038	2 x 24	38		
2.1VA	230	TL30S-060-350	6	350	TL30D-060-175	2 x 6	175	70	TUV CE
		TL30S-072-292	7.2	292	TL30D-072-146	2 x 7.2	146		
		TL30S-090-234	9	234	TL30D-090-117	2 x 9	117		
		TL30S-100-210	10	210	TL30D-100-105	2 x 10	105		
		TL30S-120-176	12	176	TL30D-120-088	2 x 12	88		
		TL30S-150-140	15	140	TL30D-150-070	2 x 15	70		
		TL30S-180-118	18	118	TL30D-180-059	2 x 18	59		
		TL30S-240-088	24	88	TL30D-240-044	2 x 24	44		
	115	TL30US-060-350	6	350	TL30UD-060-175	2 x 6	175	70	UL C-UL
		TL30US-072-292	7.2	292	TL30UD-072-146	2 x 7.2	146		
		TL30US-090-234	9	234	TL30UD-090-117	2 x 9	117		
		TL30US-100-210	10	210	TL30UD-100-105	2 x 10	105		
		TL30US-120-176	12	176	TL30UD-120-088	2 x 12	88		
		TL30US-150-140	15	140	TL30UD-150-070	2 x 15	70		
		TL30US-180-118	18	118	TL30UD-180-059	2 x 18	59		
		TL30US-240-088	24	88	TL30UD-240-044	2 x 24	44		
	2x115	TL30MS-060-350	6	350	TL30MD-060-175	2 x 6	175	70	UL C-UL TUV CE
		TL30MS-072-292	7.2	292	TL30MD-072-146	2 x 7.2	146		
		TL30MS-090-234	9	234	TL30MD-090-117	2 x 9	117		
		TL30MS-100-210	10	210	TL30MD-100-105	2 x 10	105		
		TL30MS-120-176	12	176	TL30MD-120-088	2 x 12	88		
		TL30MS-150-140	15	140	TL30MD-150-070	2 x 15	70		
		TL30MS-180-118	18	118	TL30MD-180-059	2 x 18	59		
		TL30MS-240-088	24	88	TL30MD-240-044	2 x 24	44		

