



YADOOTEK

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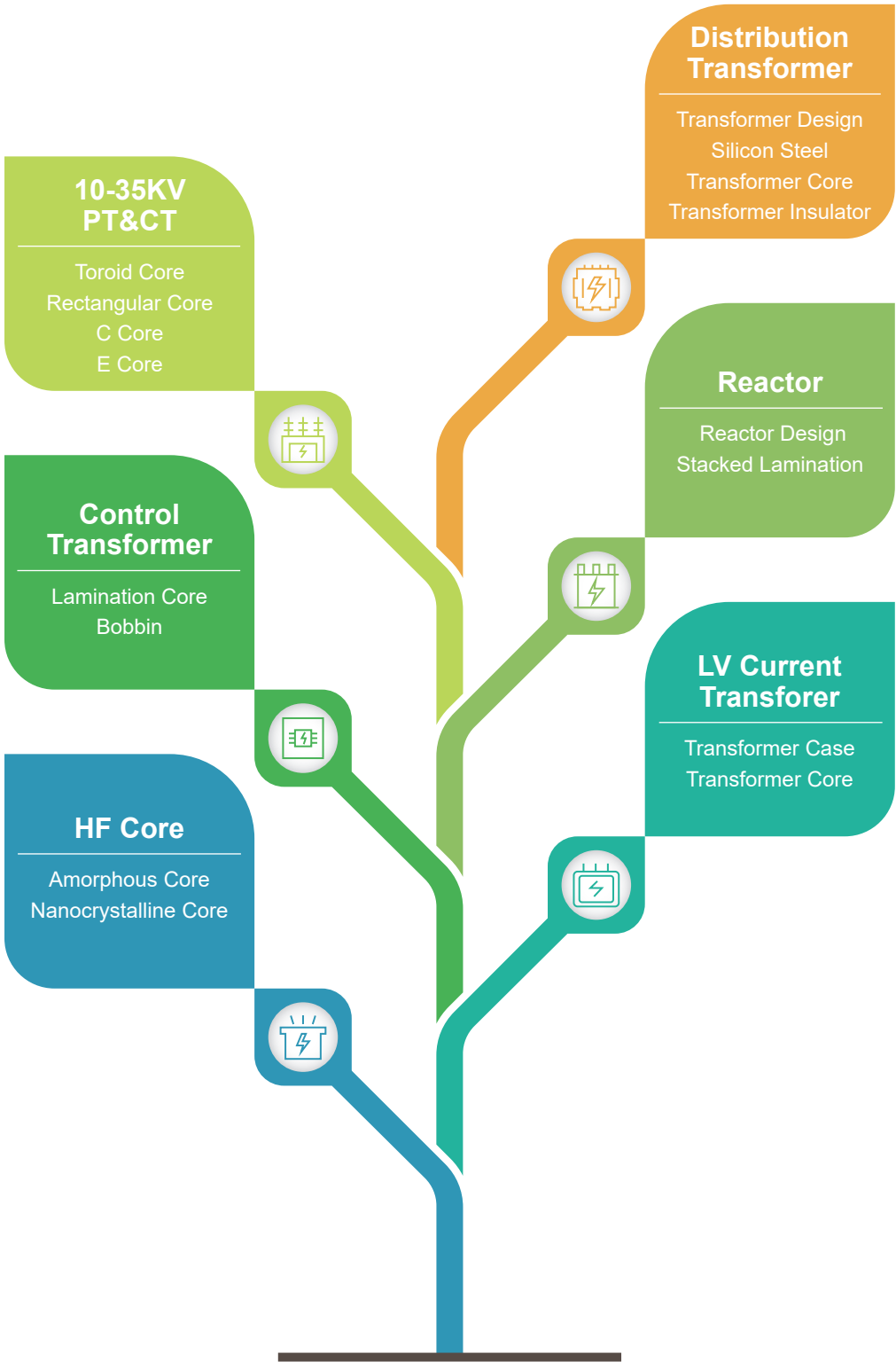
YadooTEK is a brand of Wuxi Yadoo Electromechanical Co.,Ltd, under which we are committed to providing the highest quality products and the most professional supply solutions to manufacturers of distribution transformers, reactors, transformers, current sensors, industrial control transformers and other electromagnetic induction components.

Our products and services can be found in various applications and main industrial countires,including electricity,electroni cs,automatic industry,railway,new energy,electric vehicles,medical devices and aerospace.

Because we are deeply involved in the entire process of customer product development, we have a deep understanding of the core concerns of customers in various industries, and have accumulated rich experience in handling possible risks in the product development process.Besides providing customers soft magnetic cores to meet their basic demand,we are now invited by more and more customers to provide suggestions and solutions for their plant construction,market development, product development, cost control and other key aspects.

The company was founded by a group of enthusiastic engineers,they are experts on material,mechanism,electrical system and lean manufacturing.While it still has its roots deep in the electricity soil, it also operates in the emerging market like EV,ESS and Industry 4.0.

Besides East Asia, we also have many excellent customers in Southeast Asia,Europe Union,North America and South America. Our headquarter is located in Wuxi (China), with four manufacturing sites in Wuxi (China),Xuzhou (China) and Huanggang (China),two sales representatives in Ho Chi Minh (Vietnam) and Bangkok (Thailand).

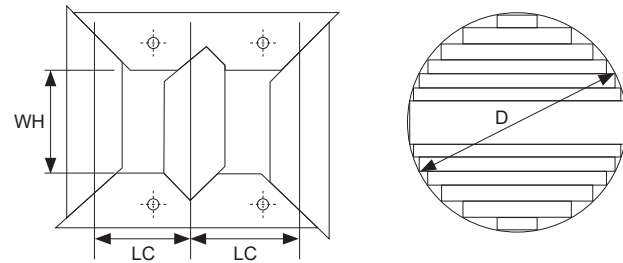


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Step-Lap Mitred Cores

Drawing(mm)



All mitred cores are tested under YadooTEK or customers' test processes.

Advantages

- Improved Perneability
- Reduced Magnetic Flux Losses
- Enhanced Electromagnetic Compatibility (EMC)
- Increased Stability
- Noise Reducation
- Size and Weight Optimization

Mitred Laminations

Fully mitred cores are made by adding a notch on the yoke, but this incurs a degree of waste.

Step Lap mitred cores allow:

- The flux to jump the gap in the lamination without any adverse effect on losses.
- The step overlap can be controlled depending on the performance required.

The usual type of cores available can be ordered i.e.

- Single phase shell type
- Single phase core type
- Three phase Evans design
- Three phase 5 limb

These cores can be stacked according to customers' drawings.

Core clamps are manufactured as detailed drawings provided by customers.

When ordering please share us the following details:

- Type: Single or Three phase
- Core Circle Diameter: D (mm)
- Leg Centres: LC (mm)
- Window Height: WH (mm)
- Stacking: If required
- Required losses at Specific Flux Density
- Oil or Dry Type

Cut - to Length Lamination Strips

YadooTEK offers cut-to-length silicon steel strips for single and three-phase applications, ranging varies from 10KVA to 80MVA.

Both GOSS and NOSS can be used, while the cut available is square or mitred. Holes can also be punched. YadooTEK supplies various forms of cut-to-length lamination strips as shown below.



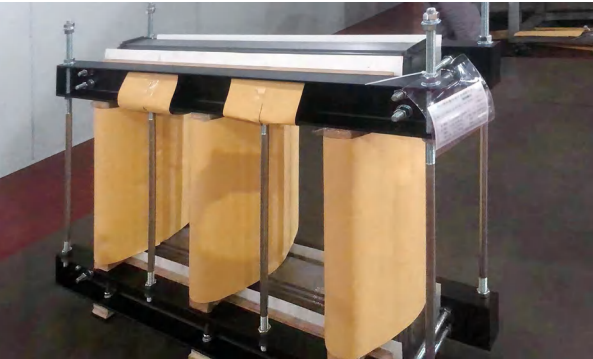
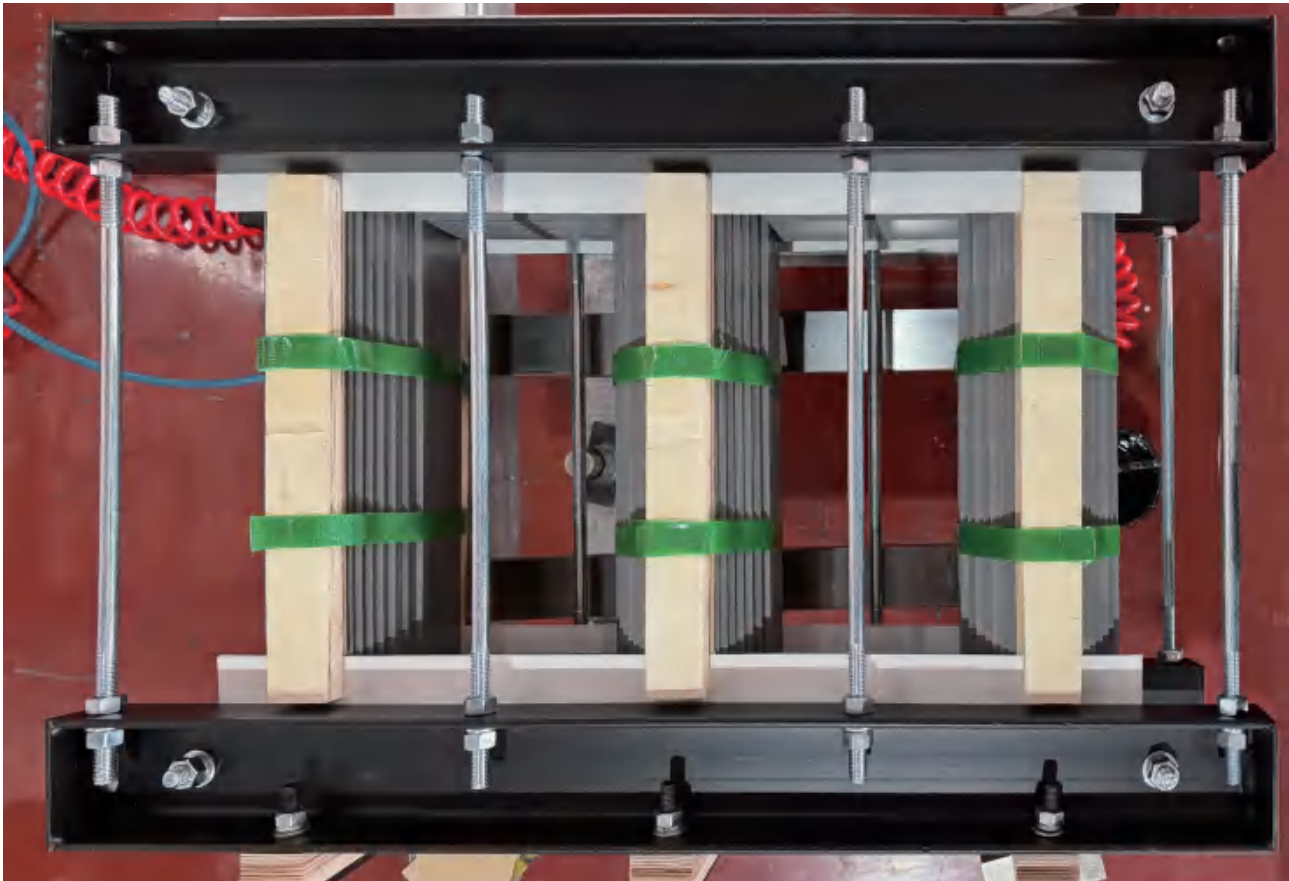
Lamination Strips Details

- Maximum Width of Sheet 1000mm
- Maximum Length of Sheet 6000mm
- Stacking Mode Automatic
- Angle Accuracy <0.005°
- Length Accuracy L≤2500mm,+0.1mm,L>2500mm±0.2mm



Mitred Laminations Assembly

- Maximum Weight of Automatically Stacked Core 80T
- Maximum Weight of Manually Stacked Core 200T
- Gap Limit at the Joint <0.5mm
- Window Height Precision ±0.2mm
- Window Width Precision ±0.2mm



Slitting Line



Capacity

Max Steel Weight :8000Kg
Max Steel Width:1250mm
Parallelism error:0.05mm/m
Burr:≤0.02mm
Power:45kW
Speed:10-60m/min

Materials

GOSS and NOSS from Baosteel, Shougang Steel and other brand manufacturers.
Strip Width:5mm-300mm
Steel Coil Inner Diameter: 500mm
Steel Thickness:0.2,0.23,0.27,0.3,0.35mm



Background

Slitting is the first process during transformer core manufacturing. Whether the edges of the strip are neat and whether the burrs are detailed directly affects important indicators such as iron loss and temperature rise of the core. Production team in YadooTEK are experienced in slitting GOSS and NOSS, providing quality strip steel for own core factory and external customers.



