



Primary

Dual primary winding for connection in series or parallel only

 RoHS Compliant

Termination

All leads Tri-Rated UL1015 style cable rated 600V /105°C VW-1 Primary leads double insulated with PVC sleeving for a minimum of 20mm. Lead lengths ±5mm approx. All leads ends tinned to 6mm.

Pri/Sec leads 0°

Temperature Class

Winding Wire : Class H (180°C)
Insulation System : Class B (130°C)
Leadout Insulation : Class A (105°C)
Overall : Class A (105°C)

Standards

Designed and manufactured in accordance with: EN61558-1 / EN61558-1/A1 / EN61558-2-4 or EN61558-2-6 UL recognised under family approval E115159 to UL1411, UL60601-1, UL60065-1

Losses

Part Number	Iron Loss	Copper Loss	Efficiency	Temperature Rise	Ambient Rated	
15VA General F	Purpose Toroida	al Transformers				
MCTA015/06						
MCTA015/09						
MCTA015/12	0.25 Watts Approx.	2.5 Watts Approx.	84% typical	27°C Approx.	40°C	
MCTA015/15	πρριοχ.	γιρρίολ.				
MCTA015/18						
30VA General Purpose Toroidal Transformers						
MCTA030/06						
MCTA030/09		4.9 Watts Approx. 85% typical	QE0/ typical 4			
MCTA030/12	0.37 Watts			42°C Approx	40°C	
MCTA030/15	Approx.		Approx.	65% typical 42 C F	42°C Approx.	40 C
MCTA030/18						
MCTA030/25						
50VA General F	Purpose Toroida	al Transformers				
MCTA050/06						
MCTA050/09						
MCTA050/12	0.46 Watts Approx.	7.3 Watts Approx.	87% typical	50°C Approx.	40°C	
MCTA050/15	Αρρίολ.	Αρρίολ.				
MCTA050/18						





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Part Number	Iron Loss	Copper Loss	Efficiency	Temperature Rise	Ambient Rated	
MCTA050/25	0.46 Watts	7.3 Watts	87% typical	50°C Approx.	40°C	
MCTA050/55	Approx.	Approx.				
	Purpose Toroid	al Transformers	; 	1		
MCTA060/09						
MCTA060/12	0.57 Watts	7.9 Watts				
MCTA060/15	Approx.	Approx.	88% typical	47°C Approx.	40°C	
MCTA060/18						
MCTA060/25						
	Purpose Toroid	al Transformers	; -	,		
MCTA080/09						
MCTA080/12						
MCTA080/15	0.58 Watts	9.5 Watts	89% typical	52°C Approx.	40°C	
MCTA080/18	Approx.	Approx.	oo /o typicai	02 0 / ipprox.	.0 0	
MCTA080/25						
MCTA080/55						
100VA General	Purpose Toroi	dal Transformer	's			
MCTA100/12						
MCTA100/15	0.85 Watts	10.3 Watts	90% typical	52°C Approx.	40°C	
MCTA100/18	Approx.	Approx.	90% typicai	52 C Approx.	40 0	
MCTA100/25						
120VA General	Purpose Toroi	dal Transformer	's	,		
MCTA120/12						
MCTA120/15						
MCTA120/18	0.98 Watts	11.4 Watts	91% typical	54°C Approx.	40°C	
MCTA120/25	Approx.	Approx.				
MCTA120/55						
160VA General	Purpose Toroi	dal Transformer	'S			
MCTA160/12						
MCTA160/15						
MCTA160/18	1.12 Watts	13.9 Watts	040/ +::=:==:	E4°C A =====	40°0	
MCTA160/25	Approx.	Approx.	91% typical	54°C Approx.	40°C	
MCTA160/30						
MCTA160/55						
225VA General	Purpose Toroi	dal Transformer	'S			
MCTA225/12						
MCTA225/15	1.49 Watts	16.9 Watts	92% typical	56°C Approx.	40°C	
MCTA225/18	Approx.	Approx.				





