SCHEMATIC DIAGRAM

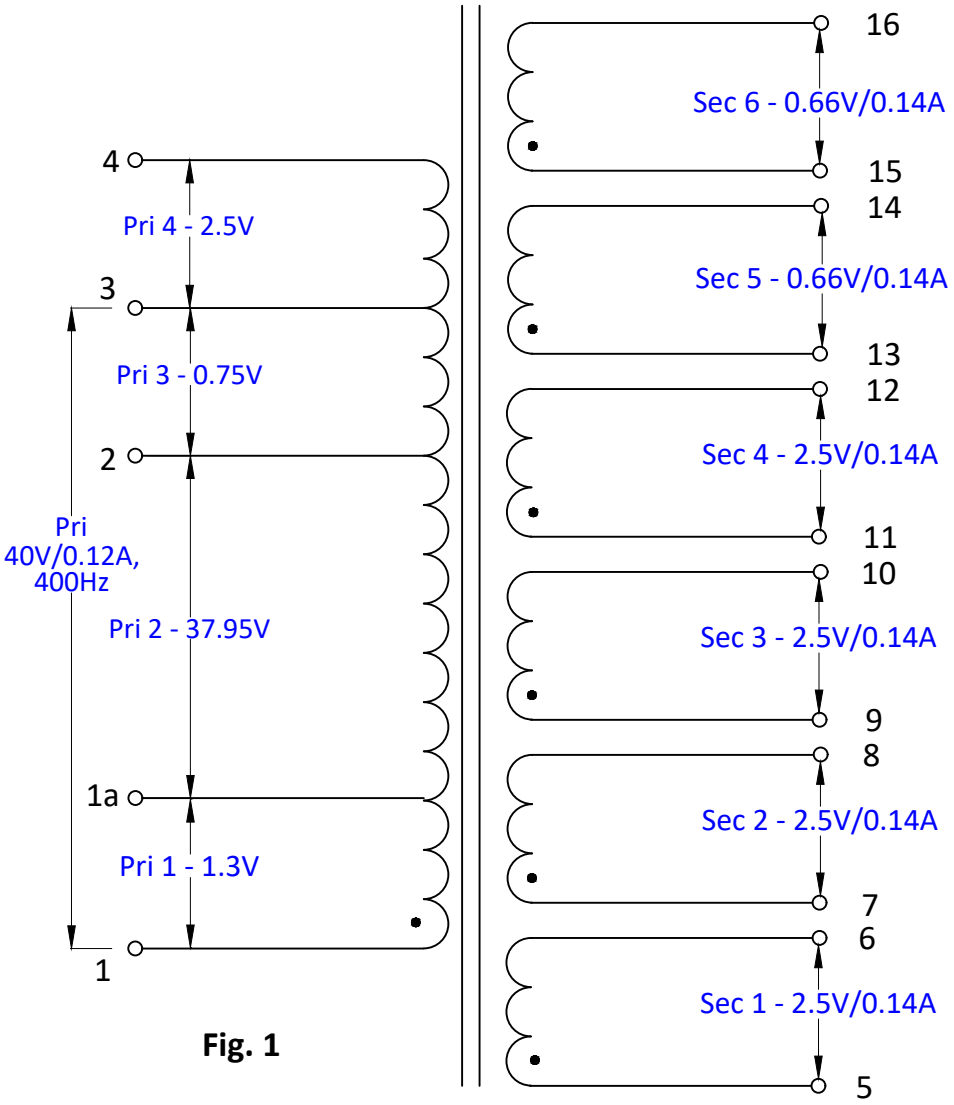

Fig. 1

● Indicates the starting of Winding

ROHS COMPLIANT

TITLE : Schematic Diagram					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 91048	
					REV: A	DATE: 12-07-2023	SHEET: 1 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.			GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED			SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

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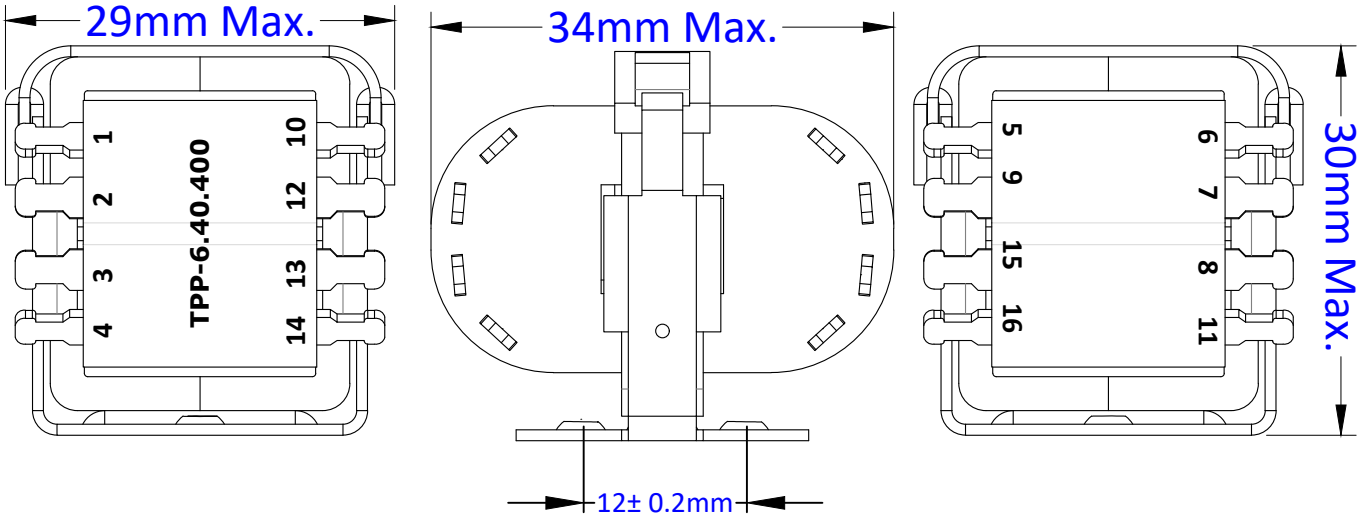
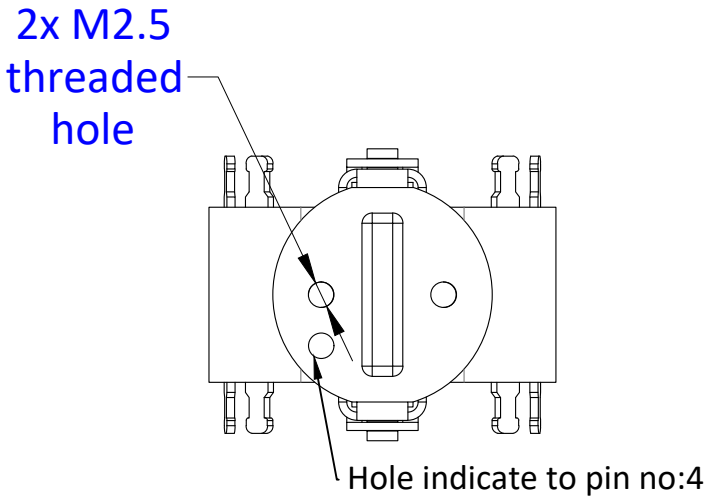
MECHANICAL DIMENSION





ROHS COMPLIANT

TITLE : Mechanical Diagram					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	91048	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	2 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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ELECTRICAL SPECIFICATION

1.Voltage given at the primary windings of the transformer				
Mains rated voltage V. across terminals 1& 3	Voltage across			Tolerance %
	1-1a	2-3	3-4	
40V at 400Hz	1.3V	0.75V	2.5V	1% of mains Nominal voltage

2.Secondary winding voltage in open circuit condition						
Open circuit current A (Max)	Secondary winding Voltage					
	Tolerance ±3%				Tolerance ±10%	
	5-6	7-8	9-10	11-12	13-14	15-16
0.12	2.96	2.96	3.0	3.0	0.78	0.78

3.Secondary voltage & current in rated load current							
Primary current A (Max)	Secondary Voltage						Secondary windings Current (A)
	Tolerance +10%,-5%				Tolerance +14%,-10%		
	5-6	7-8	9-10	11-12	13-14	15-16	
0.12	2.5	2.5	2.5	2.5	0.66	0.66	0.14

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	91048	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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ELECTRICAL SPECIFICATION

1.Insulation resistance : Across windings As well as between body & Windings :≥1000MΩ at 500VDC
2.Insulation strength :

Primary winding to body	:500V,50Hz
Primary to secondary winding	:500V,50Hz
Secondary winding & Body	:500V,50Hz
Across the Secondary windings	:500V,50Hz
3.Primary winding voltage across 1&3	:38V(Min), 42V(Max)
4.Main frequency	:360Hz (Min),1000Hz(Max)
5.Temperature rise	:≤55°C
6.Weight	:<38gram
7.Part No	:TPP6-40-400
	(Equivalent to Russian transformer ТПП6-40-400)

ENVIRONMENTAL TESTS :
The transformer will meet thermal & humidity requirements.