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
2.4VA	230	TL30S-060-400	6	400	TL30D-060-200	2 x 6	200	40	TUV CE
		TL30S-072-334	7.2	334	TL30D-072-167	2 x 7.2	167		
		TL30S-090-268	9	268	TL30D-090-134	2 x 9	134		
		TL30S-100-240	10	240	TL30D-100-120	2 x 10	120		
		TL30S-120-200	12	200	TL30D-120-100	2 x 12	100		
		TL30S-150-160	15	160	TL30D-150-080	2 x 15	80		
		TL30S-180-134	18	134	TL30D-180-067	2 x 18	67		
		TL30S-240-100	24	100	TL30D-240-050	2 x 24	50		
	115	TL30US-060-400	6	400	TL30UD-060-200	2 x 6	200	40	UL C-UL
		TL30US-072-334	7.2	334	TL30UD-072-167	2 x 7.2	167		
		TL30US-090-268	9	268	TL30UD-090-134	2 x 9	134		
		TL30US-100-240	10	240	TL30UD-100-120	2 x 10	120		
		TL30US-120-200	12	200	TL30UD-120-100	2 x 12	100		
		TL30US-150-160	15	160	TL30UD-150-080	2 x 15	80		
		TL30US-180-134	18	134	TL30UD-180-067	2 x 18	67		
		TL30US-240-100	24	100	TL30UD-240-050	2 x 24	50		
	2x115	TL30MS-060-400	6	400	TL30MD-060-200	2 x 6	200	40	UL C-UL TUV CE
		TL30MS-072-334	7.2	334	TL30MD-072-167	2 x 7.2	167		
		TL30MS-090-268	9	268	TL30MD-090-134	2 x 9	134		
		TL30MS-100-240	10	240	TL30MD-100-120	2 x 10	120		
		TL30MS-120-200	12	200	TL30MD-120-100	2 x 12	100		
		TL30MS-150-160	15	160	TL30MD-150-080	2 x 15	80		
		TL30MS-180-134	18	134	TL30MD-180-067	2 x 18	67		
		TL30MS-240-100	24	100	TL30MD-240-050	2 x 24	50		
2.6VA	230	TL30S-060-433	6	433	TL30D-060-216	2 x 6	216	40	TUV CE
		TL30S-072-361	7.2	361	TL30D-072-180	2 x 7.2	180		
		TL30S-090-289	9	289	TL30D-090-144	2 x 9	144		
		TL30S-100-260	10	260	TL30D-100-130	2 x 10	130		
		TL30S-120-216	12	216	TL30D-120-108	2 x 12	108		
		TL30S-150-173	15	173	TL30D-150-086	2 x 15	86		
		TL30S-180-144	18	144	TL30D-180-072	2 x 18	72		
		TL30S-240-108	24	108	TL30D-240-054	2 x 24	54		
	115	TL30US-060-433	6	433	TL30UD-060-216	2 x 6	216	40	UL C-UL
		TL30US-072-361	7.2	361	TL30UD-072-180	2 x 7.2	180		
		TL30US-090-289	9	289	TL30UD-090-144	2 x 9	144		
		TL30US-100-260	10	260	TL30UD-100-130	2 x 10	130		
		TL30US-120-216	12	216	TL30UD-120-108	2 x 12	108		
		TL30US-150-173	15	173	TL30UD-150-086	2 x 15	86		
		TL30US-180-144	18	144	TL30UD-180-072	2 x 18	72		
		TL30US-240-108	24	108	TL30UD-240-054	2 x 24	54		
	2x115	TL30MS-060-433	6	433	TL30MD-060-216	2 x 6	216	40	UL C-UL TUV CE
		TL30MS-072-361	7.2	361	TL30MD-072-180	2 x 7.2	180		
		TL30MS-090-289	9	289	TL30MD-090-144	2 x 9	144		
		TL30MS-100-260	10	260	TL30MD-100-130	2 x 10	130		
		TL30MS-120-216	12	216	TL30MD-120-108	2 x 12	108		
		TL30MS-150-173	15	173	TL30MD-150-086	2 x 15	86		
		TL30MS-180-144	18	144	TL30MD-180-072	2 x 18	72		
		TL30MS-240-108	24	108	TL30MD-240-054	2 x 24	54		



Type EI30 / 18.0

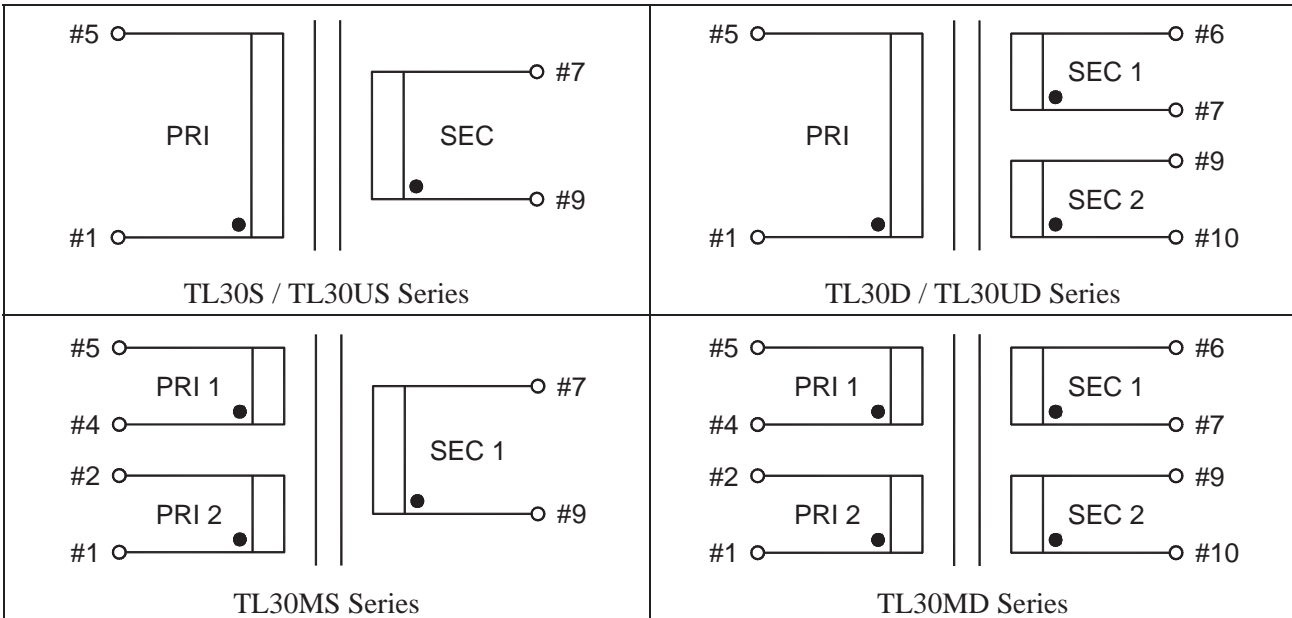
- Power – 2.3/2.7/2.8VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Ambient temperature (ta) – 40°C or 70°C
- Dielectric strength – 3750Vrms
- Potted under vacuum
- Short-circuit-proof
- Agency approvals – C-UL: CSA C22.2 #66; UL: UL506; TUV: EN61558 / EN60950; CE