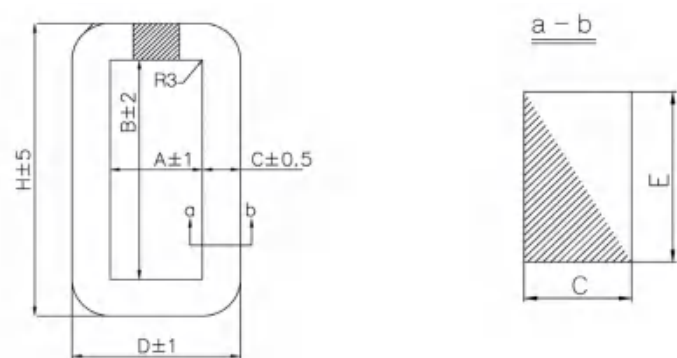
FeSi Distribution Gap Core



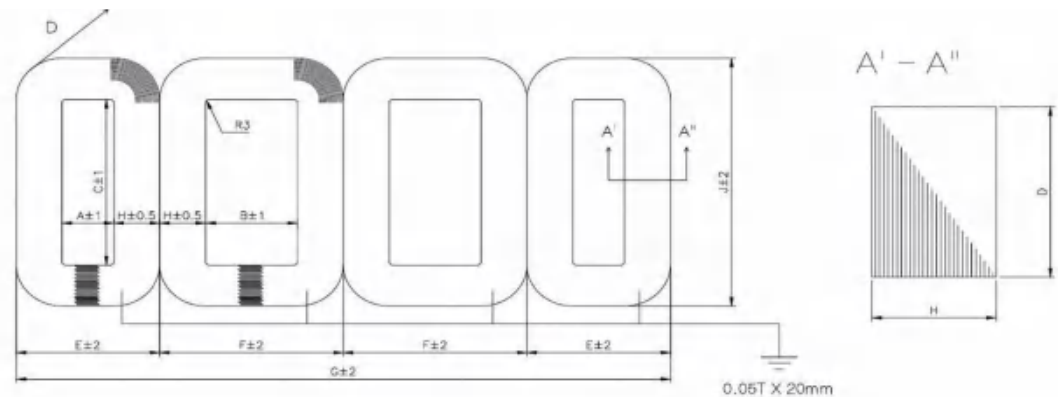
Benefits Of The Distribution Gap Core

- Improved Thermal Performance
- Ease of Maintenance and Repair
- Possibly Lower Manufacturing Costs
- Controlled Losses

Distribution Gap Core



Three Phase Configuration



Standard Specifications

	Min	Max
Strip Width	20mm	280mm
Window Width	40mm	Unlimited
Window Height	40mm	Unlimited
Max Core Size	Unlimited	

Standard Terminology
Strip Width A
Build-up B
Window Width C
Window Length D
Gap Overlap O
Radius R
Standard Tolerances
±0.3mm on all dimensions

Application

- Power Transmission and Distribution Industry
- Manufacturing of Power Electronics Equipment
- Motors and Electric Vehicles
- Energy Industry
- Industrial Applications

Distribution Gap Core Assembly

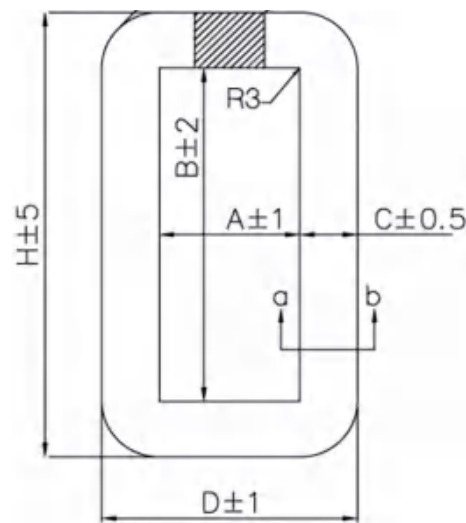
The general steps for installing a distribution gap core include preparation, placing the core horizontally, ensuring accurate positioning of the transformer coils, connecting the two halves of the core using appropriate fixing devices, grounding the metal components, providing necessary insulation measures, and conducting a comprehensive final inspection to ensure secure connections, intact insulation, and compliance with relevant safety and technical standards.



Amorphous Distribution Gap Core



Drawing(mm)



Magnetic Properties

- 1. Operating Flux Density:
 - Typical Single Phase: 1.3 - 1.4 Tesla.
 - Typical Three Phase: 1.25 - 1.35 Tesla.
- 2. Saturation:
 - Induction (T) as cast: 1.56.
- 3. No - load Core Loss and Exciting Power:
 - At the test condition of 1.3T, 50Hz, specific loss $\leq 0.18\text{W/kg}$; specific exciting power $\leq 0.45\text{VA/kg}$.
 - At the test condition of 1.3T, 50Hz, specific loss $\leq 0.20\text{W/kg}$; specific exciting power $\leq 0.60\text{VA/kg}$.
 - The no-load loss and exciting power of the three phase - Evans core will be approximately 25% higher and will vary according to specific design.

Physical Properties

- Core Space Factor:
 - Guaranteed Minimum: 86%.
- Density:
 - g/cm³ as cast: 7.19.
- Core Design Standards:
 - Ribbon width (A): 142mm, 170mm, 213mm.
 - Core build-up (B): 0~300mm; maximum.
 - Window width (C): 55~1500mm; tolerance: +3/-0mm.
 - Window height (D): 180~2000mm; tolerance: +3/-0mm.
 - Joint build (G): B x 1.10~1.20mm.
 - Window radius (R): 6.4 +/-1.5mm.
 - Outermost layer shearing length: not more than 100000mm.
 - Continuous service temperature: 150°C.
- Core surface is coated in Epoxy Resin, not more than 2mm thick per side, (Dimension (H)) Ribbon width +4mm.

Amorphous Distribution Gap Core

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 - Typical Three Phase: 1.25 - 1.35 Tesla
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Application

- Reactor core for PV inverter
- Filter reactor of HF high power switching power supply
- Audio Transformer
- Major transformer of UPS

Features

- High saturate induction intensity-reduce core volume
- Rectangular cutting structure-easy to assemble the coil
- Magnetic core segmentation-excellent resistance to DC bias saturation
- Low loss-reduce temperature rise
- Good stability-stable work at -40 C -130 C
- Permeability: 1000-1500 Gs/Oe

Unicore

Benefits Of The Unicores

- Flexibility of design
- Unrestricted core size
- Smaller and lighter
- Lower watt loss
- Lower exciting current
- Better regulation
- Less winding time needed
- Quicker to assemble
- Major cost savings

Flux Density vs Watt Loss at 50Hz

Tesla	W/kg Annealed
1.5	0.8
1.6	0.99
1.7	1.18
1.8	1.5
1.9	2.22

NOTE: Material used was an M5 grade with the test certificate reading 1.20W17/50.

Superior Performance

The performance of the Unicore is such that full retention of the magnetic properties of the parent material is possible.

This is because:

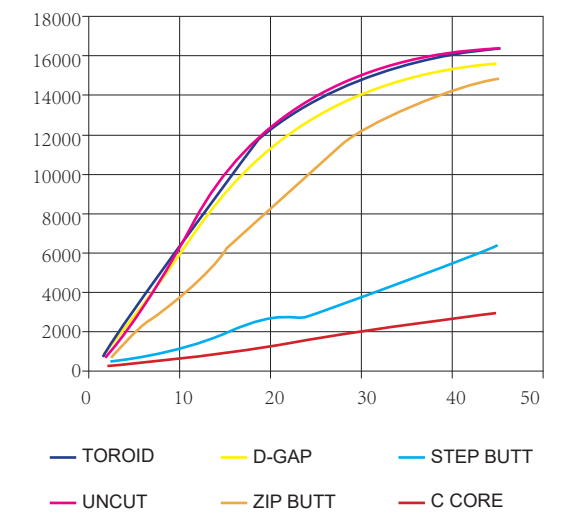
- the exciting field is in parallel with the strip
- the Distributed Gap Unicore effectively has no gaps.
- the steel suffers no more degradation after annealing.

The performance of this core allows the designer to run his transformer at peak "revs" i.e. at 1.8 Tesla. However, 1.7 Tesla is preferred for normal design with over-voltage requirements.

Typically, a Unicore in M5 material will have a loss of 1.24 W / kg at 1.7 Tesla 50Hz or 0.73 W / lb. at 1.7 Tesla 60Hz.

In other words, the graphs given by the steel manufacturers can be used for the results obtained by an annealed Unicore.

Flux Density v AT/m



In certain cases, where annealing is too costly or unobtainable, one can design without it. By adding 10% more cross-section to this Unicore, one can achieve the same results as that of the annealed core.

This graph shows the comparisons between various Unicore styles and conventional C Cores and Toroids. A series of cores of identical mean magnetic path length were produced under controlled conditions from the same coil.

- Uncut Unicores overlay conventional Toroidal cores.
- Distributed Gap Unicores are very close to Toroidal cores in characteristics.
- Zip Butt Unicores are better than Step Butt Unicores.

Therefore, Unicore has specific advantages in high-energy savings, material saving and production efficiency. This makes the Unicore ideal for Distribution Transformers, Solar Inverters and Uninterruptable Power Supplies.

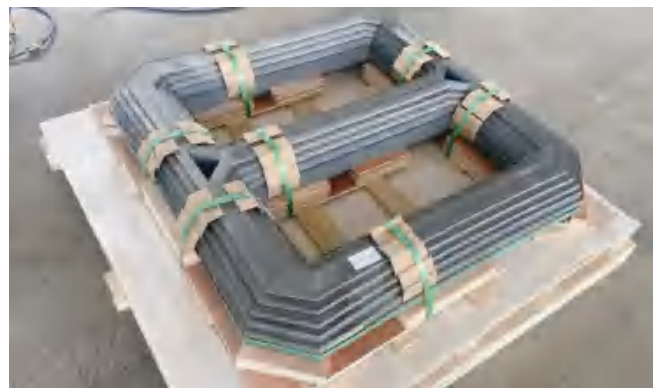
Design Parameters

The most economical dimensions for a Unicore are similar to Scrapless Laminations. Where the Scrapless Lamination has physical ratios of 3:2:1 (3 = Window Length, 2 = Tongue Width, 1 = Window Width), the Unicore is most economical at a 3:1:3 ratio, which is essentially the same.

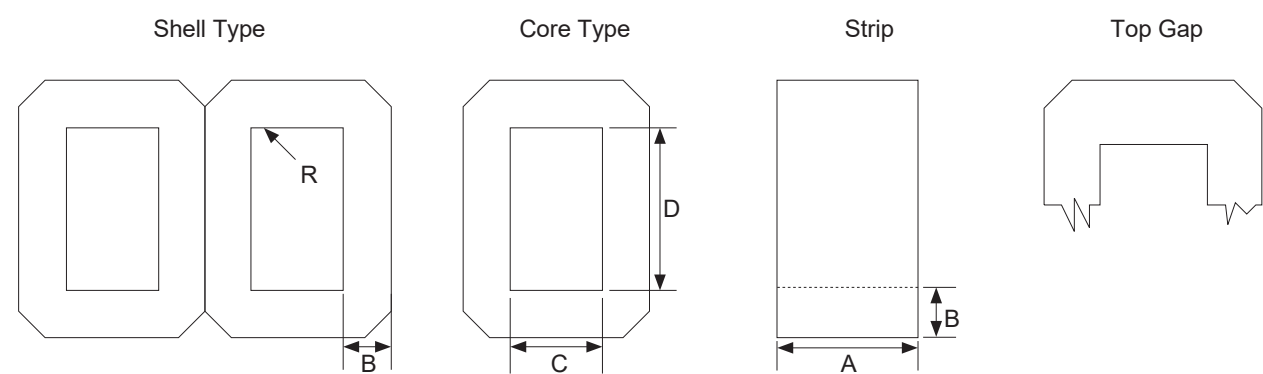
To understand these ratios, it is necessary to visualise the Scrapless Lamination cut longitudinally down the centre tongue. This will give two rectangular cores similar to a C Core. The ratio would be 3:1 (3 = Window Length, 1 = Window Width and Leg Width or Build-up in a C Core). The only dimension missing is the Lamination stack (or strip width in a C Core), which is variable. If the stack is fixed to the most economical size, we get a third dimension to our ratio.

When considering the most economical strip width for producing a Unicore, we find that it should equal the window length, hence 3:1:3. This ratio makes an economical transformer of near-cubic shape with high core mass (low loss / kg) and low copper mass (high loss / kg). The low-loss core acts as a heat sink for the heat generated in the copper and there is a large core surface exposed to the copper with short transfer paths.

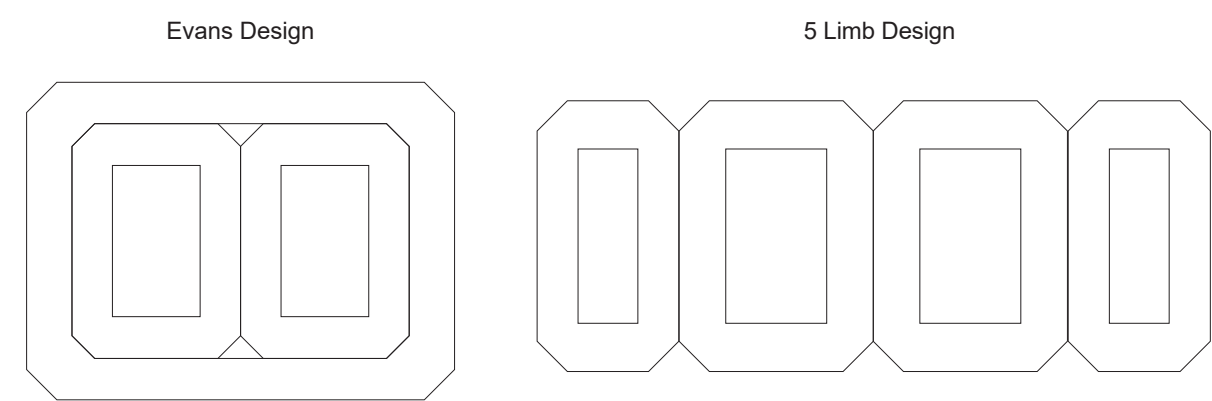
Note that the Unicore transformer generally has more core mass than a C Core or a Mitred Core, but lower copper mass. This is typical of a good Unicore design where, by increasing the low-loss core mass, it is possible to reduce the high loss copper mass. The result is a lighter, cheaper and more efficient transformer with better regulation.



Unicore Structure



Three Phase Configuration



Standard Specifications

	Min	Max
Strip Width	20mm	280mm
Window Width	40mm	Unlimited
Window Height	40mm	Unlimited
Max Core Size	Unlimited	

Standard Terminology
Strip Width A
Build-up B
Window Width C
Window Length D
Gap Overlap O
Radius R
Standard Tolerances
±0.3mm on all dimensions

Unicore Shapes

All Unicores come in conventional Rectangular or Cruciform shapes. Cruciform shapes can have a maximum of three steps in their construction, either in Single or in Three Phase. These shapes are available in 90°, 45° or 30° folds.

45° Folds
This is the preferred shape as it saves weight and is easier for the insertion of mounting screws.

Unicore Styles

- Single Cut Distributed Gap face
 - Single Cut Diverging Distributed Gap face
 - Single Cut Spiral-wound Overlapped Distributed Gap face
 - Single Cut Step Butt face
 - Double Cut Distributed Gap face (DUO-CORE)
- Please note that the above styles can be used in many permutations, for example:
- Single or Three Phase Unicores
 - 90°, 45° or 30° folds
 - Cuts along limb or yoke of Unicores
 - Chapters can be alternated on opposite sides
 - Number of chapters can be selected
 - Number of laminations per overlap can be selected e.g. Duo I, II or III
 - Lamination overlap distance can be selected

Unicore Assembly

Assembly time for a Unicore has been greatly reduced because ten or more laminations can be assembled at once, whether it is a Step Butt, Duo or a D-Gap Unicore. There is a special procedure for this assembly. The D-Gap Unicore is unwrapped chapter for chapter and then, starting from the smallest chapter, wrapped or inserted into the bobbin. The Duo-core is essentially a core in two halves inserted in the windings. Therefore, no extra space is required and this is the preferred core for the single phase Core type and three phase Evans design.