1.High operating temperature of medium	:85°±2°C
2.Low operating temperature of medium	:-60°C
3.Temperature variation of medium	:-60°C to +85°C
4.High relative humidity at temperature of medium 25°C	:98+0/-5%

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	91048	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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SCHEMATIC DIAGRAM

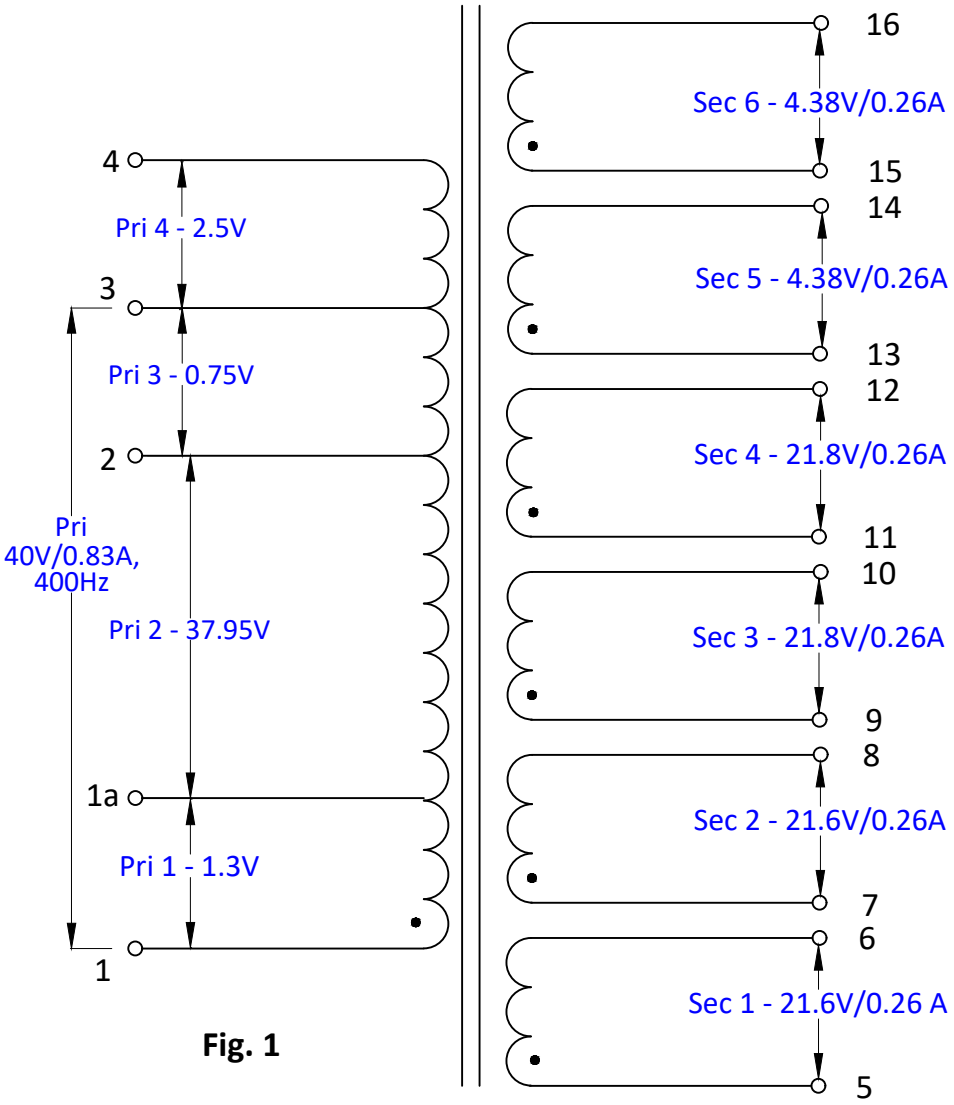

Fig. 1

● Indicates the starting of Winding

ROHS COMPLIANT

TITLE : Schematic Diagram					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 91047	
					REV: A	DATE: 12-07-2023	SHEET: 1 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.			GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED			SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

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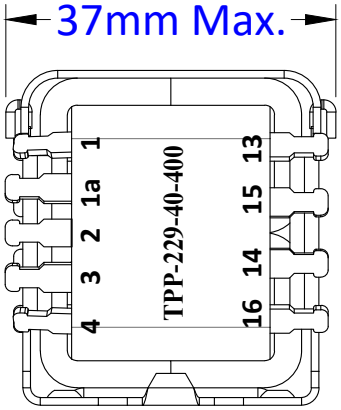
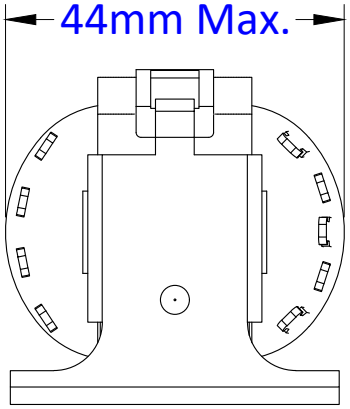
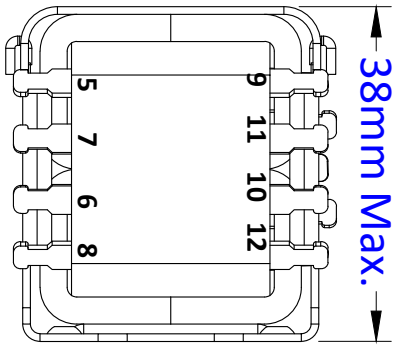
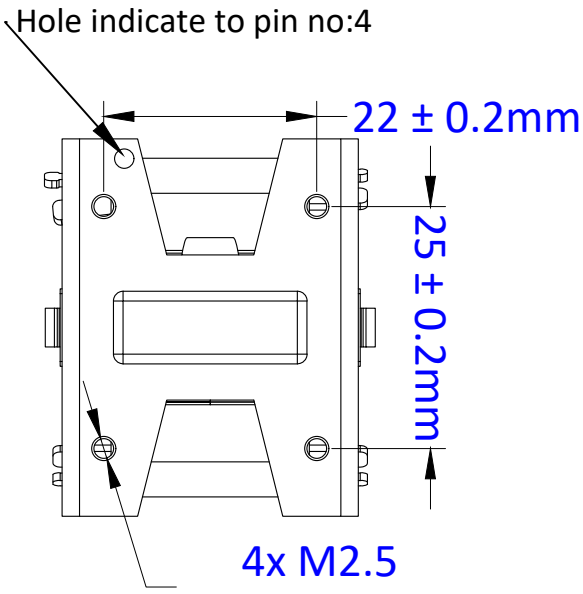
MECHANICAL DIMENSION









ROHS COMPLIANT

TITLE : Mechanical Diagram					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	91047	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	2 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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ELECTRICAL SPECIFICATION

1.Voltage given at the primary windings of the transformer				
Mains rated voltage V. across terminals 1& 3	Voltage across			Tolerance %
	1-1a	2-3	3-4	
40V at 400Hz	1.3V	0.75V	2.5V	1% of mains Nominal voltage

2.Secondary winding voltage in open circuit condition						
Open circuit current A (Max)	Secondary winding Voltage					
	Tolerance ±3%				Tolerance ±10%	
	5-6	7-8	9-10	11-12	13-14	15-16
0.45	21.6	21.6	21.8	21.8	4.38	4.38

3.Secondary voltage & current in rated load current							
Primary current A (Max)	Secondary Voltage						Secondary windings Current (A)
	Tolerance +10%,-5%				Tolerance +14%,-10%		
	5-6	7-8	9-10	11-12	13-14	15-16	
0.83	20	20	20	20	4	4	0.26

ROHS COMPLIANT

CH LTR	ALT NO	SIGN	DATE	CHANGES
	A		12-07-2023	Initial Release

TITLE : Electrical Specification

PART DESC: Transformer

CUSTOMER PART NO: -

SVM PART CODE: 91047

REV: A | DATE: 12-07-2023 | SHEET: 3 of 3

SCALE : NTS

SIZE : A4

ALL DIMENSIONS ARE IN mm.

GENERAL TOLERANCE ± 0.05 mm
UNLESS OTHERWISE SPECIFIED

svm CHENNAI

DRAWN	CHECKED	APPROVED
-	-	-

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ELECTRICAL SPECIFICATION

1.Insulation resistance : Across windings As well as between body & Windings :≥1000MΩ at 500VDC
2.Insulation strength :

Primary winding to body	:500V,50Hz
Primary to secondary winding	:500V,50Hz
Secondary winding & Body	:500V,50Hz
Across the Secondary windings	:500V,50Hz
3.Primary winding voltage across 1&3	:38V(Min), 42V(Max)
4.Main frequency	:360Hz (Min),1000Hz(Max)
5.Temperature raise	:≤55°C
6.Weight	: <140gms
7.Part no	:TPP229-40-400
	(Equivalent to Russian transformer ТПП229-40-400)

ENVIRONMENTAL TESTS :
The transformer will meet thermal & humidity requirements.

1.High operating temperature of medium	:85°±2°C
2.Low operating temperature of medium	:-60°C
3.Temperature variation of medium	:-60°C to +85°C
4.High relative humidity at temperature of medium 25°C	:98+0/-5%

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	91047	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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SCHEMATIC DIAGRAM