	A	B	C	D	E	F	G	Weight (g)
Dimension (mm)	32.6	27.6	29.8	4.0	SQ0.64	5.0	20.0	110
Tolerance (mm)	±0.5	±0.5	±0.5	±1.0	±0.1	±0.2	±0.5	approx.

Note: unused pins are omitted for standard parts. Unused pins can be provided upon request.

Schematics



Pins Connection (for dual windings items)	Primary	In Series	Pin 1 – Pin 5 (Pins 2, 4 short)
		In Parallel	Pin 1 – Pin 5 (Pins 1, 4 short; Pins 2, 5 short)
	Secondary	In Series	Pin 7 – Pin 9 (Pins 6, 10 short)
		In Parallel	Pin 7 – Pin 9 (Pins 7, 10 short; Pins 6, 9 short)

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
2.3VA	230	TL30S-060-383	6	383	TL30D-060-191	2 x 6	191	70	TUV CE
		TL30S-072-319	7.2	319	TL30D-072-160	2 x 7.2	160		
		TL30S-090-255	9	255	TL30D-090-128	2 x 9	128		
		TL30S-100-230	10	230	TL30D-100-115	2 x 10	115		
		TL30S-120-192	12	192	TL30D-120-096	2 x 12	96		
		TL30S-150-153	15	153	TL30D-150-076	2 x 15	76		
		TL30S-180-128	18	128	TL30D-180-064	2 x 18	64		
		TL30S-240-096	24	96	TL30D-240-048	2 x 24	48		
	115	TL30US-060-383	6	383	TL30UD-060-191	2 x 6	191	70	UL C-UL
		TL30US-072-319	7.2	319	TL30UD-072-159	2 x 7.2	159		
		TL30US-090-255	9	255	TL30UD-090-127	2 x 9	127		
		TL30US-100-230	10	230	TL30UD-100-115	2 x 10	115		
		TL30US-120-191	12	191	TL30UD-120-095	2 x 12	95		
		TL30US-150-153	15	153	TL30UD-150-076	2 x 15	76		
		TL30US-180-127	18	127	TL30UD-180-063	2 x 18	63		
		TL30US-240-096	24	96	TL30UD-240-048	2 x 24	48		
	2x115	TL30MS-060-383	6	383	TL30MD-060-191	2 x 6	191	70	UL C-UL TUV CE
		TL30MS-072-319	7.2	319	TL30MD-072-160	2 x 7.2	160		
		TL30MS-090-255	9	255	TL30MD-090-128	2 x 9	128		
		TL30MS-100-230	10	230	TL30MD-100-115	2 x 10	115		
		TL30MS-120-192	12	192	TL30MD-120-096	2 x 12	96		
		TL30MS-150-153	15	153	TL30MD-150-076	2 x 15	76		
		TL30MS-180-128	18	128	TL30MD-180-064	2 x 18	64		
		TL30MS-240-096	24	96	TL30MD-240-048	2 x 24	48		
2.7VA	230	TL30S-060-450	6	450	TL30D-060-225	2 x 6	225	40	TUV CE
		TL30S-072-375	7.2	375	TL30D-072-187	2 x 7.2	187		
		TL30S-090-300	9	300	TL30D-090-150	2 x 9	150		
		TL30S-100-270	10	270	TL30D-100-135	2 x 10	135		
		TL30S-120-225	12	225	TL30D-120-112	2 x 12	112		
		TL30S-150-180	15	180	TL30D-150-090	2 x 15	90		
		TL30S-180-150	18	150	TL30D-180-075	2 x 18	75		
		TL30S-240-112	24	112	TL30D-240-056	2 x 24	56		
	115	TL30US-060-450	6	450	TL30UD-060-225	2 x 6	225	40	UL C-UL
		TL30US-072-375	7.2	375	TL30UD-072-187	2 x 7.2	187		
		TL30US-090-300	9	300	TL30UD-090-150	2 x 9	150		
		TL30US-100-270	10	270	TL30UD-100-135	2 x 10	135		
		TL30US-120-225	12	225	TL30UD-120-112	2 x 12	112		
		TL30US-150-180	15	180	TL30UD-150-090	2 x 15	90		
		TL30US-180-150	18	150	TL30UD-180-075	2 x 18	75		
		TL30US-240-112	24	112	TL30UD-240-056	2 x 24	56		
	2x115	TL30MS-060-450	6	450	TL30MD-060-225	2 x 6	225	40	UL C-UL TUV CE
		TL30MS-072-375	7.2	375	TL30MD-072-187	2 x 7.2	187		
		TL30MS-090-300	9	300	TL30MD-090-150	2 x 9	150		
		TL30MS-100-270	10	270	TL30MD-100-135	2 x 10	135		
		TL30MS-120-225	12	225	TL30MD-120-112	2 x 12	112		
		TL30MS-150-180	15	180	TL30MD-150-090	2 x 15	90		
		TL30MS-180-150	18	150	TL30MD-180-075	2 x 18	75		
		TL30MS-240-112	24	112	TL30MD-240-056	2 x 24	56		