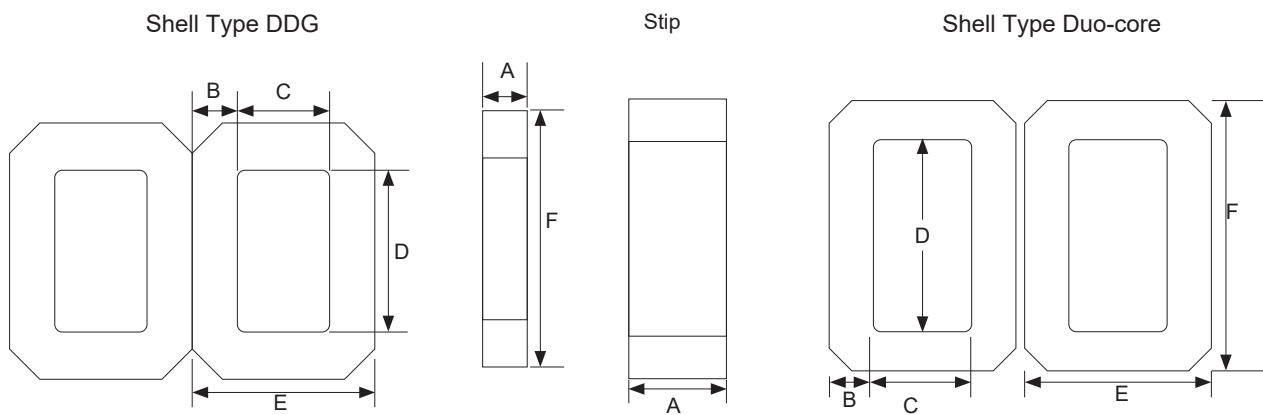
Unicores are supplied unbonded; therefore it is essential for the transformer manufacturer to impregnate the complete transformer after assembly. This has the effect of bonding the core laminations, bonding the winding and bonding the core to the winding for good heat transfer. This impregnation can be a simple hot dip into a suitable resin. Attention must be given to the correct procedure to ensure thorough resin impregnation and curing. Obviously impregnation of the transformer is not needed when it is oil cooled.

The use of normal light banding with the minimum of tension is recommended. In some cases where a special frame is used, banding is not required.

Single phase Unicore in GOSS

Although Unicores can be made in any size, we have designed a standard range of Unicores to suit existing E and I Lamination bobbins.

Drawing(mm)

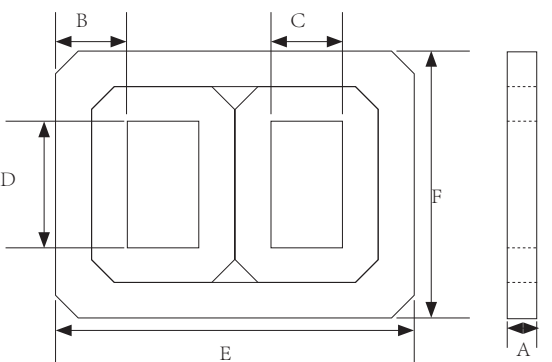


Main Technical Parameters (mm)

CODE or VA/Set	V/T at 1.7 Tesla	Nominal Dimensions(mm)						Nett Area/ Set (cm²)	Nominal Weight/Set (kg)
		A	B	C	D	E	F		
JC1000	0.717	40	25	35	90	85	140	19.00	5.09
JC1500	0.896	50	25	35	90	85	140	23.75	6.36
JC2000	1.076	60	25	35	90	85	140	28.50	7.63
JC2500	1.344	75	25	35	90	85	140	35.63	9.54
JC3000	1.742	90	27	35	90	89	144	46.17	12.64
JC4000	2.151	100	30	35	96	95	156	57.00	16.66
JC5000	2.151	100	30	40	105	100	165	57.00	17.88
JC6500	2.868	100	40	45	120	125	200	76.00	28.49
JC7500	3.227	100	45	45	120	135	210	85.50	33.36
JC10000	3.442	120	40	45	120	125	200	91.20	34.19
JC15000	3.585	100	50	60	180	160	280	95.00	49.42
JC20000	5.163	120	60	60	180	180	300	136.80	75.35
JC25000	5.163	120	60	70	210	190	330	136.80	83.72
JC30000	5.163	120	60	80	240	200	360	136.80	92.10
JC40000	7.027	140	70	80	240	220	380	186.20	131.04
JC50000	7.027	140	70	90	240	230	380	186.20	133.90

Three phase Unicore in GOSS

Drawing(mm)



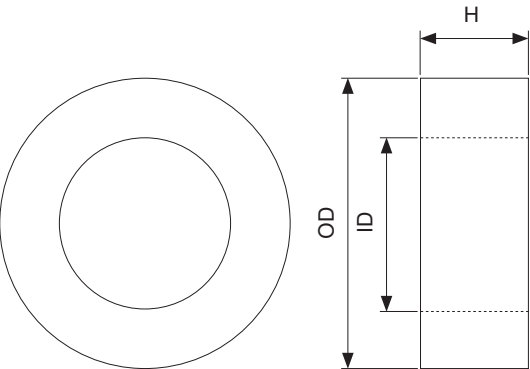
Tolerances (mm)

CODE or VA/Set	V/T at 1.7 Tesla	Nominal Dimensions(mm)						Nett Area/ Set (cm²)	Nominal Weight/Set (kg)
		A	B	C	D	E	F		
JE2000	0.645	60	30	40	95	170	155	17.10	8.18
JE3000	0.968	60	30	40	100	170	160	25.65	12.56
JE4000	1.076	100	30	45	100	180	160	28.50	14.39
JE5000	1.076	100	30	50	130	190	190	28.50	16.79
JE6500	1.255	100	35	50	140	205	210	33.25	21.11
JE7500	1.255	100	35	50	150	205	220	33.25	21.88
JE8000	1.613	100	45	50	150	235	240	42.75	30.09
JE10000	1.613	100	45	60	160	235	250	42.75	32.38
JE15000	2.044	100	57	60	180	291	294	54.15	46.48
JE20000	2.581	120	60	60	180	300	300	68.40	59.65
JE25000	2.581	120	60	70	210	320	330	68.40	66.45
JE30000	2.581	120	60	80	240	340	360	68.40	73.26
JE40000	3.514	140	70	80	240	370	380	93.10	103.98
JE50000	3.514	140	70	110	240	430	380	93.10	112.53
JE75000	4.034	150	75	120	320	465	470	106.88	154.53
JE100000	4.571	150	85	140	340	535	510	121.13	193.66

Toroidal Cores



Drawing(mm)



Main Technical Parameters (mm)

OD		ID		H
OD	ΔD	ID	Δd	ΔH
≤ 10	± 0.4	≤ 10	± 0.30	± 0.3
≤ 25	± 0.5	≤ 25	± 0.40	± 0.3
≤ 50	± 1.0	≤ 50	± 0.50	± 0.4
≤ 80	± 1.0	≤ 80	± 0.75	± 0.5
≤ 100	± 1.0	≤ 100	± 0.80	± 0.5
≤ 160	± 2.0	≤ 160	± 1.30	± 0.8
≤ 200	± 2.5	≤ 200	± 1.50	± 1.5
≤ 320	± 0.5	≤ 320	± 2.00	± 2.0
≤ 500	± 3.5	≤ 500	± 2.50	± 2.5
≤ 800	± 5.0	≤ 800	± 3.50	± 3.0
> 800	± 7.5	≤ 800	± 5.00	± 4.0

Strip Thickness And Stacking Factor

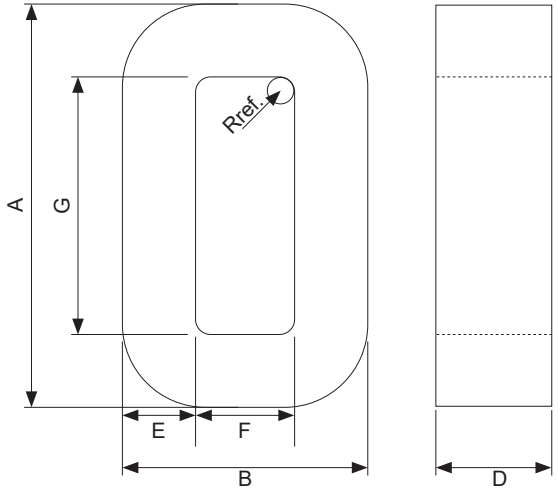
Thickess mm	Stacking factor
0.35	0.96
0.30	0.96
0.27	0.95
0.23	0.95
0.10	0.90
0.08	0.88
0.05	0.86



Rectangular Core



Drawing(mm)



Specification

Manufactures rectangular cores to various specifications in high permeability electrical steels.

This core with rectangular cross-section, which is wound by a continuous electrical steel strip, there is no break in the magnetic path.

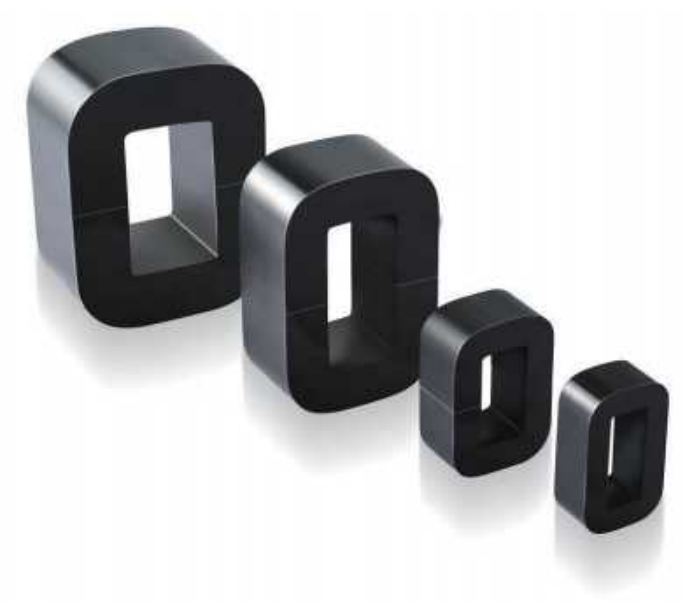
The rectangular cores are suitable for manufacturing current transformers and potential transformers ranging from 0.38kV to 330kV in electrical industry.

The cores with high permeability and linear fully meet the requirement of measuring current transformers with accuracy class 0.1, 0.2, 0.5, 1.3 and 5.

The cores can also meet requirements of protection current transformer with accuracy of 5P and 10P as well as that of transient current transformers.



C Core



Standard C Core

Manufactures a wide range of striound C cores to satisfy the demands of the electronic and electrical industries in the manufacture of transformers, chokes, reactors and magnetic amplifiers.

C-cores can be produced in standard ranges - Chinese CD- XCD- ED- XED-, British DEF 5139 HWR-, French UTE C93-325 FA-, German DIN 41309 SG-, all of which can be supplied to various electrical specifications.

C-cores can be manufactured outside the physical dimensions of the standard ranges for special applications. Customer designs are welcome.

0.35/0.30/0.27/0.23mm;0.10/0.08/0.05mm.
Available material:
0.35/0.30/0.27/0.23/0.10/0.08/0.05mm.

Electrical Guarantees

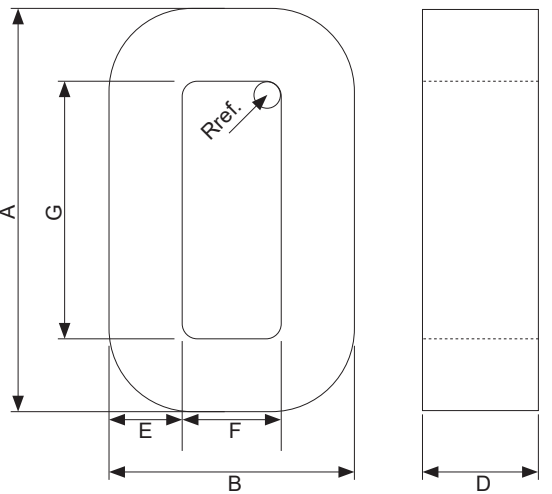
All cores, unless otherwise state, are individually tested to the standard guarantee specifications.

Special test conditions, when required, can be applied and guaranteed to suit customer's individual requirements.



C Core CD-series

Drawing(mm)



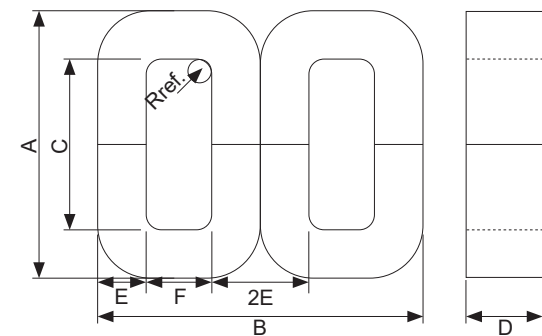
Main Technical Parameters (mm)

Code	Dimension(mm)									Flux path L(cm) min	Cross section k (cm²)		Weight Kg M		Approx V.A.	
	C min	F min	A max	B max	D min	D max	E min	E max	R max		0.3mm	0.1mm	0.3mm	0.1mm	50Hz	400Hz
CD6.5×12.5×8	8.0	8.0	23.0	22.4	12.3	12.9	6.3	6.90	1.5	5.07	-	0.747	-	0.029	-	9.69
CD6.5×12.5×10	10.0	-	25.0	-	-	-	-	-	-	5.47	-	-	-	0.031	-	12.6
CD6.5×12.5×12.5	12.5	-	27.5	-	-	-	-	-	-	5.90	-	-	-	0.034	-	16.6
CD6.5×12.5×16	16.0	-	31.0	-	-	-	-	-	-	6.67	-	-	-	0.038	-	20.4
CD8×12.5×12.5	12.5	10.0	30.5	27.4	12.3	12.9	7.8	8.45	1.5	6.84	-	0.920	-	0.048	-	25.8
CD8×12.5×16	16.0	-	34.0	-	-	-	-	-	-	7.54	-	-	-	0.053	-	33.3
CD8×12.5×20	20.0	-	38.0	-	-	-	-	-	-	8.34	-	-	-	0.059	-	42
CD8×12.5×25	25.0	-	43.0	-	-	-	-	-	-	9.54	-	-	-	0.066	-	51.4
CD10×12.5×20	20.0	12.5	42.0	34.0	12.3	12.9	9.8	10.40	1.5	9.47	1.2	1.150	0.087	0.083	2.4	56.6
CD10×12.5×25	25.0	-	47.0	-	-	-	-	-	-	10.50	-	-	0.096	0.092	3.4	71.7
CD10×12.5×32	32.0	-	54.0	-	-	-	-	-	-	11.90	-	-	0.109	0.105	4.9	91.2
CD10×12.5×40	40.0	-	63.0	-	-	-	-	-	-	13.50	-	-	0.124	0.119	6.67	112
CD12.5×16×25	25.0	16.0	54.0	42.7	15.8	16.4	12.2	13.00	2.0	11.90	1.92	1.840	0.175	0.168	10.7	119
CD12.5×16×32	32.0	-	61.0	-	-	-	-	-	-	13.30	-	-	0.195	0.187	14.7	148
CD12.5×16×40	40.0	-	69.0	-	-	-	-	-	-	14.90	-	-	0.219	0.210	19.6	181
CD12.5×16×50	50.0	-	79.0	-	-	-	-	-	-	16.90	-	-	0.248	0.238	25	221