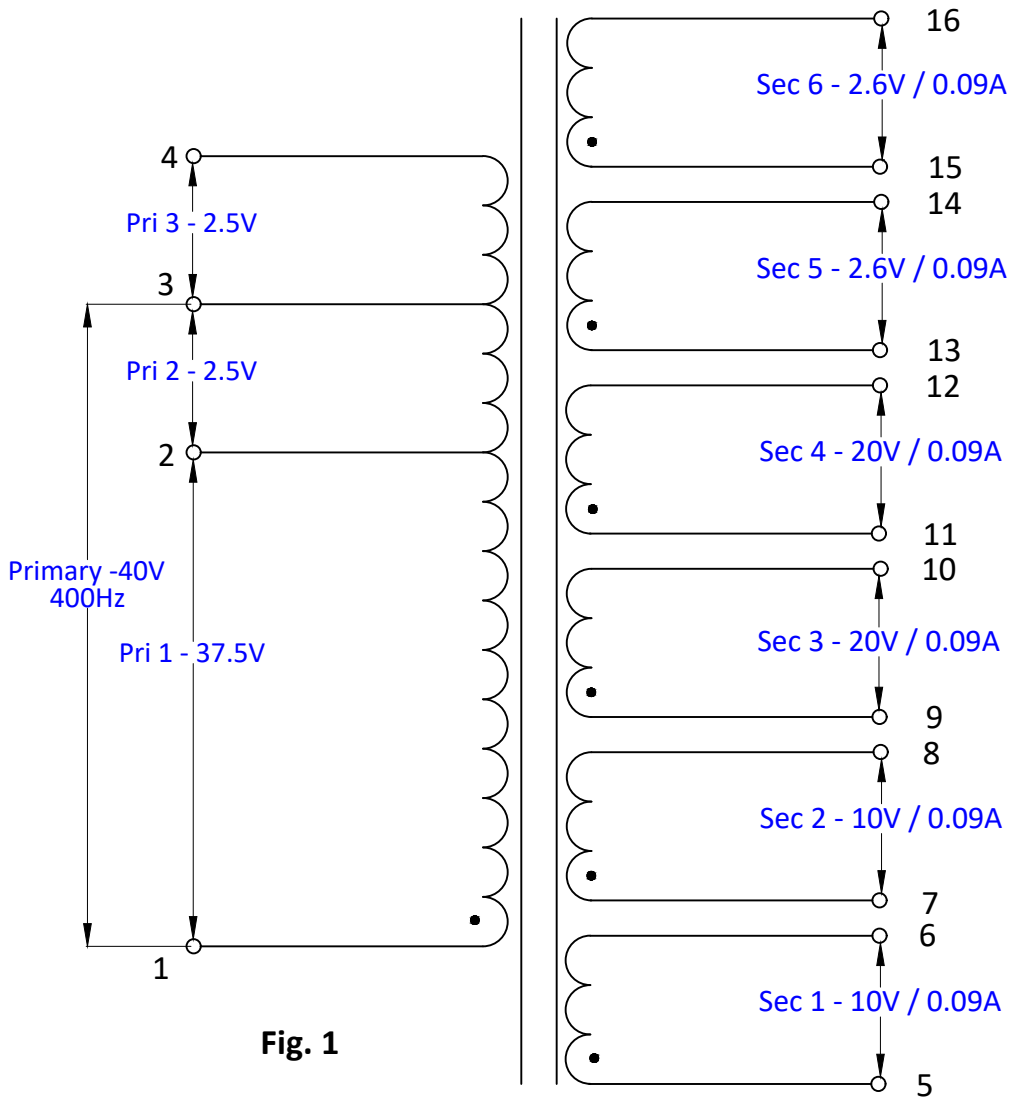

Fig. 1

● Indicates the starting of Winding

ROHS COMPLIANT

TITLE : Schematic Diagram					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 98052	
					REV: A	DATE: 12-07-2023	SHEET: 1 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.			GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED			SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

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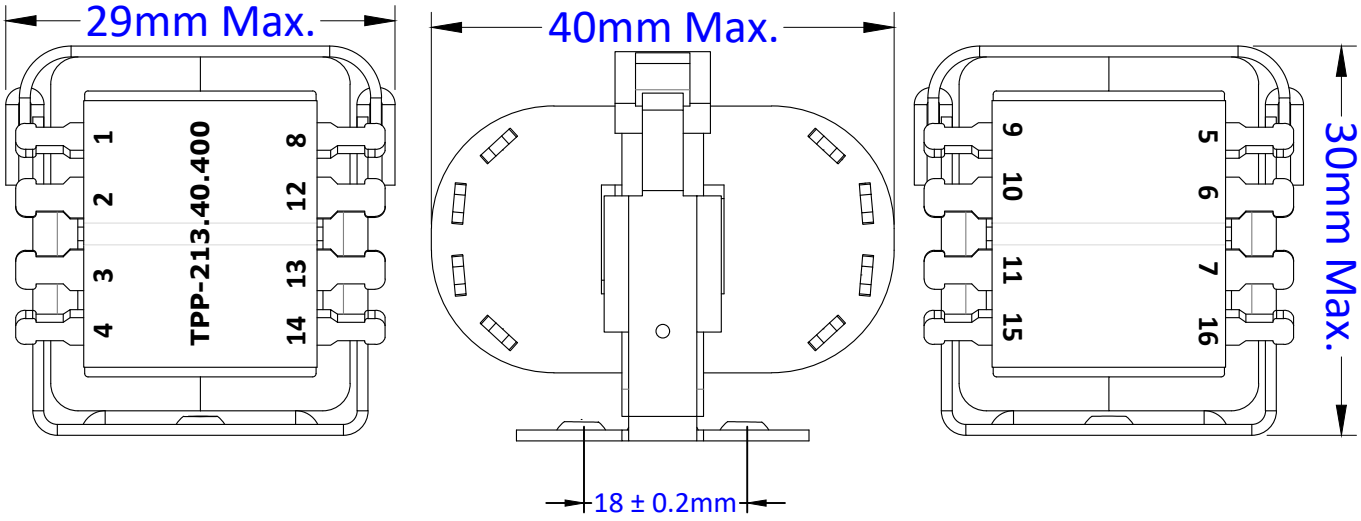
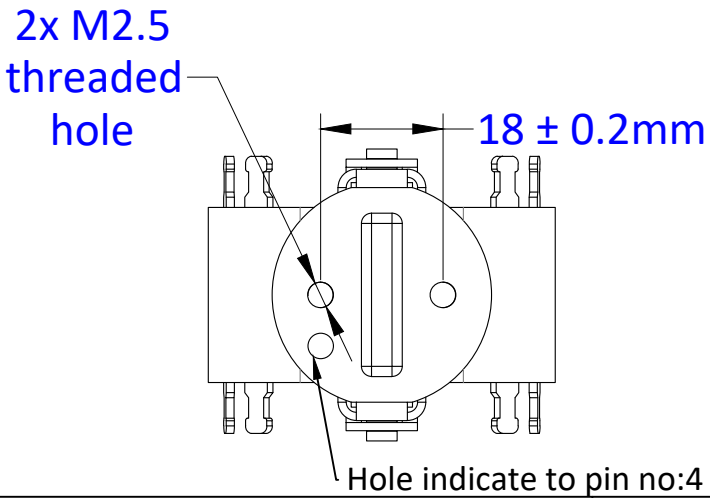
MECHANICAL DIMENSION





ROHS COMPLIANT

TITLE : Mechanical Diagram					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 98052	
					REV: A	DATE: 12-07-2023	SHEET: 2 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

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ELECTRICAL SPECIFICATION

1.Voltage given at the primary windings of the transformer				
Mains rated voltage V. across terminals 1& 3	Voltage across			Tolerance %
	-	2-3	3-4	
40V at 400Hz	-	2.5V	2.5V	1% of mains Nominal voltage

2.Secondary winding voltage in open circuit condition						
Open circuit current A (Max)	Secondary winding Voltage					
	Tolerance ±3%				Tolerance ±10%	
	5-6	7-8	9-10	11-12	13-14	15-16
0.21	11.3	11.3	22.4	22.4	3.02	3.02

3.Secondary voltage & current in rated load current							
Primary current A (Max)	Secondary Voltage						Secondary windings Current (A)
	Tolerance +10%,-5%				Tolerance +14%,-10%		
	5-6	7-8	9-10	11-12	13-14	15-16	
0.28	10	10	20	20	2.6	2.6	0.09

1.Insulation resistance : Across windings As well as between body & Windings :≥1000MΩ at 500VDC
2.Insulation strength :
Primary winding to body :500V,50Hz
Primary to secondary winding :500V,50Hz
Secondary winding & Body :500V,50Hz
Across the Secondary windings :500V,50Hz
3.Rated capacity VA :6VA(Nom), 8.5VA(Max)
4.Primary winding voltage across 1&3 :38V(Min), 42V(Max)
5.Main frequency Hz :380Hz (Min),1000Max
6.Temperature rise :≤55°C
7.Part no :TPP.213.40.400
(Equivalent to Russian transformer ТПП.213.40.400)

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98052	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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ELECTRICAL SPECIFICATION

ENVIRONMENTAL TESTS :

The transformer will meet thermal & humidity requirements.

1.High operating temperature of medium	:85°±2°C
2.Low operating temperature of medium	:-60°C
3.Temperature variation of medium	:-60°C to +85°C
4.High relative humidity at temperature of medium 25°C	:98+0/-5%