THAI LIN RADIO

since 1975

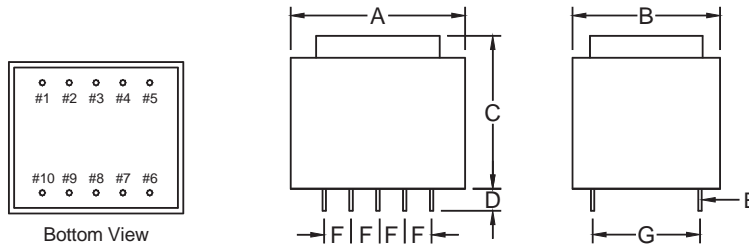
STANDARD
ENCAPSULATED
TRANSFORMER
TYPE EI30 / 18.0

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
2.8VA	230	TL30S-060-466	6	466	TL30D-060-233	2 x 6	233	40	TUV CE
		TL30S-072-388	7.2	388	TL30D-072-194	2 x 7.2	194		
		TL30S-090-311	9	311	TL30D-090-155	2 x 9	155		
		TL30S-100-280	10	280	TL30D-100-140	2 x 10	140		
		TL30S-120-233	12	233	TL30D-120-116	2 x 12	116		
		TL30S-150-186	15	186	TL30D-150-093	2 x 15	93		
		TL30S-180-155	18	155	TL30D-180-077	2 x 18	77		
		TL30S-240-116	24	116	TL30D-240-058	2 x 24	58		
	115	TL30US-060-466	6	466	TL30UD-060-233	2 x 6	233	40	UL C-UL
		TL30US-072-388	7.2	388	TL30UD-072-194	2 x 7.2	194		
		TL30US-090-311	9	311	TL30UD-090-155	2 x 9	155		
		TL30US-100-280	10	280	TL30UD-100-140	2 x 10	140		
		TL30US-120-233	12	233	TL30UD-120-116	2 x 12	116		
		TL30US-150-186	15	186	TL30UD-150-093	2 x 15	93		
		TL30US-180-155	18	155	TL30UD-180-077	2 x 18	77		
		TL30US-240-116	24	116	TL30UD-240-058	2 x 24	58		
	2x115	TL30MS-060-466	6	466	TL30MD-060-233	2 x 6	233	40	UL C-UL TUV CE
		TL30MS-072-388	7.2	388	TL30MD-072-194	2 x 7.2	194		
		TL30MS-090-311	9	311	TL30MD-090-155	2 x 9	155		
		TL30MS-100-280	10	280	TL30MD-100-140	2 x 10	140		
		TL30MS-120-233	12	233	TL30MD-120-116	2 x 12	116		
		TL30MS-150-186	15	186	TL30MD-150-093	2 x 15	93		
		TL30MS-180-155	18	155	TL30MD-180-077	2 x 18	77		
		TL30MS-240-116	24	116	TL30MD-240-058	2 x 24	58		