C Core

ED-series

Drawing(mm)



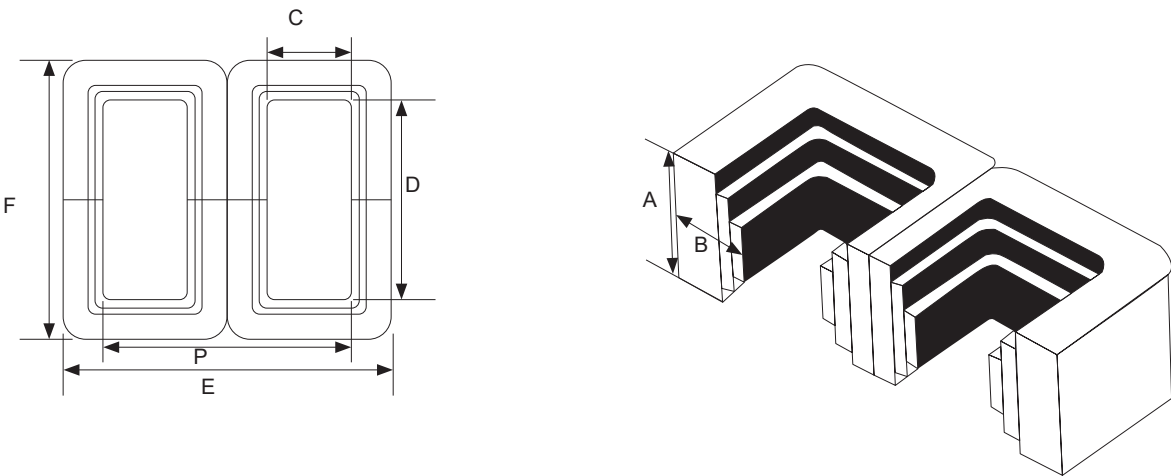
Main Technical Parameters (mm)

Code	Dimension(mm)										Flux path L(cm) min	Cross section		Weight Kg		Approx V.A.	
	C min	F min	A max	B max	D min	D max	E min	E max	R max	k (cm²)		M		0.3mm 50Hz	0.1mm 400Hz		
										0.3mm		0.1mm	0.3mm			0.1mm	
ED6×6.5	15	6	23	25.6	6.3	6.8	2.8	3.2	1.5	4.97	-	0.36	-	0.014	-	7.5	
ED6×8.0	-	-	-	-	7.8	8.3	-	-	-	-	-	0.44	-	0.017	-	9.5	
ED6×10.0	-	-	-	-	9.8	10.3	-	-	-	-	-	0.55	-	0.021	-	12	
ED6×12.5	-	-	-	-	12.3	12.9	-	-	-	-	-	0.69	-	0.026	-	15.4	
ED8×8.0	20	8	30	33.8	7.8	8.3	3.8	4.2	1.5	6.68	-	0.59	-	0.030	-	19	
ED8×10.0	-	-	-	-	9.8	10.3	-	-	-	-	-	0.73	-	0.038	-	23.5	
ED8×12.5	-	-	-	-	12.3	12.9	-	-	-	-	-	0.92	-	0.047	-	29.2	
ED8×16	-	-	-	-	15.8	16.4	-	-	-	-	-	1.18	-	0.060	-	36.3	
ED10×10.0	25	10	37	41.8	9.8	10.3	4.7	5.2	1.5	8.40	0.96	0.92	0.062	0.059	1.5	40.7	
ED10×12.5	-	-	-	-	12.3	12.9	-	-	-	-	1.20	1.15	0.077	0.074	2.3	49.3	
ED10×16.0	-	-	-	-	15.8	16.4	-	-	-	-	1.53	1.47	0.099	0.095	3.5	60.7	
ED10×20.0	-	-	-	-	19.8	20.5	-	-	-	-	1.92	1.84	0.123	0.118	4.9	72.2	
ED12×12.5	30	12	44	50.2	12.3	12.9	5.7	6.2	1.5	10.10	1.44	1.38	0.111	0.107	5	69.3	
ED12×16.0	-	-	-	-	15.8	16.4	-	-	-	-	1.84	1.76	0.142	0.136	7.5	83.3	
ED12×20.0	-	-	-	-	19.8	20.5	-	-	-	-	2.30	2.21	0.178	0.171	10.7	98.1	
ED12×25.0	-	-	-	-	24.8	25.5	-	-	-	-	2.88	2.76	0.223	0.213	15	113	

CO Range: Single Phase Cruciform Cores

For Shell Type Transformers In GOSS

Drawing(mm)



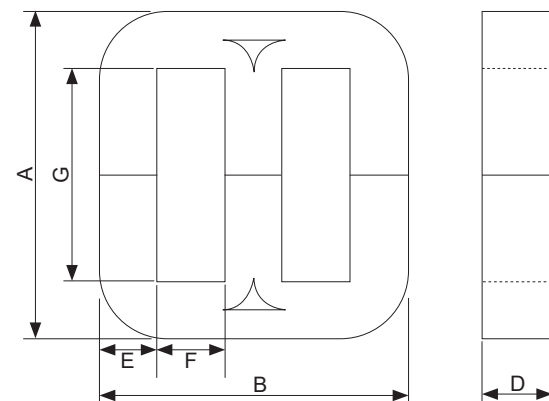
The CO range of cores is intended for single phase applications using circular section winding bobbins. A standard range is available on request and a table of physical sizes appears below.

CODE or VA/ Set	V/T at 1.7 Tesla	Nominal Dimensions(mm)							Core Circle Diameter	Area/ Set (cm²)	Weight/ Set (kg)
		A	B	C	D	E	F	P			
CO3000	1.182	75	28	70	155	250	220	196	80	31.35	15
CO5000	1.554	75	32	60	175	258	247	184	86	41.23	20
CO7500	2.120	90	39	55	210	272	297	188	98	56.24	30
CO10000	2.185	90	40	64	235	299	325	208	100	57.95	36
CO15000	2.389	90	43	70	275	315	370	226	103	63.36	42
CO20000	2.489	100	45	76	295	334	395	242	107	66.02	49
CO25000	2.722	100	47	76	295	348	400	246	111	72.20	53
CO30000	3.260	100	53	95	295	405	410	296	122	86.45	69
CO35000	3.456	100	55	101	295	425	415	312	126	91.67	75
CO40000	3.922	100	61	108	295	465	430	338	135	104.02	87

E Core

HSD-series

Drawing(mm)



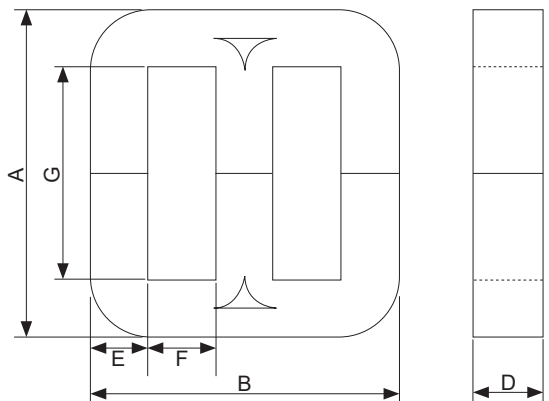
Main Technical Parameters (mm)

Code	Dimension (mm)									Flux path	Cross section	Weight Kg	Approx V.A.
	G min	F min	A max	B max	D min	D max	E min	E max	R max	L(cm)	k (cm ²)		0.3mm 50Hz
HSD10*20*20	20	12.5	42	57.6	19.8	20.5	9.7	10.4	1.5	5.22	1.92	0.23	2.53
HSD10*20*25	25	-	47	-	-	-	-	-	-	5.72	-	0.25	3.69
HSD10*20*32	32	-	54	-	-	-	-	-	-	6.42	-	0.28	5.53
HSD10*20*40	40	-	62	-	-	-	-	-	-	7.22	-	0.32	7.36
HSD12.5*25*25	25	16.0	54	72.4	24.8	25.5	12.2	13.0	2.0	6.55	3.00	0.45	13.90
HSD12.5*25*32	32	-	61	-	-	-	-	-	-	7.25	-	0.50	20.10
HSD12.5*25*40	40	-	69	-	-	-	-	-	-	8.05	-	0.55	26.40
HSD12.5*25*50	50	-	79	-	-	-	-	-	-	9.05	-	0.62	35.40
HSD16*32*32	32	20.0	68	91.1	31.8	32.6	15.7	16.5	2.0	8.36	4.92	0.95	47.20
HSD16*32*40	40	-	76	-	-	-	-	-	-	9.16	-	1.03	67.70
HSD16*32*50	50	-	86	-	-	-	-	-	-	10.20	-	1.14	93.40
HSD16*32*64	64	-	100	-	-	-	-	-	-	11.60	-	1.30	127.00
HSD20*32*40	40	25.0	86	113.4	31.8	32.6	19.7	20.6	2.0	10.50	6.14	1.49	143.00
HSD20*32*50	50	-	96	-	-	-	-	-	-	11.50	-	1.63	184.00
HSD20*32*64	64	-	110	-	-	-	-	-	-	12.90	-	1.83	225.00
HSD20*32*80	80	-	126	-	-	-	-	-	-	14.50	-	2.05	281.00

E Core

BSD-series

Drawing(mm)



Main Technical Parameters (mm)

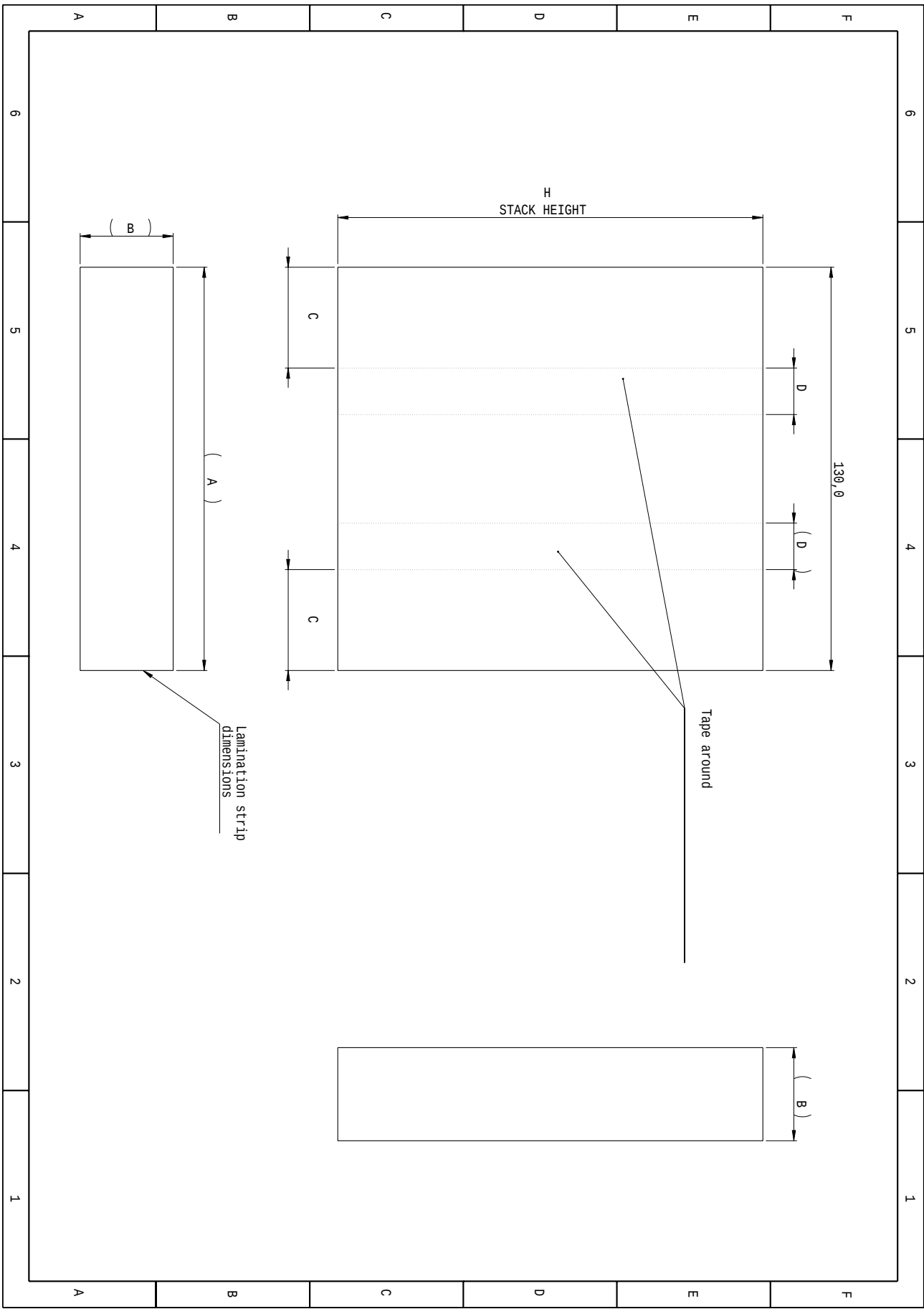
Code	Dimension(mm)									Flux path	Cross section		Weight Kg		Approx V.A.	
	G min	F min	A max	B max	D min	D max	E min	E max	R max	L(cm) min	k (cm ²)		M		0.2mm 50Hz	0.1mm 400Hz
BSD8*12.5*16	16	10.0	34	46.3	12.3	12.9	7.8	8.4	1.5	4.16	0.94	0.92	0.090	0.088	22.2	22.0
BSD8*12.5*20	20	-	38	-	-	-	-	-	-	4.56	-	-	0.098	0.096	36.3	35.8
BSD8*12.5*25	25	-	43	-	-	-	-	-	-	5.06	-	-	0.109	0.107	51.3	55.5
BSD8*12.5*32	32	-	50	-	-	-	-	-	-	5.72	-	-	1.125	0.128	67.0	68.2
BSD10*12.5*20	20	12.5	42	57.6	12.3	12.9	9.8	10.4	2.0	5.22	1.18	1.15	0.140	0.137	65.1	67.3
BSD10*12.5*25	25	-	47	-	-	-	-	-	-	5.72	-	-	0.154	0.151	80.0	82.6
BSD10*12.5*32	32	-	54	-	-	-	-	-	-	6.42	-	-	0.173	0.170	106.0	109.0
BSD10*12.5*40	40	-	62	-	-	-	-	-	-	7.22	-	-	0.194	0.190	132.0	135.0
BSD12.5*12.5*25	25	16.0	54	72.4	12.3	12.9	12.3	13.0	2.0	6.55	1.468	1.44	0.221	0.216	114.0	123.0
BSD12.5*12.5*32	32	-	61	-	-	-	-	-	-	7.25	-	-	0.225	0.239	139.0	150.0
BSD12.5*12.5*40	40	-	69	-	-	-	-	-	-	8.05	-	-	0.272	0.266	176.0	183.0
BSD12.5*12.5*50	50	-	79	-	-	-	-	-	-	9.05	-	-	0.304	0.298	221.0	231.0
BSD16*16*32	32	20.0	68	91.2	15.8	16.4	15.8	16.5	2.0	8.36	2.406	2.35	0.463	0.451	228.0	253.0
BSD16*16*40	40	-	76	-	-	-	-	-	-	9.16	-	-	0.508	0.495	282.0	301.0
BSD16*16*50	50	-	86	-	-	-	-	-	-	10.20	-	-	0.563	0.550	344.0	382.0
BSD16*16*64	64	-	100	-	-	-	-	-	-	11.60	-	-	0.640	0.625	442.0	488.0