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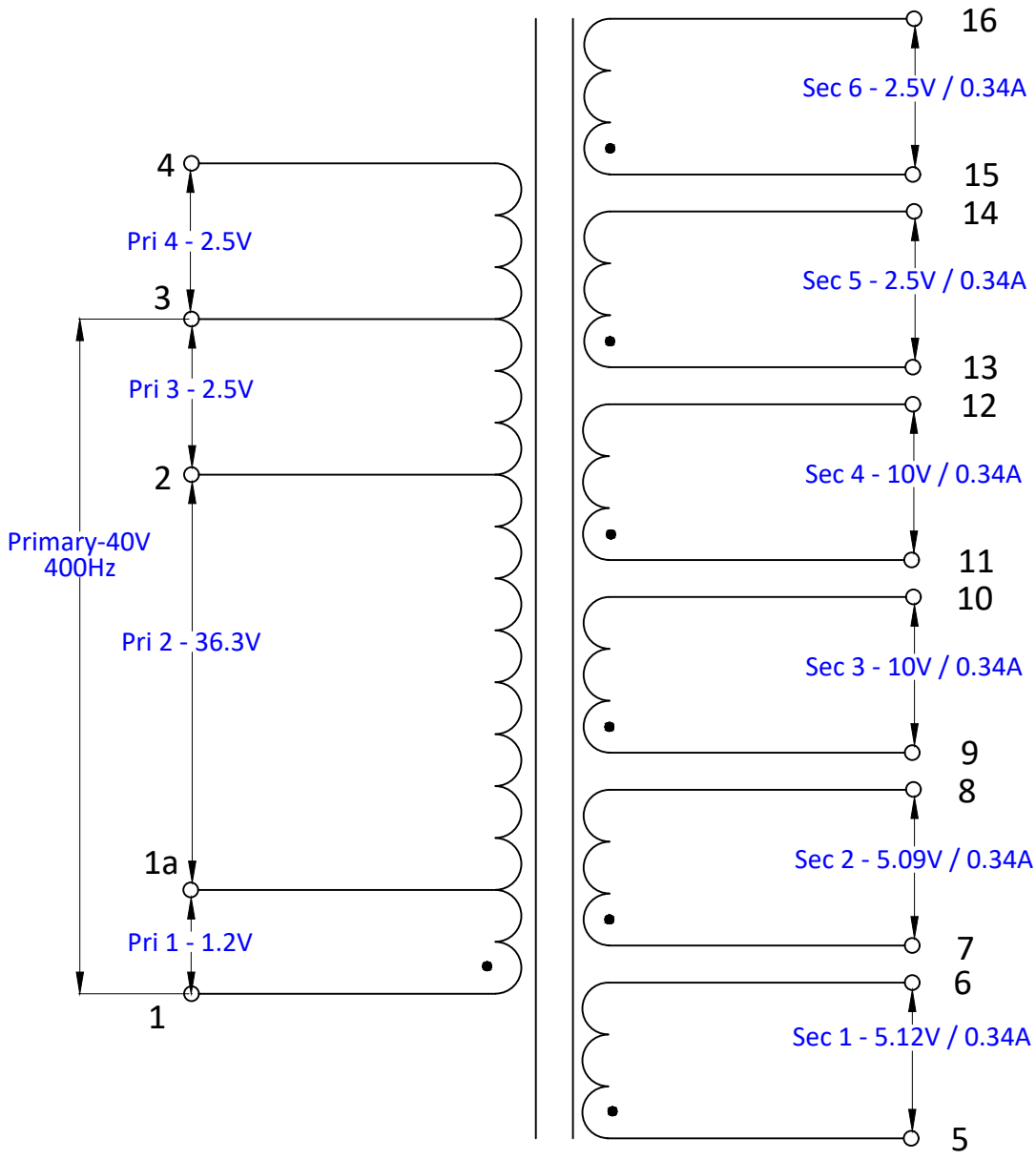
ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98052	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

SCHEMATIC DIAGRAM



● Indicates the starting of Winding

ROHS COMPLIANT

TITLE : Schematic Diagram					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98055	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	1 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

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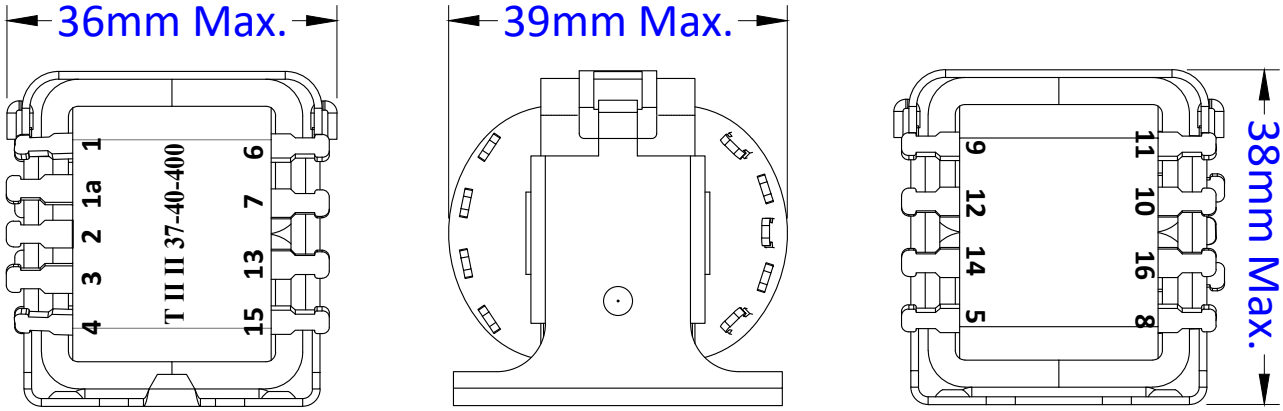
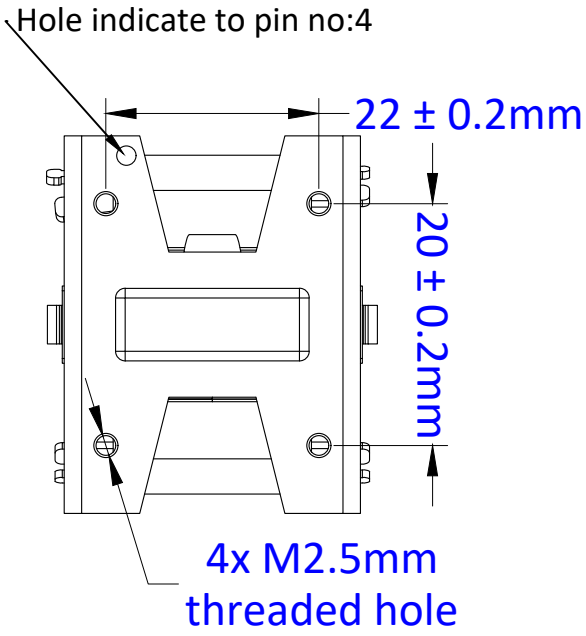
MECHANICAL DIMENSION





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ROHS COMPLIANT

TITLE : Mechanical Diagram					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 98055	
					REV: A	DATE: 12-07-2023	SHEET: 2 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

ELECTRICAL SPECIFICATION

1.Voltage given at the primary windings of the transformer				
Mains rated voltage V. across terminals 1& 3	Voltage across			Tolerance %
	1-1a	2-3	3-4	
40V at 400Hz	1.2V	2.5V	2.5V	1% of mains Nominal voltage

2.Secondary winding voltage in open circuit condition						
Open circuit current A (Max)	Secondary winding Voltage					
	Tolerance ±3%				Tolerance ±10%	
	5-6	7-8	9-10	11-12	13-14	15-16
0.27	5.8	5.8	11.5	11.5	2.85	2.85

3.Secondary voltage & current in rated load current							Secondary Windings current A
Primary current A (Max)	Secondary Voltage						
	Tolerance +10%,-5%				Tolerance +14%,-10%		
	5-6	7-8	9-10	11-12	13-14	15-16	
0.47	5.12	5.09	10	10	2.5	2.5	0.34

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98055	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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ELECTRICAL SPECIFICATION

1.Insulation resistance : Across windings As well as between body & Windings :≥1000MΩ at 500VDC
2.Insulation strength :

Primary winding to body	:500V,50Hz
Primary to secondary winding	:500V,50Hz
Secondary winding & Body	:500V,50Hz
Across the Secondary windings	:500V,50Hz
3.Rated capacity VA	:12VA(Nom), 15VA(Max)
4.Primary winding voltage across 1&3	:38V(Min), 42V(Max)
5.Main frequency Hz	:380Hz (Min),1000Max
6.Temperature rise	:≤55°C
7.Part no	:TPP 37-40-400 (Equivalent to Russian transformer ТПП 37-40-400)

ENVIRONMENTAL TESTS :
The transformer will meet thermal & humidity requirements.

1.High operating temperature of medium	:85°±2°C
2.Low operating temperature of medium	:-60°C
3.Temperature variation of medium	:-60°C to +85°C
4.High relative humidity at temperature of medium 25°C	:98+0/-5%

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98055	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

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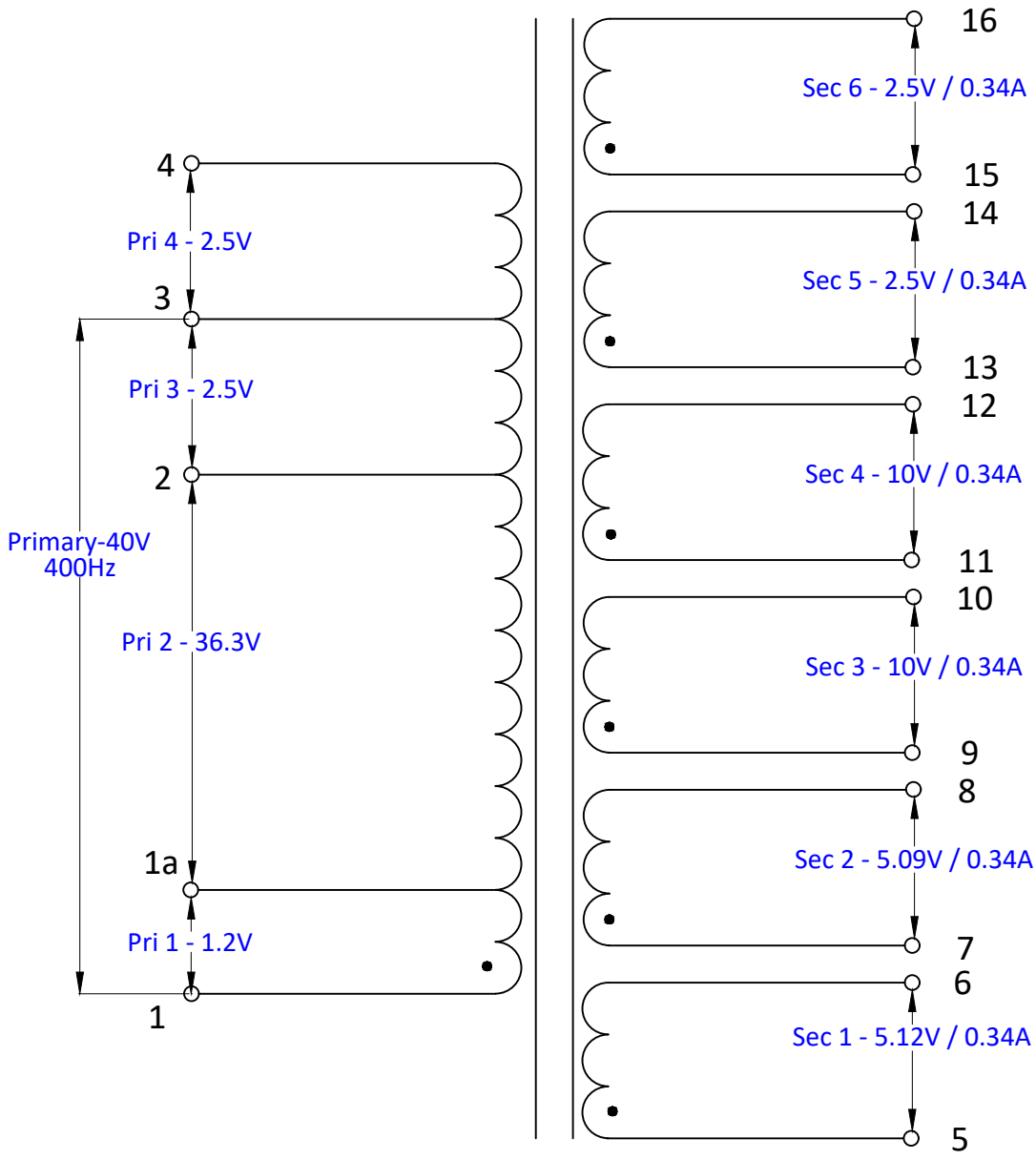
SCHEMATIC DIAGRAM