Part Number	Iron Loss	Copper Loss	Efficiency	Temperature Rise	Ambient Rated
MCTA225/25	4.40.18/-11-	40.014/-11/-			
MCTA225/30	1.49 Watts Approx.	16.9 Watts Approx.	92% typical	56°C Approx.	40°C
MCTA225/55	7 (5)71071.	πρριοχ.			
250VA General	Purpose Toroi	dal Transformer	s		
MCTA250/12					
MCTA250/18					
MCTA250/25					
MCTA250/30	1.62 Watts	17.4 Watts	020/ typical	EEOC Approx	40°C
MCTA250/35	Approx.	Approx.	93% typical	55°C Approx.	40 C
MCTA250/40					
MCTA250/45					
MCTA250/50					
300VA General	Purpose Toroi	dal Transformer	'S		
MCTA300/25					
MCTA300/30	1.8 Watts	19.8 Watts	030/ tupical	FG°C Approx	40°C
MCTA300/35	Approx.	Approx.	93% typical	56°C Approx.	40 C
MCTA300/55					
1,000VA Gener	al Purpose Tor	oidal Transform	ers		
MCTA1000/40	4.40.18/-11-	00.4.14/.11/.			
MCTA1000/50	TA1000/50		96% typical	60°C Approx.	40°C
MCTA1000/55	, , , , , , , , , , , , , , , , , , , ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Supplied with

15VA General Purpose Toroidal Transformers					
	MCTA015/06				
1x 50mm dished mounting plate	MCTA015/09				
2x 50mm neoprene mounting pads	MCTA015/12				
1x M5 x 40mm screw, nut & washer	MCTA015/15				
	MCTA015/18				
30VA General Purpose Toroidal Transfo	rmers				
	MCTA030/06				
	MCTA030/09				
1x 50mm dished mounting plate	MCTA030/12				
2x 50mm neoprene mounting pads 1x M5 x 40mm screw, nut & washer	MCTA030/15				
IX MO X TOMM COLON, Hat a Wacher	MCTA030/18				
	MCTA030/25				

50VA General Purpose Toroidal Transformers					
	MCTA050/06				
	MCTA050/09				
1x 50mm dished mounting plate	MCTA050/12				
2x 50mm neoprene mounting pads	MCTA050/15				
1x M5 x 40mm screw, nut & washer	MCTA050/18				
	MCTA050/25				
	MCTA050/55				
60VA General Purpose Toroidal Transfo	rmers				
	MCTA060/09				
1x 70mm dished mounting plate	MCTA060/12				
2x 70mm neoprene mounting pads	MCTA060/15				
1x M6 x 50mm screw, nut & washer	MCTA060/18				
	MCTA060/25				





80VA General Purpose Toroidal Transformers						
	MCTA080/09					
<u> </u>	MCTA080/12					
1x 70mm dished mounting plate	MCTA080/15					
2x 70mm neoprene mounting pads 1x M6 x 50mm screw, nut & washer	MCTA080/18					
TX WO X Soffin Sciew, flut & washer	MCTA080/25					
	MCTA080/55					
100VA General Purpose Toroidal Transf	ormers					
	MCTA100/12					
1x 70mm dished mounting plate	MCTA100/15					
2x 70mm neoprene mounting pads 1x M6 x 50mm screw, nut & washer	MCTA100/18					
TX WO X Soffin Sciew, flut & washer	MCTA100/25					
120VA General Purpose Toroidal Transf	ormers					
	MCTA120/12					
1x 70mm dished mounting plate	MCTA120/15					
2x 70mm neoprene mounting pads	MCTA120/18					
1x M6 x 50mm screw, nut & washer	MCTA120/25					
	MCTA120/55					
160VA General Purpose Toroidal Transf	ormers					
	MCTA160/12					
	MCTA160/15					
1x 90mm dished mounting plate	MCTA160/18					
2x 90mm neoprene mounting pads 1x M6 x 60mm screw, nut & washer	MCTA160/25					
1 1 WIO A COMMIN SCIEW, MUL & WASHE	MCTA160/30					
	MCTA160/55					