Lamination Strip



Main Technical Parameters

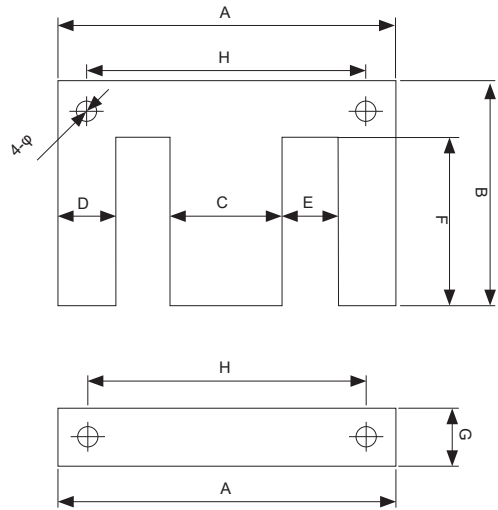
Dimension	Width(B)	Length(A)	Hole Distance(H)	Tape Width(φ)
Raw Material	GO: M5,M3,M0			
	NGO: 50W800,50W600,50W470,50W310,35W440,35W300,35W250,35W230			



Single Phase Ei Lamination(standard)



Drawing(mm)



Main Technical Parameters

Model	A	B	C	D	E	F	G	H	Hole Size(φ)
EI-16	16	12	4	2	4	10	2	-	-
EI-19	19	12.5	5	2.5	5	10	2.5	-	-
EI-28	28	21	8	4	6	17	4	-	-
EI-30	30	20	10	5	5	15	5	-	-
EI-33	33	22	11	5.5	5.5	16.5	5.5	-	-
EI-35	35	23.4	11.6	5.84	5.84	17.46	5.84	-	-
EI-38.4	38.4	25.6	12.8	6.4	6.4	19.2	6.4	-	-
EI-38.4	38.4	44.8	12.8	6.4	6.4	38.4	6.4	-	-
EI-41	41	27	13	6	8	21	6	35	3.2
EI-42	42	28	14	7	7	21	7	35	3.5
EI-48	48	32	16	8	8	24	8	40	3.5
EI-50	50	34	16	9	9	25	9	-	-
EI-54	54	36	18	9	9	27	9	45	3.5
EI-57	57	38	19	9.5	9.5	28.5	9.5	48	4.0
EI-60	60	40	20	10	10	30	10	50	3.5
EI-66	66	44	22	11	11	33	11	55	4.5
EI-75	75	50	25	12.5	12.5	37.5	12.5	62.5	5.0
EI-76.2	76.2	50.8	25.4	12.7	12.7	38.1	12.7	63.5	5.0

Model	A	B	C	D	E	F	G	H	Hole Size(φ)
EI-78	78	52	26	13	13	39	13	65	5.0
EI-78	78	53	22	14	14	39	14	64	5.0
EI-84	84	56	28	14	14	42	14	70	5.0
EI-85.8	85.8	57.2	28.6	14.3	14.3	42.9	14.3	71.5	5.0
EI-96	96	64	32	16	16	48	16	80	6.3
EI-105	105	70	35	17.5	17.5	52.5	17.5	87.5	6.0
EI-108	108	72	36	18	18	54	18	90	5.5
EI-114	114	76	38	19	19	57	19	95	7.0
EI-120	120	80	40	20	20	60	20	100	7.0
EI-126	126	84	42	21	21	63	21	105	7.0
EI-132	132	88	44	22	22	66	22	110	7.0
EI-133.2	133.2	88.8	44.4	22.2	22.2	66.6	22.2	111	7.0
EI-144	144	98	40	26	26	72	26	118	7.0
EI-150	150	100	50	25	25	75	25	125	8.0
EI-152.4	152.4	101.6	50.8	25.4	25.4	76.2	25.4	127	8.0
EI-162	162	108	54	27	27	81	27	135	8.5
EI-168	168	112	56	28	28	84	28	140	10.0
EI-171	171	114	57	28.5	28.5	85.5	28.5	142.5	9.0
EI-174	174	116	58	29	29	87	29	145	10.5
EI-180	180	120	60	30	30	90	30	150	9.0
EI-182	182	124	56	30	33	91	33	149	8.0
EI-192	192	128	64	32	32	96	32	160	9.0
EI-210	210	140	70	35	35	105	35	175	9.0
EI-228	228	152	76	38	38	114	38	190	10.3
EI-228.6	228.6	152.4	76.2	38.1	38.1	114.3	38.1	190.5	9.6
EI-240	240	160	80	40	40	120	40	200	12.0
EI-270*	270	180	90	45	45	135	45	225	10.0
EI-300*	300	200	100	50	50	150	50	250	12.0
EI-360*	360	240	120	60	60	180	60	300	12.0

Note: I) All the sizes with the symbol of"*" are manual stamping. Unlabeled tolerance ±0.1mm

Ei Air Gap

Main Technical Parameters

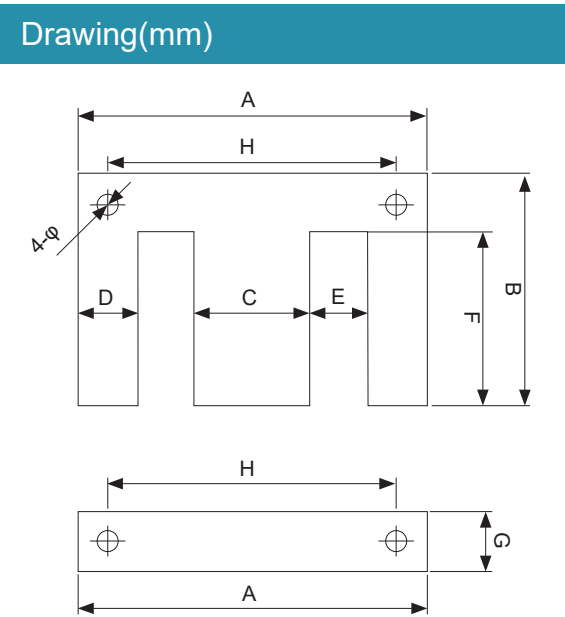
Name	Model	Elair gap size (±0.05mm)
EI	EI-28	0.4/0.5
	EI-41	0.5/1.0/2.0
	EI-48	0.38/0.5/0.8/1.0/1.4/1.5/2.0/2.4/3.2/4.0
	EI-57	0.4/0.75/1.1/1.2/2.0
	EI-60	0.75/0.8/0.9/1.0/1.1/1.2/1.5
	EI-66	0.75/0.8/0.9/1.0/1.2/1.45/1.5/1.8/2.45
	EI-76.2	1.2/1.3/1.5/1.8/2.0/2.2/2.3/2.4/2.45/2.5/3.0
	EI-84	1.0/1.8/2.0/2.08/2.2/2.3/5.0
	EI-85.8	1.0/1.2/1.3/1.5/1.6/1.8/1.9/2.0/2.8/3.0/3.1/3.6/4.0
	EI-96	1.35/1.4/1.5/1.8/2.0/2.2/2.54/2.7/3.0/4.0/4.5/4.87/5.0
	EI-105	2.0/2.3/3.0/3.4/5.0
	EI-114	1.9/2.5/3.0/3.6/4.0/4.83
	EI-120	1.5/4.0/4.5/5.5
	EI-133.2	2.8/3.0/3.4/3.5/4.0/5.5/6.0/6.73/8.38

Note: All air gap size can be customized by customer's demand, Unlabeled tolerance ±0.1mm,burr tolerance ±0.03mm, air gap tolerance ±0.05mm.

Single Phase Ei Lamination (non-standard)



Drawing(mm)



Main Technical Parameters

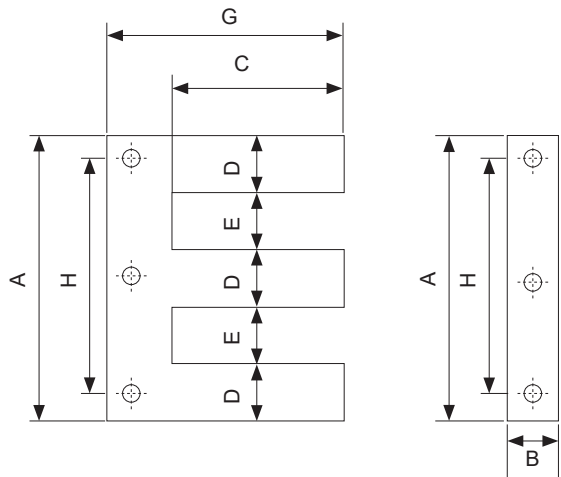
Note: Unlabeled tolerance ±0.1mm, burr tolerance ±0.03mm, air gap tolerance ±0.05mm.

Model	A	B	C	D	E	F	G	H	Hole Size(φ)
EI-32	32	22.78	9	4.5	7	18.3	4.5	-	-
EI-32	32	26.5	9.5	4.75	6.6	21.7	4	-	-
EI-35	35	24.5	9.6	5	7.7	19.5	5	-	-
EI-36	36	24.5	10	6.5	6.5	18	6.5	-	-
EI-44	44	30	12	8	8	22	8	-	-
EI-56	56	38	16	10	10	28	10	46	5
EI-60	60	40	20	10	10	50	10	50	5
EI-67	67	45.5	19	12	12	33.5	12	55	5
EI-67	67	46	20	10	13.5	36	10	57	4
EI-76.2	76.2	50.8	22	11	16.1	39.8	11	65.2	5
EI-90	90	60	30	15	15	45	15	75	6
EI-94	94	64	26	17	17	47	17	77	6
EI-102	102	83	34	17	17	66	17	85	6
EI-106	106	72	30	19	19	53	19	87	7
EI-114	114	95	38	19	19	76	19	95	6
EI-118	118	80	38	19	21	59	21	99	7
EI-123	123	83.5	35	22	22	61.5	22	101	7
EI-154	154	104	50	25	27	77	27	129	8
EI-222	222	149	70	38	38	111	38	184	10
EI-222	222	148	74	37	37	111	37	185	10
EI-288	288	196	80	52	52	144	52	236	12

Three Phase Ei Lamination(standard)



Drawing(mm)



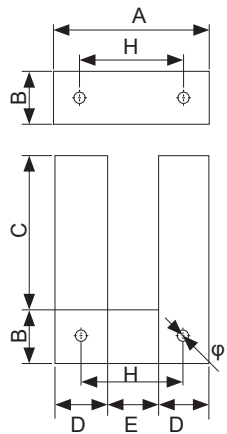
Main Technical Parameters

Model	A	B	C	D	E	H	Hole	
							Quantity	Hole Size(φ)
Three-phase16(40)	80	16	40	16	16	64	4	5
Three-phase(16)	80	16	48	16	16	64	4	5
Three-phase(20)	100	20	60	20	20	80	6	4.5
Three-phase(22)	110	22	66	22	22	88	4	6
Three-phase(25)	125	25	75	25	25	100	6	6
Three-phase(30)	150	30	90	30	30	120	4/6	8
Three-phase(32)	160	32	96	32	32	128	4	8
Three-phase(35)	175	35	105	35	35	140	4	8
Three-phase(38)	190	38	114	38	38	152	4/6	8
Three-phase(40)	200	40	120	40	40	160	4/6	8
Three-phase(44)	220	44	132	44	44	176	4/6	8
Three-phase(45)*	225	45	135	45	45	180	4/6	10
Three-phase(50)	250	50	150	50	50	200	4/6	8
Three-phase(56)*	280	56	168	56	56	224	4/6	10.8
Three-phase(60)	300	60	180	60	60	240	6	14
Three-phase(70)	350	70	210	70	70	280	6	14
Three-phase(80)	400	80	240	80	80	320	4/6	14
Three-phase(90)*	450	90	270	90	90	360	4/6	14
Three-phase(100)*	500	100	300	100	100	400	4/6	14
Three-phase(100)	100	20	50	20	20	80	6	6
Three-phase(125)	125	25	60	25	25	100	6	6
Three-phase(190)	190	38	95	38	38	152	4	-

UI Lamination



Drawing(mm)



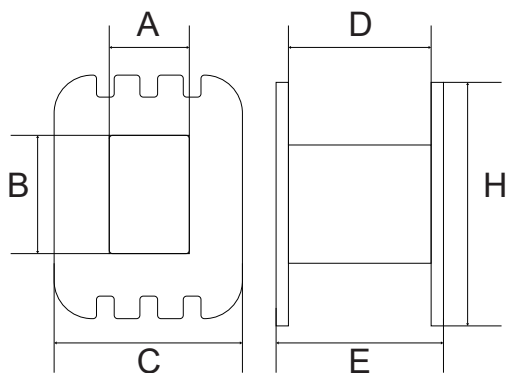
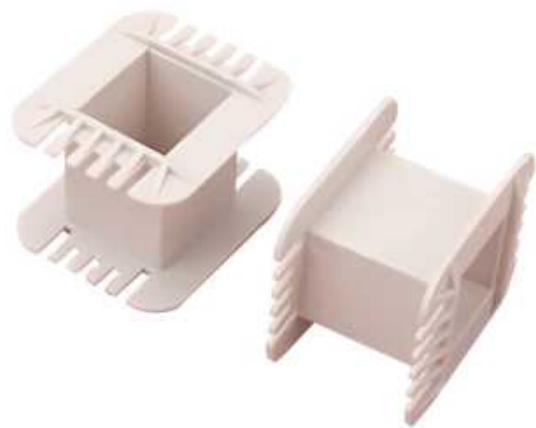
Main Technical Parameters

Model	A	B	C	D	E	H	Hole Size(φ)
UI13	39	13	39	13	13	26	4
UI19	57	19	57	19	19	38	7
UI25	75	25	75	25	25	50	8
UI25.4	76.2	25.4	76.2	25.4	25.4	50.8	5.5
UI28	84	28	84	28	28	-	-
UI30	90	30	90	30	30	60	8
UI31.75	95.25	31.75	95.25	31.75	31.75	75	5.56
UI35	105	35	105	35	35	70	8
UI38	114	38	114	38	38	76	8
UI40*	120	40	120	40	40	80	8
UI44	132	44	132	44	44	88	8
UI50	150	50	150	50	50	100	8
UI54	162	54	162	54	54	-	-
UI60	180	60	180	60	60	120	12
UI70	210	70	210	70	70	140	12
UI80*	240	80	240	80	80	160	14
UI90*	270	90	270	90	90	180	14
UI100*	300	100	300	100	100	200	14

Note: All the sizes with the symbol of "*" are manual stamping. Unlabeled tolerance ±0.1mm.