● Indicates the starting of Winding

ROHS COMPLIANT

TITLE : Schematic Diagram					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98055	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	1 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

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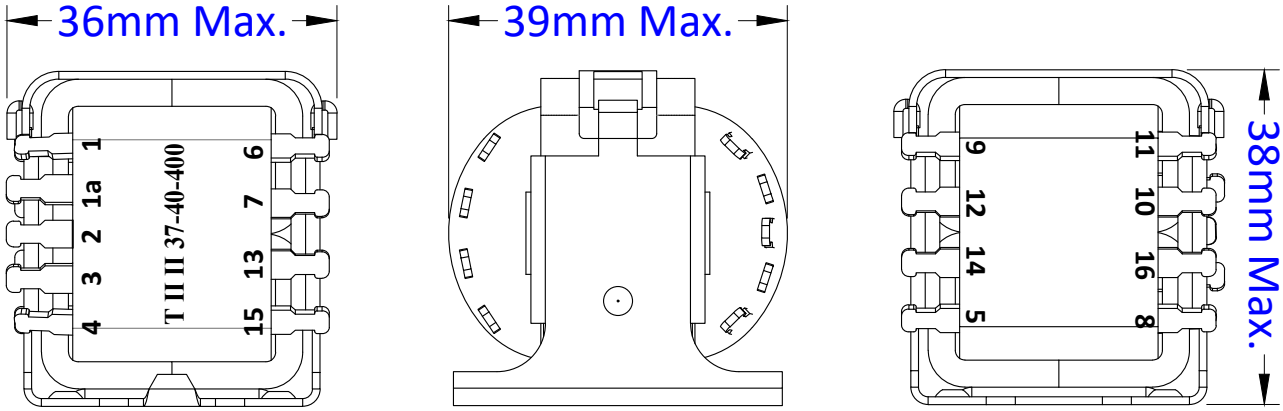
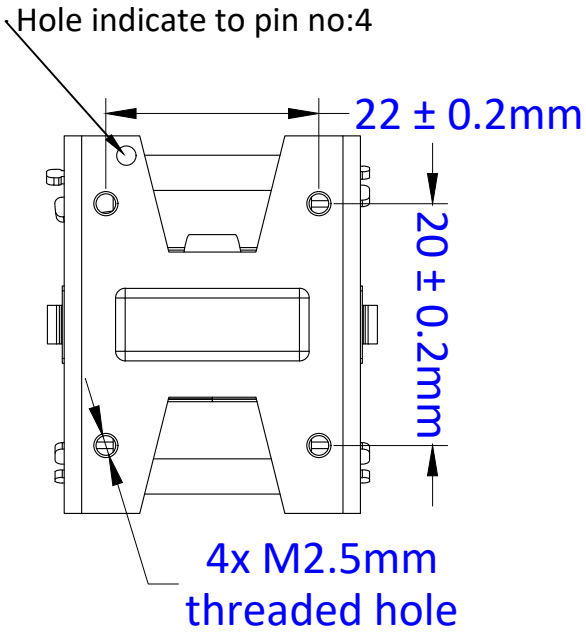
MECHANICAL DIMENSION





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ROHS COMPLIANT

TITLE : Mechanical Diagram					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 98055	
					REV: A	DATE: 12-07-2023	SHEET: 2 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

ELECTRICAL SPECIFICATION

1.Voltage given at the primary windings of the transformer				
Mains rated voltage V. across terminals 1& 3	Voltage across			Tolerance %
	1-1a	2-3	3-4	
40V at 400Hz	1.2V	2.5V	2.5V	1% of mains Nominal voltage

2.Secondary winding voltage in open circuit condition						
Open circuit current A (Max)	Secondary winding Voltage					
	Tolerance ±3%				Tolerance ±10%	
	5-6	7-8	9-10	11-12	13-14	15-16
0.27	5.8	5.8	11.5	11.5	2.85	2.85

3.Secondary voltage & current in rated load current							Secondary Windings current A
Primary current A (Max)	Secondary Voltage						
	Tolerance +10%,-5%				Tolerance +14%,-10%		
	5-6	7-8	9-10	11-12	13-14	15-16	
0.47	5.12	5.09	10	10	2.5	2.5	0.34

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98055	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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ELECTRICAL SPECIFICATION

1.Insulation resistance : Across windings As well as between body & Windings :≥1000MΩ at 500VDC
2.Insulation strength :

Primary winding to body	:500V,50Hz
Primary to secondary winding	:500V,50Hz
Secondary winding & Body	:500V,50Hz
Across the Secondary windings	:500V,50Hz
3.Rated capacity VA	:12VA(Nom), 15VA(Max)
4.Primary winding voltage across 1&3	:38V(Min), 42V(Max)
5.Main frequency Hz	:380Hz (Min),1000Max
6.Temperature rise	:≤55°C
7.Part no	:TPP 37-40-400 (Equivalent to Russian transformer ТПП 37-40-400)

ENVIRONMENTAL TESTS :
The transformer will meet thermal & humidity requirements.

1.High operating temperature of medium	:85°±2°C
2.Low operating temperature of medium	:-60°C
3.Temperature variation of medium	:-60°C to +85°C
4.High relative humidity at temperature of medium 25°C	:98+0/-5%

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98055	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

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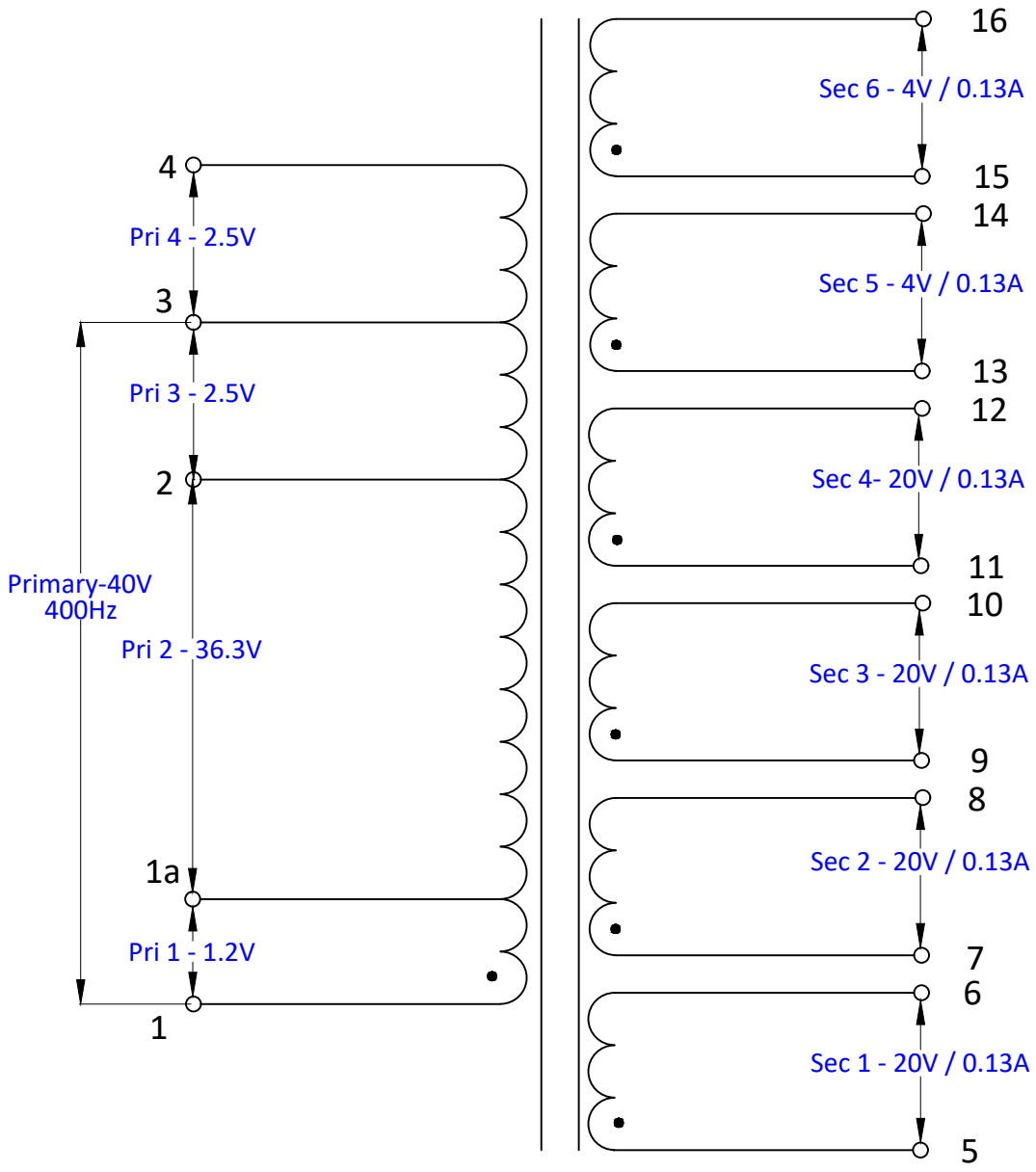
SCHEMATIC DIAGRAM