Type EI30 / 23.0

- Power – 2.7/2.8/2.9/3.0/3.2VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Dielectric strength – 3750Vrms
- Potted under vacuum
- Short-circuit-proof
- Agency approvals – C-UL: CSA C22.2 #66; UL: UL506; TUV: EN61558 / EN60950; CE



	A	B	C	D	E	F	G	Weight (g)
Dimension (mm)	32.6	27.6	34.3	4.0	SQ0.64	5.0	20.0	130
Tolerance (mm)	±0.5	±0.5	±0.5	±1.0	±0.1	±0.2	±0.5	approx.

Note: unused pins are omitted for standard parts. Unused pins can be provided upon request.

Schematics

	TL30S / TL30US Series		TL30D / TL30UD Series		
	TL30MS Series		TL30MD Series		
	Pins Connection (for dual windings items)	Primary	In Series	Pin 1 – Pin 5 (Pins 2, 4 short)	
		Secondary	In Parallel	Pin 1 – Pin 5 (Pins 1, 4 short; Pins 2, 5 short)	
	Primary	In Series	Pin 7 – Pin 9 (Pins 6, 10 short)		
	Secondary	In Parallel	Pin 7 – Pin 9 (Pins 7, 10 short; Pins 6, 9 short)		

Series	Primary	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
2.7VA	230	TL30S-060-450T	6	450	TL30D-060-225T	2 x 6	225	70	TUV CE
		TL30S-072-375T	7.2	375	TL30D-072-187T	2 x 7.2	187		
		TL30S-090-300T	9	300	TL30D-090-150T	2 x 9	150		
		TL30S-100-270T	10	270	TL30D-100-135T	2 x 10	135		
		TL30S-120-225T	12	225	TL30D-120-112T	2 x 12	112		
		TL30S-150-180T	15	180	TL30D-150-090T	2 x 15	90		
		TL30S-180-150T	18	150	TL30D-180-075T	2 x 18	75		
		TL30S-240-112T	24	112	TL30D-240-056T	2 x 24	56		
	115	TL30US-060-450T	6	450	TL30UD-060-225T	2 x 6	225	70	UL C-UL
		TL30US-072-375T	7.2	375	TL30UD-072-187T	2 x 7.2	187		
		TL30US-090-300T	9	300	TL30UD-090-150T	2 x 9	150		
		TL30US-100-270T	10	270	TL30UD-100-135T	2 x 10	135		
		TL30US-120-225T	12	225	TL30UD-120-112T	2 x 12	112		
		TL30US-150-180T	15	180	TL30UD-150-090T	2 x 15	90		
		TL30US-180-150T	18	150	TL30UD-180-075T	2 x 18	75		
		TL30US-240-112T	24	112	TL30UD-240-056T	2 x 24	56		
	2x115	TL30MS-060-450T	6	450	TL30MD-060-225T	2 x 6	225	70	UL C-UL TUV CE
		TL30MS-072-375T	7.2	375	TL30MD-072-187T	2 x 7.2	187		
		TL30MS-090-300T	9	300	TL30MD-090-150T	2 x 9	150		
		TL30MS-100-270T	10	270	TL30MD-100-135T	2 x 10	135		
		TL30MS-120-225T	12	225	TL30MD-120-112T	2 x 12	112		
		TL30MS-150-180T	15	180	TL30MD-150-090T	2 x 15	90		
		TL30MS-180-150T	18	150	TL30MD-180-075T	2 x 18	75		
		TL30MS-240-112T	24	112	TL30MD-240-056T	2 x 24	56		
2.8VA	230	TL30S-060-466T	6	466	TL30D-060-233T	2 x 6	233	70	TUV CE
		TL30S-072-388T	7.2	388	TL30D-072-194T	2 x 7.2	194		
		TL30S-090-311T	9	311	TL30D-090-155T	2 x 9	155		
		TL30S-100-280T	10	280	TL30D-100-140T	2 x 10	140		
		TL30S-120-233T	12	233	TL30D-120-116T	2 x 12	116		
		TL30S-150-186T	15	186	TL30D-150-093T	2 x 15	93		
		TL30S-180-155T	18	155	TL30D-180-077T	2 x 18	77		
		TL30S-240-116T	24	116	TL30D-240-058T	2 x 24	58		
	115	TL30US-060-466T	6	466	TL30UD-060-233T	2 x 6	233	70	UL C-UL
		TL30US-072-388T	7.2	388	TL30UD-072-194T	2 x 7.2	194		
		TL30US-090-311T	9	311	TL30UD-090-155T	2 x 9	155		
		TL30US-100-280T	10	280	TL30UD-100-140T	2 x 10	140		
		TL30US-120-233T	12	233	TL30UD-120-116T	2 x 12	116		
		TL30US-150-186T	15	186	TL30UD-150-093T	2 x 15	93		
		TL30US-180-155T	18	155	TL30UD-180-077T	2 x 18	77		
		TL30US-240-116T	24	116	TL30UD-240-058T	2 x 24	58		
	2x115	TL30MS-060-466T	6	466	TL30MD-060-233T	2 x 6	233	70	UL C-UL TUV CE
		TL30MS-072-388T	7.2	388	TL30MD-072-194T	2 x 7.2	194		
		TL30MS-090-311T	9	311	TL30MD-090-155T	2 x 9	155		
		TL30MS-100-280T	10	280	TL30MD-100-140T	2 x 10	140		
		TL30MS-120-233T	12	233	TL30MD-120-116T	2 x 12	116		
		TL30MS-150-186T	15	186	TL30MD-150-093T	2 x 15	93		
		TL30MS-180-155T	18	155	TL30MD-180-077T	2 x 18	77		
		TL30MS-240-116T	24	116	TL30MD-240-058T	2 x 24	58		