Bobbin

Drawing(mm)



Main Technical Parameters

		A	B	C	D	E	H
EI-22	5*5	5.3	5.1	16.6	16.4	19	17.5
	5*6	5.2	6	16.6	11.4	13	17.7
EI-28	8*11	8.1	11	19.4	14.8	16.7	25.1
	8*11	8.3	11.3	22.7	12.9	15.1	25.5
	8*11.5	8.1	11.8	19.5	14.7	16.6	25
	8*12.1	8.3	12.1	19.6	15	16.6	25.1
	8*15	8.4	15.1	19.3	14.8	16.6	28.8
	8*18	8.3	18	19.4	14.6	16.4	31
EI-35	10*10	10.1	10.4	24	17.3	19.7	25
	10*13	10.2	13.7	23.8	16.8	19	29.3
	10*14	10.2	14	23.9	16.9	19	29.3
	10*15	10.2	15.2	24.9	12	19	30.7
	10*20	10.2	20.3	24.9	16.9	19.1	36
EI-41	13*13	13.5	13.1	28.8	18.9	20.7	29.5
	13*15	13.3	15.3	28.7	19.1	20.7	33.6
	13*17	13.3	17.3	28.3	18.2	20.5	35.2
	13*20	13.3	20	27.5	18.2	20.5	37.1
	13*25	13.3	25.3	28.4	18.3	20.5	43.9
E-I48	16*16-1	16.3	16.3	31.4	21.4	23.3	35
	16*16-2	16.4	16.1	31.4	21.0	23.2	34.5

		A	B	C	D	E	H
E-I48	16*16-3	16.5	16.5	42.3	21.3	25.3	41.6
	16* 18	16.3	18.3	31.4	21.3	23.4	37
	16*20	16.5	20.7	31.6	21.4	25	38.8
	16*24-1	16.4	24	31.3	20.6	24	43.8
	16*24-2	16.5	24.1	31.6	21.1	23.5	44
	16*28	16.8	28.4	31.0	21.0	23.5	45.1
	16*31	16.7	31.2	31.1	21.2	23.4	47.2
	16*30	16.9	30.3	31.6	21.0	23.6	49.6
	16*35	16.7	35.3	31.4	21.3	23.7	54.7
EI-57	19*18(T)	19.7	18.4	37.3	25.8	29.2	40.4
	19*20	19.5	20.3	37.2	25.6	28.0	44
	19*25-1	19.6	25.3	37	25.7	28.0	48.6
	19*25-2	19.8	25.1	37.1	25.8	27.8	48.5
	19*28-1	19.5	28.3	37.7	25.6	28.3	53.8
	19*28-2	19.5	28.5	37.2	25.5	28.2	50.1
	19*30	19.8	30.0	37.5	25.5	28.1	53.9
	19*35	19.5	35.3	32.8	25.1	28	57.4
	19*38	19.8	38.2	37.3	25.5	27.8	60.3
EI-66	22*18-1	22.5	18.2	43.1	29.9	32.5	42.9
	22*18-2	22.3	18.2	43.0	29.7	32.5	36.8
	22*23	22.5	23.0	43.5	30.1	32.8	46.2
	22*25-1	22.5	25.2	42.8	30.1	32.6	48.6
	22*25-2	22.4	25.1	42.4	30.1	32.5	48.5
	22*28	22.5	27.8	43	30.1	32.1	51
	22*30	22.5	30.3	43.2	29.6	32.3	56.6
	22*33	22.6	33.4	43.8	30.4	32.8	60.5
	22*35	22.6	35.3	43.2	29.5	32.3	61.5
	22*36	22.6	36.3	43.2	29.5	32.3	61.5
	22*38	22.5	38.4	43.6	29.8	32.6	62.2
	22*40	22.5	40.3	43.3	30	32.5	66.5
EI-76.2	22*44	22.5	44.3	43.5	28.7	32.4	68.8
	26*26	26.2	26.3	50.1	35.5	38	54.7
	26*28	26.2	28.3	49.9	34.0	37.6	55.7
	26*30	26.2	30.3	49.9	33.4	37.5	57.4
	26*32	26.3	32.3	50.3	33.6	37.5	60.0
	26*35	26.3	35.7	49.6	34.6	37.3	64.5
	26*40	26.3	40.1	50.1	33.1	37.6	67.3
	26*42	26.2	42.2	50.3	33.9	37.2	71.0
	26*45	26.3	45.0	50.2	34.4	37.7	72.2
	26*50	26.2	50.1	50.2	33.9	37.2	77.8
	26*55	26.3	55	50.5	33.5	37.2	82.7
EI-84	28*30	29.1	29.5	54.2	37.1	41.5	59.2
	28*35	29.1	35.3	54.3	37.5	41.5	64.7
	28*38	29.3	38.3	56.1	38.1	41.9	69.5
	28*40	29.1	40.3	54.5	37.4	41.5	69.8
	28*45	28.9	45.0	54.6	38.1	41.7	75.0
EI-85.8	28.6*30	29.1	29.5	54.2	37.1	41.5	59.2
	28.6*30(S)	28.8	31.0	55.6	31.5	35.9	62.2
	28.6*33	29.5	33.2	56.5	39.1	42.1	65

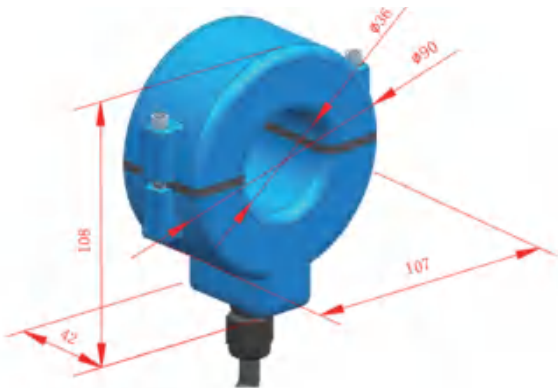
		A	B	C	D	E	H
EI-85.8	28.6*35(F)	29.2	35.1	54.6	38.1	41.6	65.1
	28.6*38	29.3	38.3	56.1	38.1	41.9	69.5
	28.6*40	29.1	40.3	54.5	37.4	41.5	69.8
	28.6*45	28.9	45	54.6	38.1	41.7	75
	28.6*50	30.1	50.1	57.1	39.1	42.4	82.8
	28.6*55	29.2	55.1	55.9	38.5	42.4	86.2
	28.6*60	29.1	60	55.5	38.5	42.2	91.1
EI-96	32*28	32.5	28.3	63.1	44.7	47.9	62.7
	32*33	33	33.1	63.7	43.9	47.6	69.3
	32*35	32.9	35.1	63.4	44.5	48.9	70
	32*40	32.5	40	63.5	44.3	47.5	75.2
	32*45	33.2	45.5	63.6	44.5	47.8	82
	32*50	33.2	50.2	63.5	44.5	47.6	87
	32*55	33	55.3	63.9	43	47.5	91.1
	32*60	33.1	60.5	63.1	44.2	47.8	96.8
	32*60 JBK5	32.8	60.4	61.9	44.3	69.5	94
	32*65	32.9	65	63.1	43.5	47.5	101.5
	32*70	33.2	70.5	63.9	43.8	47.8	107.2
	32*75	32.5	76	63	44.1	47.3	112.3
	32*75	32.5	76	63	44.1	47.3	112.3
EI-105	35*35-1	35.8	35.2	69.2	48.5	52.2	74.5
	35*35-2	36	35	68.8	48.1	52.0	76.8
	35*40	36	40.4	69	48.3	51.7	79.5
	35*45	36	45.1	69.6	47.6	52	84.5
	35*50	35.7	50.2	69.8	48.5	52.7	89.6
	35*55	35.8	55	69.2	47.7	52.2	94.2
	35*60	36.1	60.3	63.8	48.9	52.2	99.5
EI-114	38*40	39	40.1	75.5	51.5	56.3	84.6
	38*45	38.5	45.1	74.1	52.4	56.6	89.5
	35*50	38.8	50	75.2	51.1	56.3	94.3
	38*52	39	52.1	75	51.8	56.5	94.4
	38*55	39.5	55.3	75.4	52.5	56.6	100.5
	38*60	39	60	75	51.2	56.2	104
	38*65	39.3	65	75.2	52.1	56.6	109.3
	38*70	39.2	70	75.5	52	56.5	114.5
	38*75	38.7	75.5	75	52.3	56.3	120
	38*80	38.5	80	70.5	51.9	56.5	124.3
EI-120	40*40	40.8	40.4	78.7	55.6	59.4	84.7
	40*45	40.6	45.1	78.7	55.6	60	89.5
	40*50	40.6	50.1	79.1	55.3	59.5	94.6
	40*55	40.8	55.3	78.9	55.0	59.2	99.7
	40*60	40.8	60.3	78.8	55.8	59.5	104.6
	40*67	40.8	67.4	78.9	56.0	59.6	111.5
	40*75	41.1	75.3	79	55.6	59.5	119.5
	40*80	41	80	79	55.9	59.4	124.4
EI-133.2	44*45	45.5	45.9	87.8	61.8	65.7	103
	44*50	46.1	50.5	87	62.7	65.8	100
	44*55	45.1	55.3	87.4	61.2	65.6	105.4
	44*60	44.7	60.3	87.1	60.9	65.5	110
	44*64	45.8	64.2	87.9	61.2	65.7	113.5

		A	B	C	D	E	H
EI-133.2	44*65	45.4	64.6	86.6	61.4	66.5	112.7
	44*70	45.8	70.2	86.9	62	66.5	118.5
	44*75	45.3	75.1	87.5	61.4	65.8	125.3
	44*80	45.8	80.1	86.9	61	65.7	128.2
	44*100	45.8	100.2	88.5	59.7	65.7	149
EI-150	50*40	50.9	40.5	98.9	69.5	74.5	94.5
	50*45	51.1	45.5	99.0	69.4	74.5	99.9
	50*50-1	51.5	50.5	99.1	70	74.5	104.5
	50*50-2	51.2	50.0	98.5	70	74.5	105
	50*55	50.9	55.4	98.8	69.7	74.4	109.8
	50*60	51.6	60.3	98.8	70.36	81.66	115.4
	50*65	50.6	65.2	98.9	69.8	74.4	119
	50*70	51.2	70	99.3	69.5	74.8	124.5
	50*75	52.9	75.4	99	70.36	81.66	132.3
	50*80	52.8	80.1	99	70.36	81.66	137.2
	50*85	51.1	85.5	99.1	68.7	74.3	139.5
	50*90	51.1	90.1	99.2	70.36	81.66	144.94
	50*100	52.8	100.1	99	70.5	81.8	157.2
EI-152	50*120	51.6	120.3	99.2	70.36	81.66	177.7
	50.8*50	52.3	50.5	98.6	69.8	74.7	104.5
	50.8*70	51.2	70.0	99.3	69.5	74.8	124.5
	50.8*75	52.9	75.4	99	70.36	81.66	132.3
	50.8*80	52.8	80.1	99	70.36	91.66	137.2
	50.8*100	54.9	100.3	107.3	75	80.3	160
	50.8*100	54.9	100.3	107.3	75	80.3	160
EI-162	54*70	55.4	70	107.1	76.7	80.7	130
	54*75	55.2	75	107.2	75.6	80.3	135.1
	54*90	54.6	90	107.1	74.6	80.5	150.1
EI-168	54*100	54.9	100.3	107.3	75	80.3	160
	56*65	57.2	65.6	110.7	78.6	83.3	127.5
	56*80	57.3	80.2	110	76.1	83.1	143.8
	56*90	57.1	90	110.6	78.2	83.2	150.1
EI-180	60*40	61.2	41.6	118.2	82.7	88.3	104.7
	60*60	61.2	61.6	118	82.3	87.9	124.6
	60*70	61	70	119	83.7	89.2	134.5
	60*80	61.3	80.1	119.1	83.1	89.3	144.7
	60*90	61.2	90.1	119	83.3	89.2	154.4
	60*100	60.7	100.4	118.9	84.3	88.9	165
	60*100	60.7	100.4	118.9	84.3	88.9	165
EI-192	64*55	65.8	55.6	125.1	91.1	102.4	126.8
	64*70	65.8	70.1	126.8	91.1	102.4	140.5
	64*80	65.7	80.2	127	89.7	95.2	149.6
	64*90	65.8	90.2	125.7	90.3	102.47	159.44
	64*100	65.8	100.3	126.7	89.5	95	169.5
	64*110	65.7	110.5	126.7	90.4	102.8	179.5
	64*120	66.5	120.5	126.8	87.6	95	189.6
	64*130	65	130.5	126.8	90.8	95	197.5
EI-228	76*100	77.3	100.6	146.2	106.7	113.1	175.8
	76*110	77.6	110.5	150.1	106.7	113.1	189.2