● Indicates the starting of Winding

ROHS COMPLIANT

TITLE : Schematic Diagram					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98057	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	1 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

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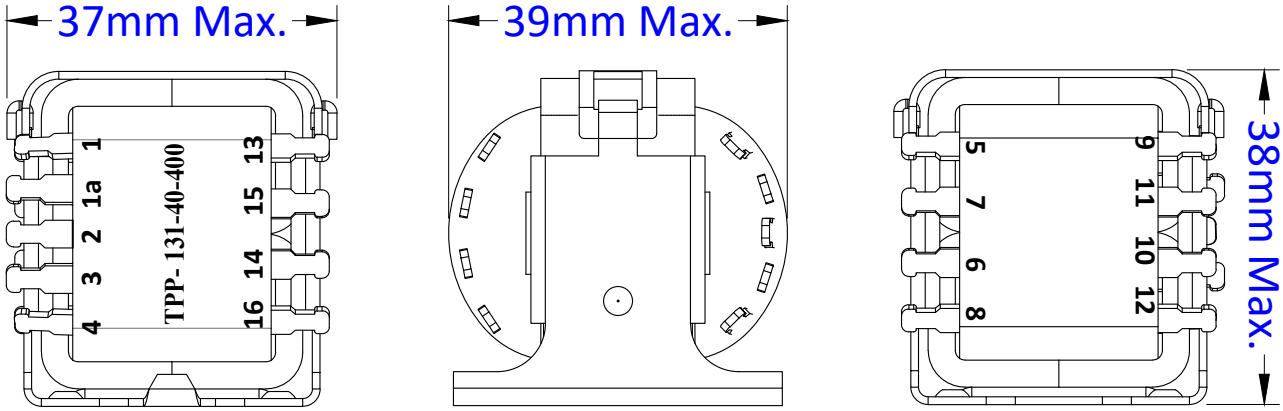
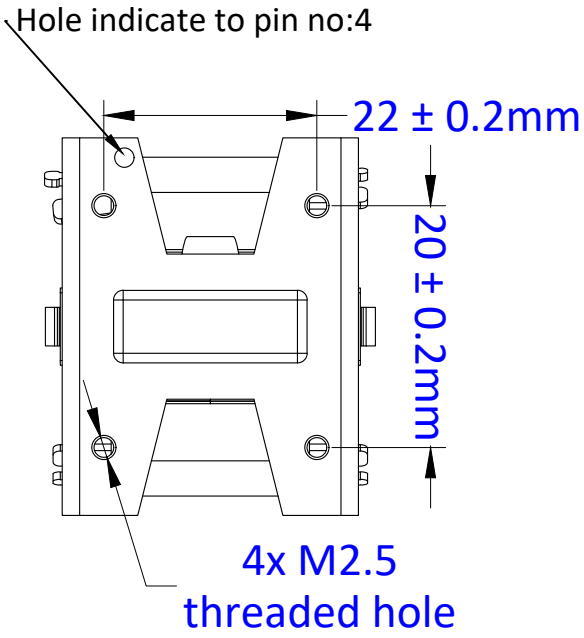
MECHANICAL DIMENSION





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ROHS COMPLIANT

TITLE : Mechanical Diagram					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 98057	
					REV: A	DATE: 12-07-2023	SHEET: 2 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

ELECTRICAL SPECIFICATION

1.Voltage given at the primary windings of the transformer				
Mains rated voltage V Across terminals 1& 3	Voltage across			Tolerance %
	1-1a	2-3	3-4	
40V at 400Hz	1.2V	2.5V	2.5V	1% of mains Nominal voltage

2.Secondary winding voltage in open circuit condition						
Open circuit current A (Max)	Secondary winding Voltage					
	Tolerance ±3%				Tolerance ±10%	
	5-6	7-8	9-10	11-12	13-14	15-16
0.27	22.5	22.6	22.6	22.8	4.56	4.56

3.Secondary voltage & current in rated load current							
Primary current A (Max)	Secondary Voltage						Secondary windings current A
	Tolerance +10%,-5%				Tolerance +14%,-10%		
	5-6	7-8	9-10	11-12	13-14	15-16	
0.47	20	20	20	20	4	4	0.13

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98057	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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ELECTRICAL SPECIFICATION

1.Insulation resistance : Across windings As well as between body & Windings :≥1000MΩ at 500VDC
2.Insulation strength :

Primary winding to body	:500V,50Hz
Primary to secondary winding	:500V,50Hz
Secondary winding & Body	:500V,50Hz
Across the Secondary windings	:500V,50Hz
3.Rated capacity VA	:12VA(Nom), 15VA(Max)
4.Primary winding voltage across 1&3	:38V(Min), 42V(Max)
5.Main frequency Hz	:380Hz (Min),1000Max
6.Temperature rise	:≤55°C
7.Part no	:TPP131-40-400 (Equivalent to Russian transformer ТПП131-40-400)

ENVIRONMENTAL TESTS :

The transformer will meet thermal & humidity requirements.

1.High operating temperature of medium	:85°±2°C
2.Low operating temperature of medium	:-60°C
3.Temperature variation of medium	:-60°C to +85°C
4.High relative humidity at temperature of medium 25°C	:98+0/-5%

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 98057	
					REV: A	DATE: 12-07-2023	SHEET: 3 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

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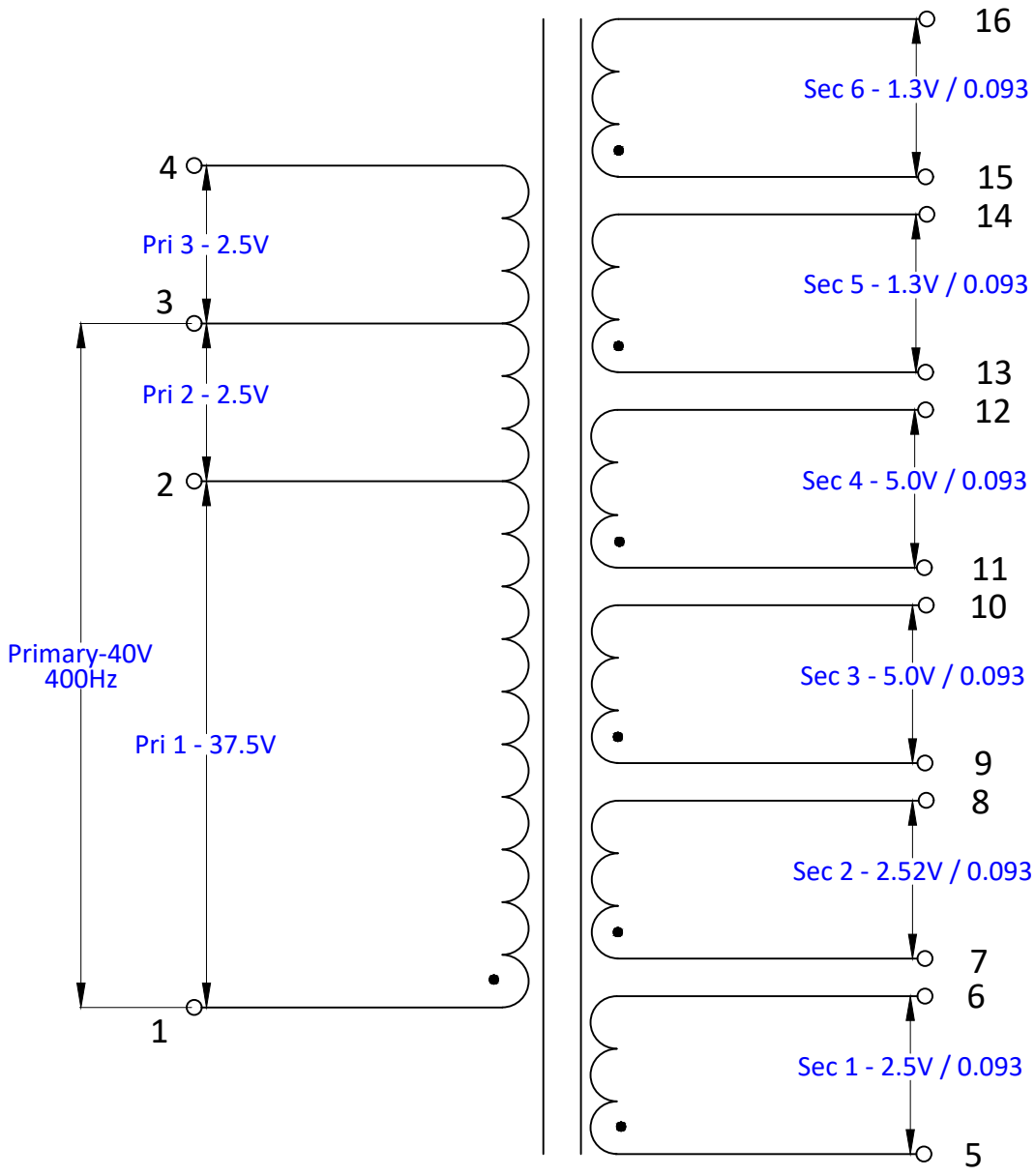
SCHEMATIC DIAGRAM