225VA General Purpose Toroidal Transf	225VA General Purpose Toroidal Transformers					
·	MCTA225/12					
	MCTA225/15					
1x 90mm dished mounting plate	MCTA225/18					
2x 90mm neoprene mounting pads 1x M6 x 60mm screw, nut & washer	MCTA225/25					
17 MO X COMMISCIEW, MUL & Washer	MCTA225/30					
	MCTA225/55					
250VA General Purpose Toroidal Transf	ormers					
	MCTA250/12					
	MCTA250/18					
1x 90mm dished mounting plate	MCTA250/25					
	MCTA250/30					
2x 90mm neoprene mounting pads 1x M6 x 60mm screw, nut & washer	MCTA250/35					
TX WO X COMM Sciew, Mat & Washer	MCTA250/40					
	MCTA250/45					
	MCTA250/50					
300VA General Purpose Toroidal Transf	ormers					
	MCTA300/25					
1x 90mm dished mounting plate	MCTA300/30					
2x 90mm neoprene mounting pads 1x M6 x 60mm screw, nut & washer	MCTA300/35					
TX WO X COMM SCIEW, Mat & Washer	MCTA300/55					
1,000VA General Purpose Toroidal Tran	sformers					
1x 145mm dished mounting plate	MCTA1000/40					
2x 148mm neoprene mounting pads	MCTA1000/50					
1x M8 x 80mm screw, nut & washer	MCTA1000/55					

Specification Table

Part Number	On Load Sec V	Rated Amps per Sec	Off load Sec V	Sec Flex Gauge	Sec Ω @ 20°C	Diameter Allow Extra 5mm	Height Over Leadout Area	Weight
15VA General Purpose Toroidal Transformers								
MCTA015/06	6	1.25	6.9		0.46			
MCTA015/09	9	0.83	10.4		1.08			
MCTA015/12	12	0.63	13.9	22 AWG	1.76	64.5mm	30.5mm	0.33kg
MCTA015/15	15	0.5	17.3		2.78			
MCTA015/18	18	0.42	20.9		4.21			
30VA General Purpose Toroidal Transformers								
MCTA030/06	6	2.5	6.9		0.21			
MCTA030/09	9	1.67	10.3	22 AWG	0.44	73mm	31mm	0.48kg
MCTA030/12	12	1.25	13.9		0.9			





Part Number	On Load Sec V	Rated Amps per Sec	Off load Sec V	Sec Flex Gauge	Sec Ω @ 20°C	Diameter Allow Extra 5mm	Height Over Leadout Area	Weight		
MCTA030/15	15	1	17.4		1.44					
MCTA030/18	18	0.83	20.9	22 AWG	2.13	73mm	31mm	0.48kg		
MCTA030/25	25	0.6	28.8]	3.74					
50VA General P	urpose Tor	oidal Transfor	ners							
MCTA050/06	6	4.17	6.8		0.11					
MCTA050/09	9	2.78	10.2]	0.23					
MCTA050/12	12	2.08	13.6]	0.44					
MCTA050/15	15	1.67	17	22 AWG	0.69	81mm	34.5mm	0.65kg		
MCTA050/18	18	1.39	20.5]	5.4					
MCTA050/25	25	1	28.4]	1.83					
MCTA050/55	55	0.45	62.3]	8.93					
60VA General P	urpose Tor	oidal Transfori	ners	•		n	-			
MCTA060/09	9	3.33	10.1	20 AWG	0.19					
MCTA060/12	12	2.5	13.5		0.36					
MCTA060/15	15	2	16.9	0.51	91.5mm	39mm	0.78kg			
MCTA060/18	18	1.67	20.2	22 AWG	0.77					
MCTA060/25	25	1.2	28]	1.36	1				
80VA General P	urpose Tor	oidal Transfor	ners							
MCTA080/09	9	4.44	10.1	20 AWG	0.12					
MCTA080/12	12	3.33	13.3	20 AVVG	0.23					
MCTA080/15	15	2.67	16.7		0.35	87.5mm	87.5mm 39mm	97.5mm	20mm	0.0614
MCTA080/18	18	2.22	20.1	22 AWG	0.53			3911111	0.96kg	
MCTA080/25	25	1.6	27.7	22 AVVG	0.93					
MCTA080/55	55	0.73	60.7]	4.15					
100VA General	Purpose To	proidal Transfo	rmers	•						
MCTA100/12	12	4.17	13.1		0.15					
MCTA100/15	15	3.33	16.3	20 000	0.23	04	46	4.401.0		
MCTA100/18	18	2.78	19.7	20 AWG	0.35	91mm	46mm	1.13kg		
MCTA100/25	25	2	27.4]	0.68					
120VA General	Purpose To	proidal Transfo	rmers	•						
MCTA120/12	12	5	13.2	18 AWG	0.12					
MCTA120/15	15	4	16.4		0.19					
MCTA120/18	18	3.33	19.6	20 414/0	0.29	95mm	47mm	1.32kg		
MCTA120/25	25	2.4	27.3	20 AWG	0.55					
MCTA120/55	55	1.09	59.5]	2.18					