YD-K-OD-36
OUTDOOR SPLIT CORE CT



Drawing(mm)



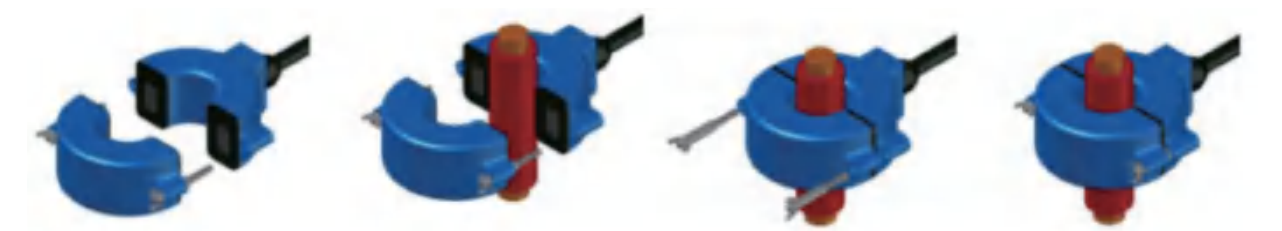
Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden
YD-K-OD-36	(100-300)/5	3	2.5VA
	(400-500)/5	1	2.5VA
	(600-800)/5	1	5VA
	(100-300)/1	1	2.5VA
	(400-500)/1	0.5,1	2.5VA
	(600-800)/1	0.5,1	5VA

Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	AC 0.4/0.66/0.69/0.72kV
Operating Temperature	-35~60 °C
Rated Ratio	Depending on the type
Rated secondary Current	5A,1A
Accuracy Class	3,2,1,0.5
Protection Level	IP67

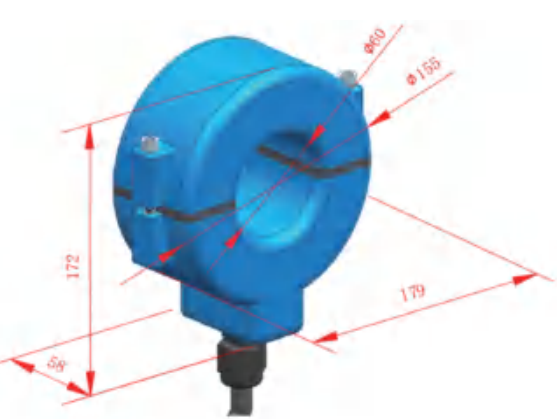
Installation



YD-K-OD-60
OUTDOOR SPLIT CORE CT



Drawing(mm)



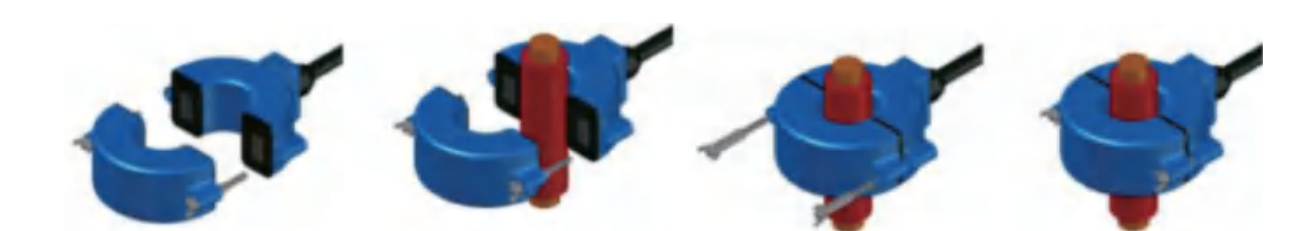
Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden
YD-K-OD-60	(600-1000)/5(1)	0.5,1	5VA
	(1200-2000)/5(1)	0.5,1	10VA

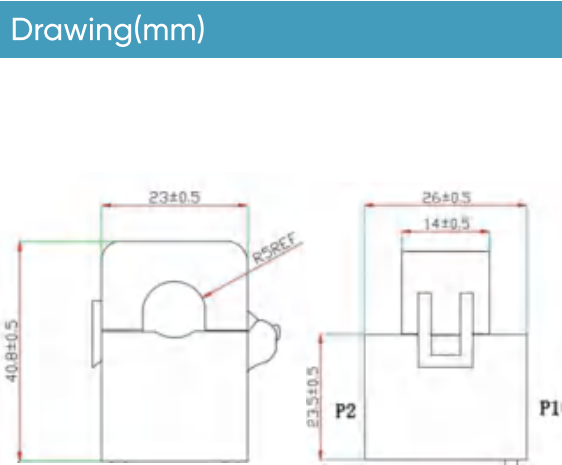
Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	AC 0.4/0.66/0.69/0.72kV
Operating Temperature	-35~60 °C
Rated Ratio	Depending on the type
Rated secondary Current	5A,1A
Accuracy Class	1,0.5
Protection Level	IP67

Installation



YD-K-Φ-10F
SPLIT CORE CT



Specifications

Type	Primary Current	Secondary
YD-K-Φ-10F	30A	333mV
	50A	333mV
	75A	333mV
	80A	333mV

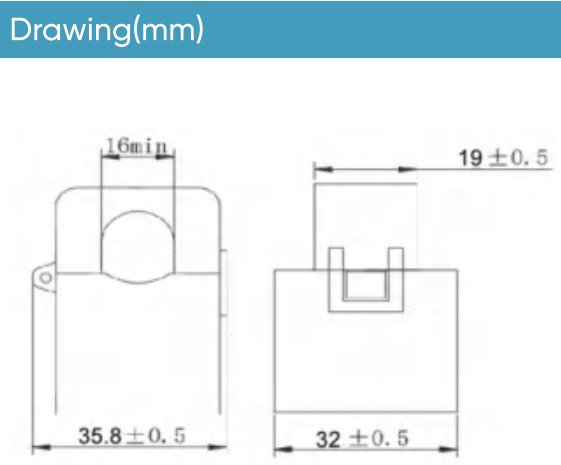
Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	AC 0.4/0.66/0.69/0.72kV
Primary Current	≤80A
Rated Ratio	Depending on the type
Operating Temperature	-25~50 C
Accuracy Class	1

Installation



YD-K-Φ-16F
SPLIT CORE CT



Specifications

Type	Primary Current	Secondary
YD-K-Φ-16F	50A	333mV
	100A	333mV
	100A	333mV
	120A	333mV

Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	AC 0.4/0.66/0.69/0.72kV
Primary Current	≤120A
Rated Ratio	Depending on the type
Operating Temperature	-25~50 C
Accuracy Class	1

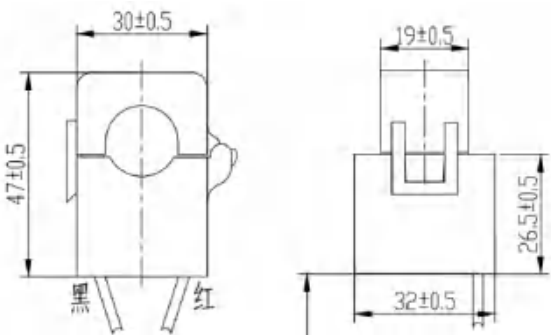
Installation



YD-K-Φ-16
SPLIT CORE CT



Drawing(mm)



Specifications

Type	Rated Ratio(A)	Accuracy
YD-K-Φ-16	50/1	1
	100/1	
	150/1	0.5,1
	175/1	
	100/5	3
	150/5	
	175/5	2

Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	AC 0.4/0.66/0.69/0.72kV
Primary Current	≤175A
Rated Ratio	Depending on the type
Operating Temperature	-25~50 C
Accuracy Class	3,2,1,0.5

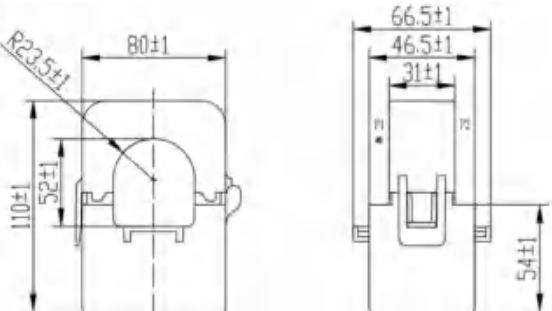
Installation



YD-K-Φ-24
SPLIT CORE CT



Drawing(mm)



Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-Φ-24	100/1	1	
	150/1	0.5,1	
	200/1	0.5,1	
	250-300/1	0.5,1	2.5
	100/5	3	
	150/5	2	
	200/5	1	
	250-300/5	0.5,1	2.5

Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	AC 0.4/0.66/0.69/0.72kV
Primary Current	≤300A
Rated Ratio	Depending on the type
Operating Temperature	-25~50 C
Accuracy Class	3,2,1,0.5

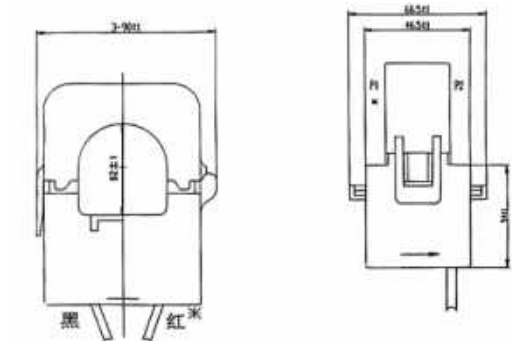
Installation



YD-K-Φ-36
SPLIT CORE CT



Drawing(mm)



Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-Φ-36	200-300/1	0.5,1	5
	400-600/1	0.5,1	
	200/5	1	2.5
	250-300/5	0.5,1	
	400-600/5	0.5,1	

Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	AC 0.4/0.66/0.69/0.72kV
Primary Current	≤600A
Rated Ratio	Depending on the type
Operating Temperature	-25~50 C
Accuracy Class	1,0.5

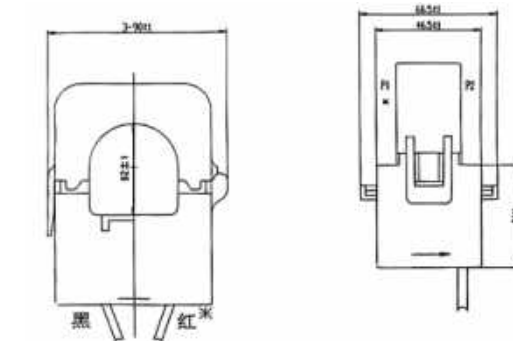
Installation



YD-K-Φ-50
SPLIT CORE CT



Drawing(mm)



Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-Φ-50	500/5	1	2.5
	600-700/5	1	2.5
	800-900/5	0.5,1	5
	1000/5	0.5,1	10
	500/1	0.5,1	2.5
	600-700/1	0.5,1	2.5
	800-900/1	0.5,1	5
	1000/1	0.5,1	10

Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	AC 0.4/0.66/0.69/0.72kV
Primary Current	≤1000A
Rated Ratio	Depending on the type
Operating Temperature	-25~50 C
Accuracy Class	1,0.5

Installation



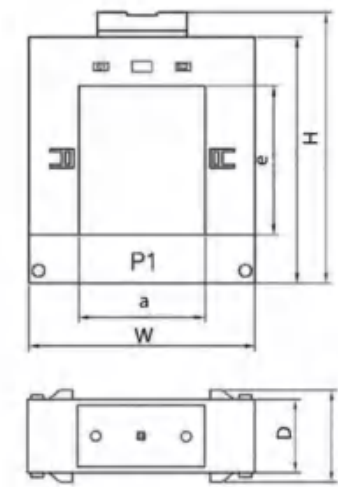
YD-K-30*20
SPLIT CORE CT



Technical Features	
Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60I _n
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 °C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	3,2,1,0.5

Specifications			
Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-30*20	100-150/5	3	
	200/5	1	
	250-300/5	1	
	350-400/5	1	
	20-75/1	2	
	100-150/1	1	
	200/1	0.5,1	
	250-300/1	0.5,1	
	350-400/1	0.5,1	

Drawing(mm)



SIZE CHART					
30*20	Outer Dimension(mm)			Busbar(mm)	
	W	H	D	a	e
	90	112	36	22	32

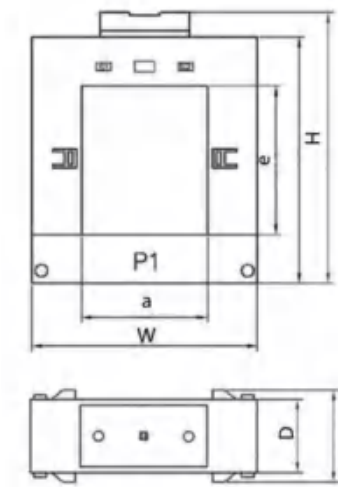
YD-K-60*40
SPLIT CORE CT



Technical Features	
Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60I _n
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 °C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0.5

Specifications			
Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-60*40	250-300/5	1	
	350-400/5	1	1.5
	500-800/5	0.5,1	2.5
	1000-1500/5	0.5,1	5
	250-300/1	0.5,1	
	350-400/1	0.5,1	1.5
	500-800/1	0.5,1	2.5
	1000-1500/1	0.5,1	5

Drawing(mm)



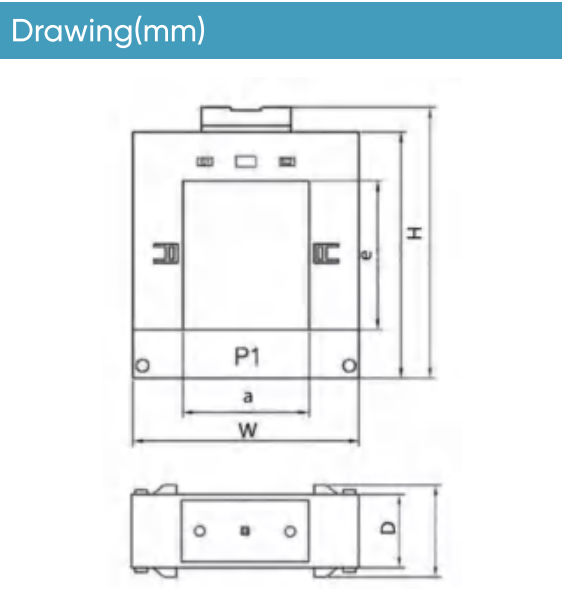
SIZE CHART					
60*40	Outer Dimension(mm)			Busbar(mm)	
	W	H	D	a	e
	114	140	36	42	62