Series	Primary	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
2.9VA	230	TL30S-060-483T	6	483	TL30D-060-241T	2 x 6	241	70	TUV CE
		TL30S-072-402T	7.2	402	TL30D-072-201T	2 x 7.2	201		
		TL30S-090-322T	9	322	TL30D-090-161T	2 x 9	161		
		TL30S-100-290T	10	290	TL30D-100-145T	2 x 10	145		
		TL30S-120-241T	12	241	TL30D-120-120T	2 x 12	120		
		TL30S-150-193T	15	193	TL30D-150-096T	2 x 15	96		
		TL30S-180-161T	18	161	TL30D-180-080T	2 x 18	80		
		TL30S-240-120T	24	120	TL30D-240-060T	2 x 24	60		
	115	TL30US-060-483T	6	483	TL30UD-060-241T	2 x 6	241	70	UL C-UL
		TL30US-072-402T	7.2	402	TL30UD-072-201T	2 x 7.2	201		
		TL30US-090-322T	9	322	TL30UD-090-161T	2 x 9	161		
		TL30US-100-290T	10	290	TL30UD-100-145T	2 x 10	145		
		TL30US-120-241T	12	241	TL30UD-120-120T	2 x 12	120		
		TL30US-150-193T	15	193	TL30UD-150-096T	2 x 15	96		
		TL30US-180-161T	18	161	TL30UD-180-080T	2 x 18	80		
		TL30US-240-120T	24	120	TL30UD-240-060T	2 x 24	60		
	2x115	TL30MS-060-483T	6	483	TL30MD-060-241T	2 x 6	241	70	UL C-UL TUV CE
		TL30MS-072-402T	7.2	402	TL30MD-072-201T	2 x 7.2	201		
		TL30MS-090-322T	9	322	TL30MD-090-161T	2 x 9	161		
		TL30MS-100-290T	10	290	TL30MD-100-145T	2 x 10	145		
		TL30MS-120-241T	12	241	TL30MD-120-120T	2 x 12	120		
		TL30MS-150-193T	15	193	TL30MD-150-096T	2 x 15	96		
		TL30MS-180-161T	18	161	TL30MD-180-080T	2 x 18	80		
		TL30MS-240-120T	24	120	TL30MD-240-060T	2 x 24	60		
3.0VA	230	TL30S-060-500	6	500	TL30D-060-250	2 x 6	250	40	TUV CE
		TL30S-072-416	7.2	416	TL30D-072-208	2 x 7.2	208		
		TL30S-090-333	9	333	TL30D-090-166	2 x 9	166		
		TL30S-100-300	10	300	TL30D-100-150	2 x 10	150		
		TL30S-120-250	12	250	TL30D-120-125	2 x 12	125		
		TL30S-150-200	15	200	TL30D-150-100	2 x 15	100		
		TL30S-180-167	18	167	TL30D-180-083	2 x 18	83		
		TL30S-240-125	24	125	TL30D-240-062	2 x 24	62		
	115	TL30US-060-500	6	500	TL30UD-060-250	2 x 6	250	40	UL C-UL
		TL30US-072-416	7.2	416	TL30UD-072-208	2 x 7.2	208		
		TL30US-090-333	9	333	TL30UD-090-166	2 x 9	166		
		TL30US-100-300	10	300	TL30UD-100-150	2 x 10	150		
		TL30US-120-250	12	250	TL30UD-120-125	2 x 12	125		
		TL30US-150-200	15	200	TL30UD-150-100	2 x 15	100		
		TL30US-180-167	18	167	TL30UD-180-083	2 x 18	83		
		TL30US-240-125	24	125	TL30UD-240-062	2 x 24	62		
	2x115	TL30MS-060-500	6	500	TL30MD-060-250	2 x 6	250	40	UL C-UL TUV CE
		TL30MS-072-416	7.2	416	TL30MD-072-208	2 x 7.2	208		
		TL30MS-090-333	9	333	TL30MD-090-166	2 x 9	166		
		TL30MS-100-300	10	300	TL30MD-100-150	2 x 10	150		
		TL30MS-120-250	12	250	TL30MD-120-125	2 x 12	125		
		TL30MS-150-200	15	200	TL30MD-150-100	2 x 15	100		
		TL30MS-180-167	18	167	TL30MD-180-083	2 x 18	83		
		TL30MS-240-125	24	125	TL30MD-240-062	2 x 24	62		