Part Number	On Load Sec V	Rated Amps per Sec	Off load Sec V	Sec Flex Gauge	Sec Ω @ 20°C	Diameter Allow Extra 5mm	Height Over Leadout Area	Weight		
160VA General	Purpose To	oroidal Transfo	rmers							
MCTA160/12	12	6.67	13	18 AWG	0.08					
MCTA160/15	15	5.33	16.4	18 AVVG	0.13					
MCTA160/18	18	4.44	19.6	0.17	105mm	47mm	1.64kg			
MCTA160/25	25	3.2	27	20 AWG	0.33	10311111	4/111111	1.04kg		
MCTA160/30	30	2.67	32.5	20 AVVG	0.50					
MCTA160/55	55	1.45	59.5		1.59					
225VA General	Purpose To	roidal Transfo	rmers							
MCTA225/12	12	9.38	12.7	16 AWG	0.05					
MCTA225/15	15	7.5	16.1	10 AVVG	0.08					
MCTA225/18	18	6.25	19.2	18 AWG	0.12	110.5mm	110 Emm	110 Emm	51mm	2.20kg
MCTA225/25	25	4.5	26.7	10 AVVG	0.21		3111111 2.2	2.20kg		
MCTA225/30	30	3.75	32.2	20 AWG	0.32					
MCTA225/55	55	2.05	58.7	20 AVVG	1					
250VA General	Purpose To	roidal Transfo	rmers							
MCTA250/12	12	10.42	12.8	16 AWG	0.04					
MCTA250/18	18	6.94	19.2	10 AVVG	0.09					
MCTA250/25	25	5	26.7	18 AWG	0.16	110 5mm				
MCTA250/30	30	4.17	31.9		0.24		119.5mm	53.5mm	2.38kg	
MCTA250/35	35	3.57	37.2		0.32	119.511111	33.311111	2.50kg		
MCTA250/40	40	3.13	42.5	20 AWG	0.4					
MCTA250/45	45	2.78	48.1		0.51					
MCTA250/50	50	2.5	53.3		0.63					
300VA General	Purpose To	roidal Transfo	rmers							
MCTA300/25	25	6	26.6		0.14					
MCTA300/30	30	5	31.9	18 AWG	0.19	125.5mm	54mm	2.83kg		
MCTA300/35	35	4.29	37.1		0.28	120.0111111	J-111111	2.03kg		
MCTA300/55	55	2.73	58.5	20 AWG	0.7					
1,000VA Genera	al Purpose	Toroidal Trans	formers							
MCTA1000/40	40	12.5	41.5	14 AWG	0.06					
MCTA1000/50	50	10	52	16 AWG	0.1	167mm	70.5mm	7.48kg		
MCTA1000/55	55	9.09	56.9	IOAVVG	0.14					

Part Number Table

Description	Part Number
Transformer, Toroidal, 2 × 6V, 15VA	MCTA015/06
Transformer, Toroidal, 2 × 9V, 15VA	MCTA015/09

Description	Part Number
Transformer, Toroidal, 2 × 12V, 15VA	MCTA015/12
Transformer, Toroidal, 2 × 15V, 15VA	MCTA015/15