● Indicates the starting of Winding

ROHS COMPLIANT

TITLE : Schematic Diagram					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98058	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	1 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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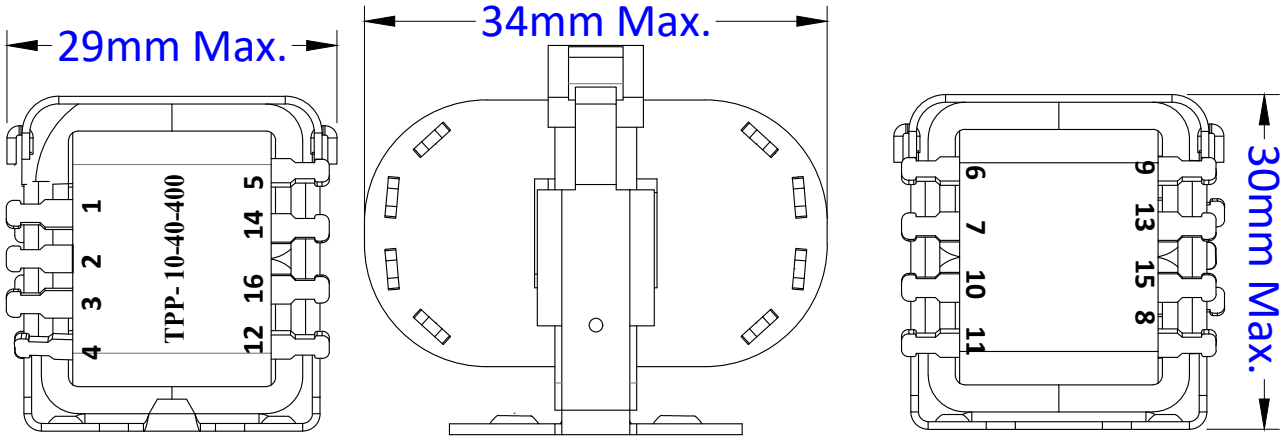
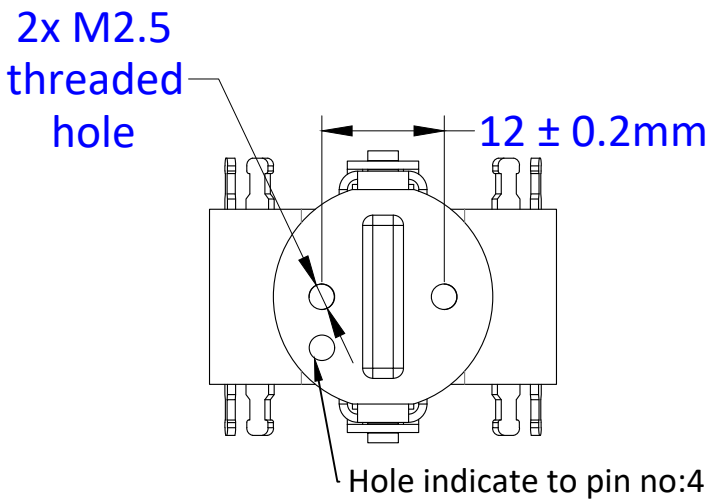
MECHANICAL DIMENSION





ROHS COMPLIANT

TITLE : Mechanical Diagram					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 98058	
					REV: A	DATE: 12-07-2023	SHEET: 2 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

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ELECTRICAL SPECIFICATION

1.Voltage given at the primary windings of the transformer			
Mains rated voltage V. across terminals 1& 3	Voltage across		Tolerance %
	2-3	3-4	
40V at 400Hz	2.5V	2.5V	1% of mains Nominal voltage

2.Secondary winding voltage in open circuit condition						
Open circuit current A (Max)	Secondary winding Voltage					
	Tolerance ±3%				Tolerance ±10%	
	5-6	7-8	9-10	11-12	13-14	15-16
0.10	2.93	2.96	5.93	5.97	1.52	1.52

3.Secondary voltage & current in rated load current							
Primary current A (Max)	Secondary Voltage						Secondary windings Current A
	Tolerance +10%,-5%				Tolerance +14%,-10%		
	5-6	7-8	9-10	11-12	13-14	15-16	
0.12	2.5	2.52	5.0	5.0	1.3	1.3	0.093

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Transformer		
					CUSTOMER PART NO	SVM PART CODE	
					-	98058	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN -	CHECKED -	APPROVED -

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Deliveries to be only as per the approved sample. Any change in tool (making, replacement) and material only with prior approval.

1.Insulation resistance : Across windings As well as between body & Windings :≥1000MΩ at 500VDC
2.Insulation strength :

Primary winding to body	:500V,50Hz
Primary to secondary winding	:500V,50Hz
Secondary winding & Body	:500V,50Hz
Across the Secondary windings	:500V,50Hz
3.Rated capacity VA	:1.65VA(Nom), 3.5VA(Max)
4.Primary winding voltage across 1&3	:38V(Min), 42V(Max)
5.Main frequency Hz	:380Hz (Min),1000Max
6.Temperature rise	:≤55°C
7.Part no	:TPP 10-40-400 (Equivalent to Russian transformer ТПП 10-40-400)

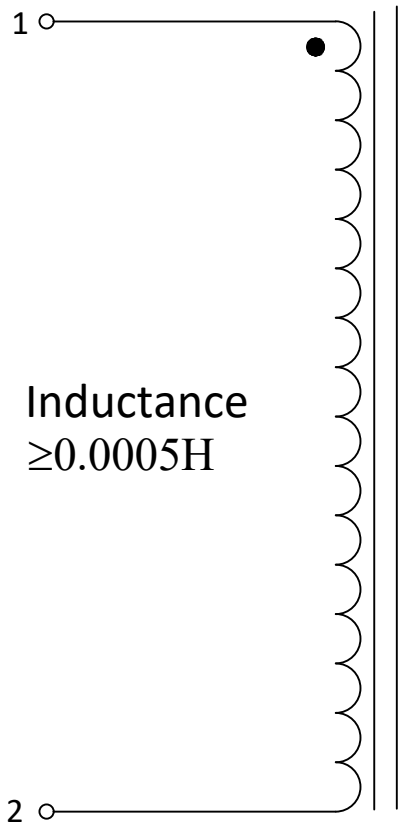
ENVIRONMENTAL TESTS :
The transformer will meet thermal & humidity requirements.

1.High operating temperature of medium	:85°±2°C
2.Low operating temperature of medium	:-60°C
3.Temperature variation of medium	:-60°C to +85°C
4.High relative humidity at temperature of medium 25°C	:98+0/-5%

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC: Transformer		
					CUSTOMER PART NO: -	SVM PART CODE: 98058	
					REV: A	DATE: 12-07-2023	SHEET: 3 of 3
	A		12-07-2023	Initial Release			
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN: -	CHECKED: -	APPROVED: -

SCHEMATIC DIAGRAM



● Indicates the starting of Winding

ROHS COMPLIANT

TITLE : Schematic Diagram					PART DESC		
					Power inductor		
					CUSTOMER PART NO	SVM PART CODE	
					-	98056	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	1 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

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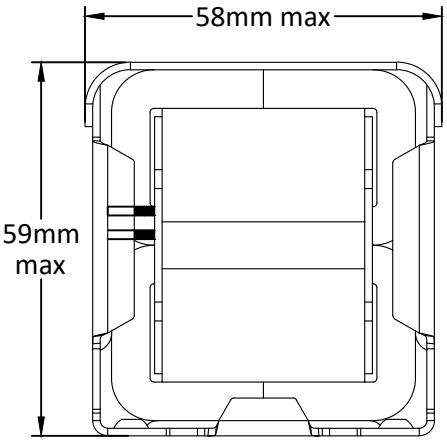
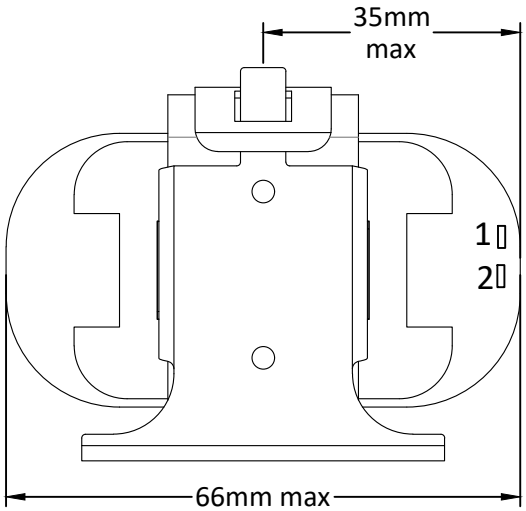
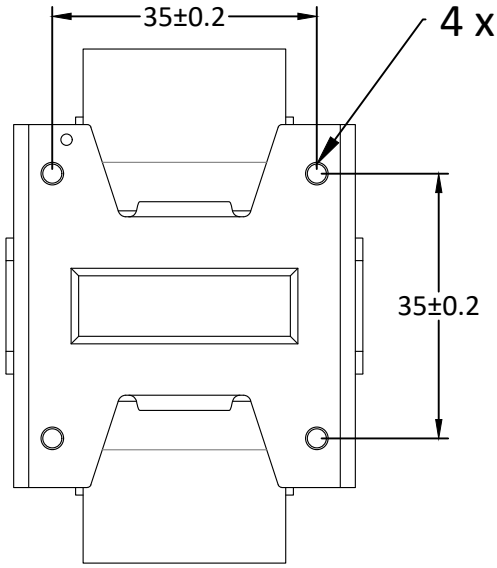
MECHANICAL DIMENSION







ROHS COMPLIANT

TITLE : Mechanical Diagram					PART DESC		
					Power inductor		
					CUSTOMER PART NO	SVM PART CODE	
					-	98056	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	2 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

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ELECTRICAL SPECIFICATION

1.Inductance value	:≥0.0005H
2.Rated current	:16.5ADC
3.Limiting value of AC voltage	:0.25VAC,400Hz
4.Limiting value of frequency	:1000Hz
5.D.C resistance at 20°C	:0.017Ω±20%
6.Weight	:550gram
7.Dielectric strength between winding & body	:2000V,50Hz
8.Insulation resistance between body & winding	:≥1000MΩ at 500VDC
9.Temperature rise	:≤55°C
10.Part no	:L56.0.0005.16.5
	(Equivalent to Russian inductor ЛI56.0.0005.16.5)

ENVIRONMENTAL TESTS :

The inductor will meet thermal & humidity requirements.