Series	Primary	Single Secondary			Dual Secondary			ta (°C)	Agency Approval			
		Part Number	Secondary Rating		Part Number	Secondary Rating						
			(V)	(mA)		(V)	(mA)					
3.2VA	230	TL30S-060-533	6	533	TL30D-060-266	2 x 6	266	40	TUV CE			
		TL30S-072-444	7.2	444	TL30D-072-222	2 x 7.2	222					
		TL30S-090-355	9	355	TL30D-090-177	2 x 9	177					
		TL30S-100-320	10	320	TL30D-100-160	2 x 10	160					
		TL30S-120-266	12	266	TL30D-120-133	2 x 12	133					
		TL30S-150-213	15	213	TL30D-150-106	2 x 15	106					
		TL30S-180-177	18	177	TL30D-180-088	2 x 18	88					
		TL30S-240-133	24	133	TL30D-240-066	2 x 24	66					
		115	TL30US-060-533	6	533	TL30UD-060-266	2 x 6			266	40	UL C-UL
			TL30US-072-444	7.2	444	TL30UD-072-222	2 x 7.2			222		
			TL30US-090-355	9	355	TL30UD-090-177	2 x 9			177		
			TL30US-100-320	10	320	TL30UD-100-160	2 x 10			160		
	TL30US-120-266		12	266	TL30UD-120-133	2 x 12	133					
	TL30US-150-213		15	213	TL30UD-150-106	2 x 15	106					
	TL30US-180-177		18	177	TL30UD-180-088	2 x 18	88					
	TL30US-240-133		24	133	TL30UD-240-066	2 x 24	66					
	2x115		TL30MS-060-533	6	533	TL30MD-060-266	2 x 6	266	40	UL C-UL TUV CE		
			TL30MS-072-444	7.2	444	TL30MD-072-222	2 x 7.2	222				
			TL30MS-090-355	9	355	TL30MD-090-177	2 x 9	177				
			TL30MS-100-320	10	320	TL30MD-100-160	2 x 10	160				
		TL30MS-120-266	12	266	TL30MD-120-133	2 x 12	133					
		TL30MS-150-213	15	213	TL30MD-150-106	2 x 15	106					
		TL30MS-180-177	18	177	TL30MD-180-088	2 x 18	88					
		TL30MS-240-133	24	133	TL30MD-240-066	2 x 24	66					