Description	Part Number
Transformer, Toroidal, 2 × 18V, 15VA	MCTA015/18
Transformer, Toroidal, 2 × 6V, 30VA	MCTA030/06
Transformer, Toroidal, 2 × 9V, 30VA	MCTA030/09
Transformer, Toroidal, 2 × 12V, 30VA	MCTA030/12
Transformer, Toroidal, 2 × 15V, 30VA	MCTA030/15
Transformer, Toroidal, 2 × 18V, 30VA	MCTA030/18
Transformer, Toroidal, 2 × 25V, 30VA	MCTA030/25
Transformer, Toroidal, 2 × 6V, 50VA	MCTA050/06
Transformer, Toroidal, 2 × 9V, 50VA	MCTA050/09
Transformer, Toroidal, 2 × 12V, 50VA	MCTA050/12
Transformer, Toroidal, 2 × 15V, 50VA	MCTA050/15
Transformer, Toroidal, 2 × 18V, 50VA	MCTA050/18
Transformer, Toroidal, 2 × 25V, 50VA	MCTA050/25
Transformer, Toroidal, 2 × 55V, 50VA	MCTA050/55
Transformer, Toroidal, 2 × 9V, 60VA	MCTA060/09
Transformer, Toroidal, 2 × 12V, 60VA	MCTA060/12
Transformer, Toroidal, 2 × 15V, 60VA	MCTA060/15
Transformer, Toroidal, 2 × 18V, 60VA	MCTA060/18
Transformer, Toroidal, 2 × 25V, 60VA	MCTA060/25
Transformer, Toroidal, 2 × 9V, 80VA	MCTA080/09
Transformer, Toroidal, 2 × 12V, 80VA	MCTA080/12
Transformer, Toroidal, 2 × 15V, 80VA	MCTA080/15
Transformer, Toroidal, 2 × 18V, 80VA	MCTA080/18
Transformer, Toroidal, 2 × 25V, 80VA	MCTA080/25
Transformer, Toroidal, 2 × 55V, 80VA	MCTA080/55
Transformer, Toroidal, 2 × 12V, 100VA	MCTA100/12
Transformer, Toroidal, 2 × 15V, 100VA	MCTA100/15
Transformer, Toroidal, 2 × 18V, 100VA	MCTA100/18
Transformer, Toroidal, 2 × 25V, 100VA	MCTA100/25
Transformer, Toroidal, 2 × 12V, 120VA	MCTA120/12
Transformer, Toroidal, 2 × 15V, 120VA	MCTA120/15

Description	Part Number
Transformer, Toroidal, 2 × 18V, 120VA	MCTA120/18
Transformer, Toroidal, 2 × 25V, 120VA	MCTA120/25
Transformer, Toroidal, 2 × 55V, 120VA	MCTA120/55
Transformer, Toroidal, 2 × 12V, 160VA	MCTA160/12
Transformer, Toroidal, 2 × 15V, 160VA	MCTA160/15
Transformer, Toroidal, 2 × 18V, 160VA	MCTA160/18
Transformer, Toroidal, 2 × 25V, 160VA	MCTA160/25
Transformer, Toroidal, 2 × 30V, 160VA	MCTA160/23
Transformer, Toroidal, 2 × 55V, 160VA	MCTA160/55
Transformer, Toroidal, 2 × 12V, 225VA	MCTA100/33 MCTA225/12
	MCTA225/12 MCTA225/15
Transformer, Toroidal, 2 × 15V, 225VA	
Transformer, Toroidal, 2 × 18V, 225VA	MCTA225/18
Transformer, Toroidal, 2 × 25V, 225VA	MCTA225/25
Transformer, Toroidal, 2 × 30V, 225VA	MCTA225/30
Transformer, Toroidal, 2 × 55V, 225VA	MCTA225/55
Transformer, Toroidal, 2 × 12V, 250VA	MCTA250/12
Transformer, Toroidal, 2 × 18V, 250VA	MCTA250/18
Transformer, Toroidal, 2 × 25V, 250VA	MCTA250/25
Transformer, Toroidal, 2 × 30V, 250VA	MCTA250/30
Transformer, Toroidal, 2 × 35V, 250VA	MCTA250/35
Transformer, Toroidal, 2 × 40V, 250VA	MCTA250/40
Transformer, Toroidal, 2 × 45V, 250VA	MCTA250/45
Transformer, Toroidal, 2 × 50V, 250VA	MCTA250/50
Transformer, Toroidal, 2 × 25V, 300VA	MCTA300/25
Transformer, Toroidal, 2 × 30V, 300VA	MCTA300/30
Transformer, Toroidal, 2 × 35V, 300VA	MCTA300/35
Transformer, Toroidal, 2 × 55V, 300VA	MCTA300/55
Transformer, Toroidal, 2 × 40V, 1000VA	MCTA1000/40
Transformer, Toroidal, 2 × 50V, 1000VA	MCTA1000/50
Transformer, Toroidal, 2 × 55V, 1000VA	MCTA1000/55

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