1.High operating temperature of medium	:85°±2°C
2.Low operating temperature of medium	:-60°C
3.Temperature variation of medium	:-60°C to +85°C
4.High relative humidity at temperature of medium 25°C	:98+0/-5%

ROHS COMPLIANT

TITLE : Electrical Specification					PART DESC		
					Power inductor		
					CUSTOMER PART NO	SVM PART CODE	
					-	98056	
					REV	DATE	SHEET
	A		12-07-2023	Initial Release	A	12-07-2023	3 of 3
CH LTR	ALT NO	SIGN	DATE	CHANGES		SCALE : NTS	
ALL DIMENSIONS ARE IN mm.				GENERAL TOLERANCE ± 0.05 mm UNLESS OTHERWISE SPECIFIED		SIZE : A4	
svm CHENNAI					DRAWN	CHECKED	APPROVED
					-	-	-

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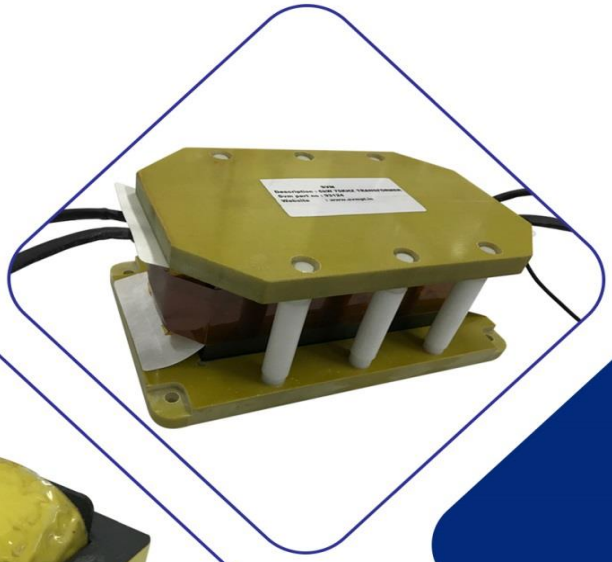
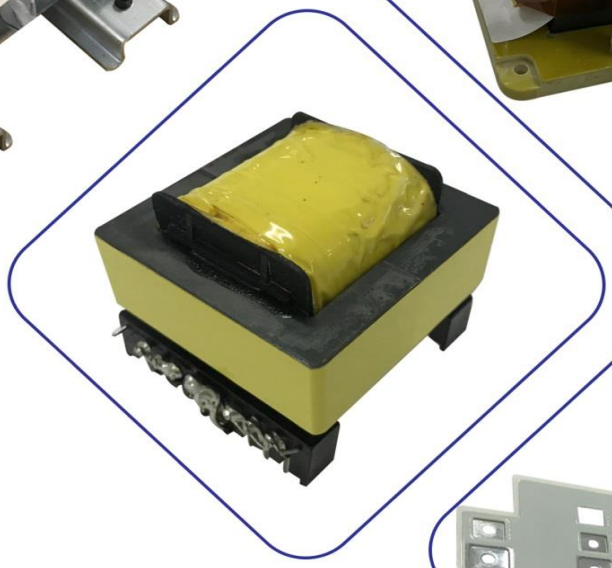
Deliveries to be only as per the approved sample. Any change in tool (making, replacement) and material only with prior approval.

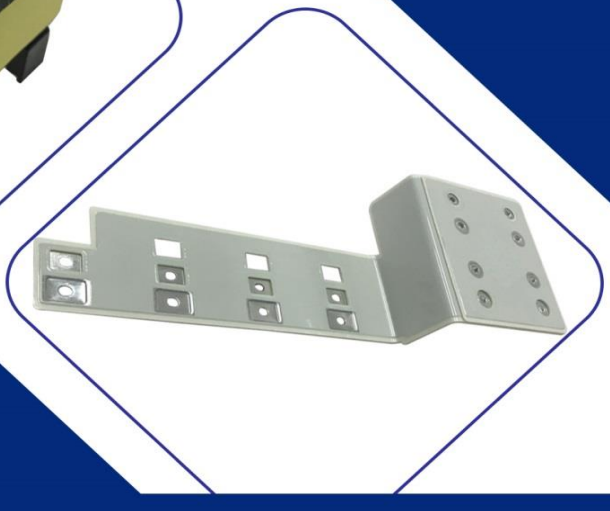
EXXELIA
Powering Performance

svm

An ISO 9001:2015 / 14001:2015 Certified Company







Smart Solutions For Your Critical Magnetics

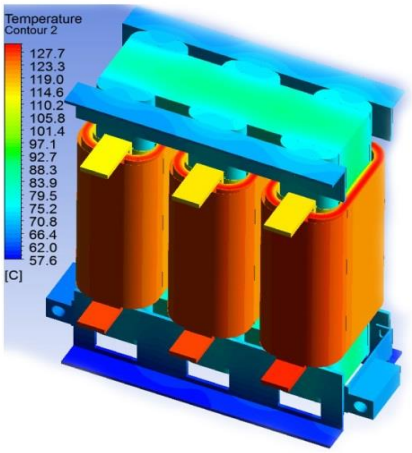
About SVM:

- Established in 1989, 30 years old company experienced in Design, Develop and Manufacture of Coils and Transformers for both High Frequency and Low frequency applications.
- SVM has the state of art manufacturing facilities to meet varied customer needs supported by well experienced Design and Manufacturing teams with strong vertical integration.
- Largest manufacturer of coils and transformers in India from low, mid to high volume. Capacity in excess of 10 Million numbers per Month.
- Product Application support, Rapid product development and sample delivery.
- Serving its customers across various fields from Power, Lighting, Medical electronics, Electric Vehicle, Automobile, Communications and other Electronic applications.

Design Solution:

- The Team at SVM can Engineer your ideas and convert them into End Use Components
- Design and Manufacture a wide range of Custom Magnetics for Various Application to meet Lower Leakage Inductance, Low Capacitance & High dielectric with stand voltage.
- Expertise in MATLAB, FEMM Modelling and Thermal Simulation of Magnetic components
- Vast Knowledge Base - Engineers with 20 Years of average Experience handled more than 300 critical Projects

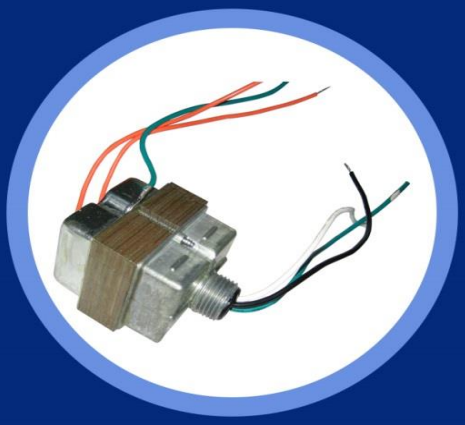
Product Line of Magnetic components includes:



- High Frequency Transformers (High Voltage and Low Voltage)
- Planar Magnetics
- Inductors (High frequency High Current, Air core Inductor)
- Reactors and Water Cooled Inductor,
- Chokes (EMI/EMC Chokes, CMC, DMC),
- SMPS Transformers,
- Linear Power Transformer,
- Current Transformers (Conventional and Hall Effect Current Transformers),
- Bus bars (Laminated, Powder Coated and Molded Bus bars)

Vertically Integrated Facility:

- Design of Bobbins, injection molds, manufacture of Bobbins in Thermoset (Phenolic) and Thermo Plastic materials from conventional to high performance grades.
- In house Litz Wire Manufacturing Facility - both Round Litz and Rectangular Type 8 litz for captive consumption
- In house tool room for Precision machining of plastics and metals for rigid mounting.
- In house Lamination Stamping and Sheet metal fabrication to meet custom design of magnetics
- Design and manufacture of packaging materials to meet customer specific packaging requirements to suit transport through road or air or ocean



Manufacturing Facility:

- ✯ Multi spindle CNC Winding Machines
- ✯ Automatic Test equipment's (ATE)
- ✯ Copper Foil Winding Machines
- ✯ Vacuum Impregnation plant
- ✯ Automatic Pressure Gelation Machine (Resin casting)

Test Facility:

- ✯ Partial Discharge Test up to 100kV AC
- ✯ Load Test up to 50kVA (50HZ operating frequency)
- ✯ Dielectric Strength Test both AC and DC
- ✯ Precision LCR Magnetic Analyzer for measuring Inductance, Impedance, Capacitance, and AC Resistance
- ✯ DC Bias Test up for Inductors
- ✯ Temperature Data Logger

Quality:

- ✯ SVM is an ISO 9001:2015, ISO 14001:2015 Certified Organization
- ✯ SVM Pvt Ltd is committed to provide its Customers Right Quality Products, On-time delivery and ever improving levels of Satisfaction through "Continual improvement"

UL File No: E251904

- ✯ Class 130 (B) coil and transformer insulation systems designated CIS.04, SIS-130
- ✯ Class 155 (F) electrical insulation systems designated SIS-155- 1

Safety and Regulatory Standards

- ✯ IEC 60601-1, UL 60601, ES 60601-1:2005
- ✯ IEC 61558-2- 13, IEC 61558-2- 4
- ✯ UL 5085-1, UL5085-2

Reliability Standards

- ✯ IEC62211 Level B (Vibration test, Drop test, Humidity test, Solder-ability test, Temperature cycle test, Continuous Vibration test)
- ✯ Meets ROHS, REACH, Packaging Regulations, 3TG-Conflict Minerals Compliance Requirements
- ✯ SVM is the registered member in BOMcheck for Regulatory Compliance Declarations

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