YD-K-80*50
SPLIT CORE CT



Technical Features	
Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60I _n
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0,5

Specifications			
Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-80*50	250-300/5	1	
	350-400/5	1	1.5
	500-800/5	0.5,1	2.5
	1000-1500/5	0.5,1	5
	250-300/1	1	
	350-400/1	0.5,1	1.5
	500-800/1	0.5,1	2.5
	1000-1500/1	0.5,1	5



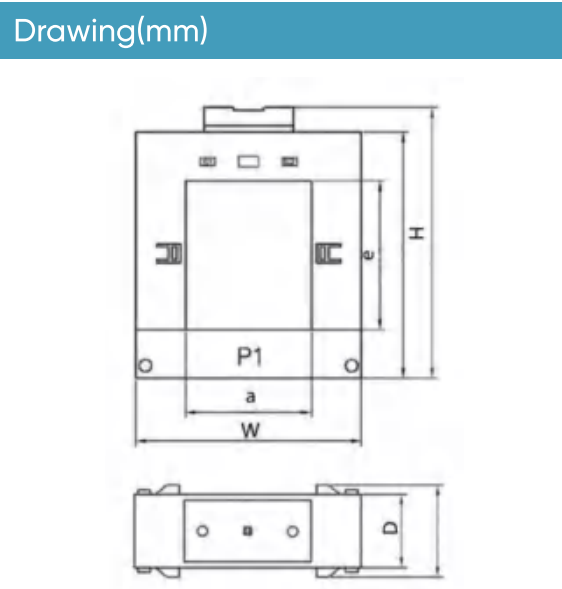
SIZE CHART					
80*50	Outer Dimension(mm)			Busbar(mm)	
	W	H	D	a	e
	122	163	40	51	82

YD-K-80*80
SPLIT CORE CT



Technical Features	
Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60I _n
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0,5

Specifications			
Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-80*80	250-300/5	1	
	350-400/5	1	1.5
	500-800/5	0.5,1	2.5
	1000-1500/5	0.5,1	5
	250-300/1	1	
	350-400/1	0.5,1	1.5
	500-800/1	0.5,1	2.5
	1000-1500/1	0.5,1	5



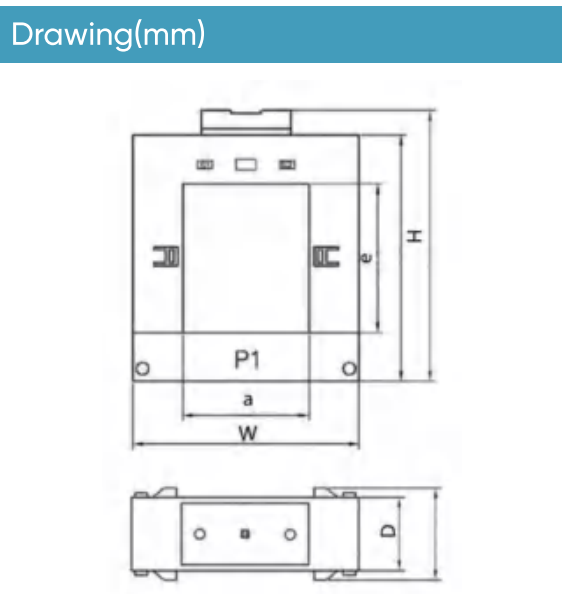
SIZE CHART					
80*80	Outer Dimension(mm)			Busbar(mm)	
	W	H	D	a	e
	144	162	36	82	82

YD-K-100*50
SPLIT CORE CT



Technical Features	
Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60In
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0,5

Specifications			
Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-100*50	1000-2000/5	0,5,1	10
	2500-3000/5	0,5,1	10
	4000/5	0,5,1	15
	1000-2000/1	0,5,1	10
	2500-3000/1	0,2,0,5,1	10
	4000/1	0,2,0,5,1	15



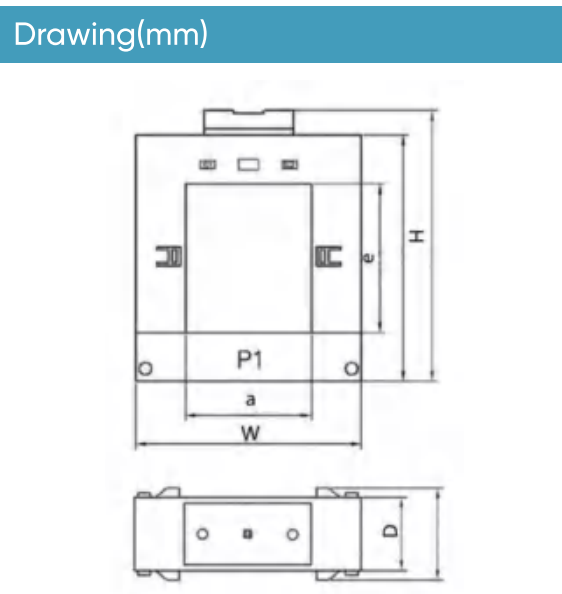
SIZE CHART					
100*50	Outer Dimension(mm)			Busbar(mm)	
	W	H	D	a	e
	141	190	36	51	102

YD-K-125*60
SPLIT CORE CT



Technical Features	
Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60In
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0,5,0,2

Specifications			
Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-125*60	400-450/5	0,5,1	2,5
	500-800/5	0,5,1	5
	1000-2000/5	0,5,1	10
	2500-5000/5	0,5,1	10
	400-450/1	0,5,1	2,5
	500-800/1	0,5,1	5
	1000-2000/1	0,5,1	10
	2500-5000/1	0,2,0,5,1	10



SIZE CHART					
125*60	Outer Dimension(mm)			Busbar(mm)	
	W	H	D	a	e
	164	195	51	62	127

YD-K-120*80
SPLIT CORE CT



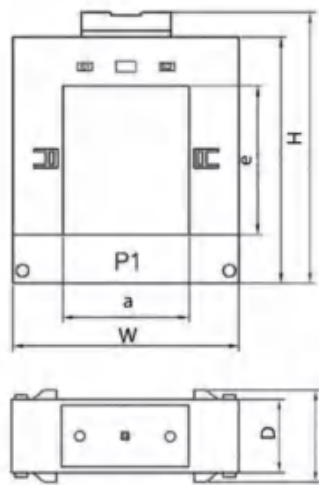
Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60I _n
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0,5,0,2

Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-120*80	500-800/5	0,5,1	2.5
	1000-1200/5	0,5,1	5
	1250-1500/5	0,5,1	7.5
	500-800/1	0,5,1	2.5
	1000-1200/1	0,2,0,5,1	5
	1250-1500/1	0,2,0,5,1	7.5

Drawing(mm)



SIZE CHART

120*80	Outer Dimension(mm)			Busbar(mm)	
	W	H	D	a	e
	151	204	36	82	122

YD-K-140*60
SPLIT CORE CT



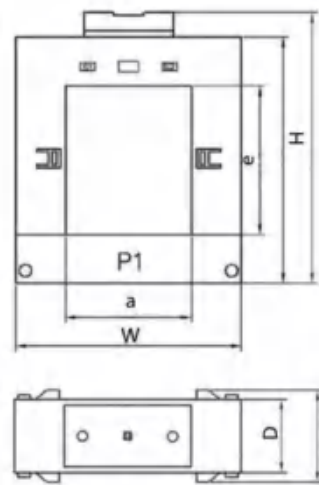
Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60I _n
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0,5,0,2

Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-140*60	1000-2000/5	0,5,1	10
	2500-3000/5	0,5,1	10
	4000-5000/5	0,5,1	15
	1000-2000/1	0,2,0,5,1	10
	2500-3000/1	0,2,0,5,1	10
	4000-5000/1	0,2,0,5,1	15

Drawing(mm)



SIZE CHART

140*60	Outer Dimension(mm)			Busbar(mm)	
	W	H	D	a	e
	162	230	36	62	142

YD-K-160*80
SPLIT CORE CT



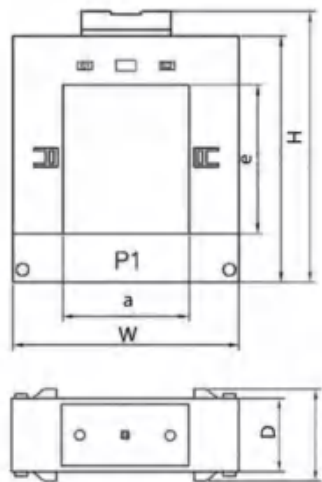
Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60I _n
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0,5,0,2

Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-160*80	1000-2000/5	0.5,1	10
	2500-3000/5	0.5,1	10
	4000-5000/5	0.5,1	15
	1000-2000/1	0.2,0.5,1	10
	2500-3000/1	0.2,0.5,1	10
	4000-5000/1	0.2,0.5,1	15

Drawing(mm)



SIZE CHART

	Outer Dimension(mm)			Busbar(mm)	
160*80	W	H	D	a	e
	184	250	36	82	162

YD-K-200*80
SPLIT CORE CT



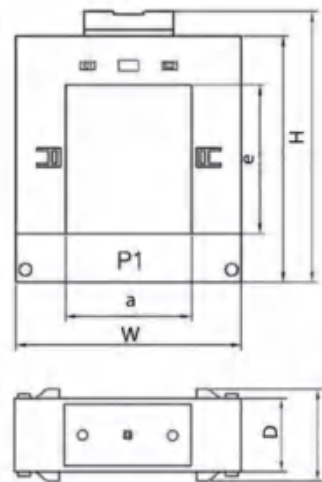
Technical Features

Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Rated Voltage	660V
Thermal short-circuit current,I _{th}	60I _n
Dynamic current,I _{dyn}	2.5I _{th}
Insulation Class	Class E Class B
Operating Temperature	-35~75 C
Rated Ratio	Depending on the type
Rated secondary current	5A,1A
Accuracy Class	1,0,5,0,2

Specifications

Type	Rated Ratio(A)	Accuracy	Rated Burden(VA)
YD-K-200*80	1000-2000/5	0.5,1	10
	2500-3000/5	0.5,1	10
	4000-5000/5	0.2,0.5,1	15
	1000-2000/1	0.2,0.5,1	10
	2500-3000/1	0.2,0.5,1	10
	4000-5000/1	0.2,0.5,1	15

Drawing(mm)



SIZE CHART

	Outer Dimension(mm)			Busbar(mm)	
200*80	W	H	D	a	e
	183	300	52	82	206

YD-PM-CT
PIN MINI CT



Technical Features	
Frequency	50/60Hz
Insulation Voltage	3000Vac 1min
Primary Current	1-100A
Secondary Current	1-100mA
Ratio Error	±0.2
Phase Error	≤10'
Operating Temperature	-25~55 C
Burden	≤50Ω

Specifications			
Type	Item	Rated Input(A)	Recommended Turns
YD-PM-CT	A	5	1000
	B	5,20	2000
	C	10,30	2500

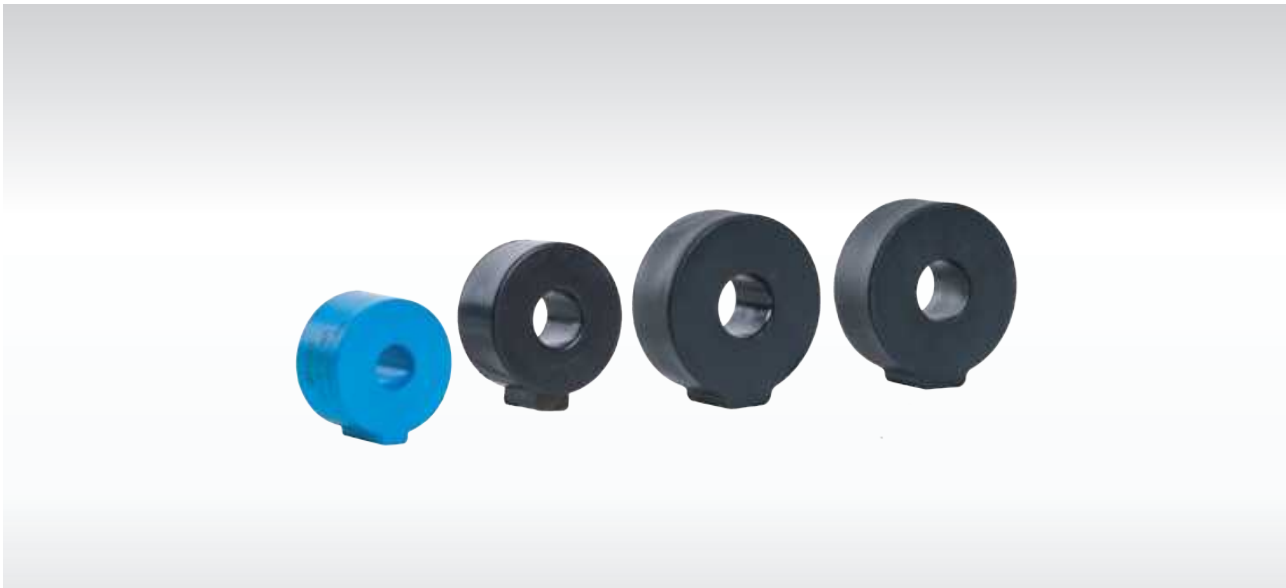
Drawing(mm)

A: Dual pins

B: Parallel Four Pins

C: Front & Rear Parallel Pins

YD-RM-CT
RING MINI CT



Technical Features	
Frequency	20Hz~1kHz/50kHz/200kHz
Maximum Continuous Primary Current	4I _n
Insulation Voltage	3500Vac 1min
Storage Temperature	-45~85 C
Operating Temperature	-45~85 C

Specifications	
Type	Item
YD-RM-CT	General Purpose CT
	Revenue Grade CT
	Ground Fault CT

Drawing(mm)

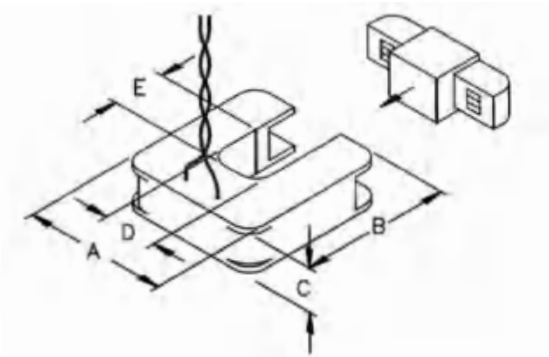
YD-KP Series



Technical Features

- Clamp on design, easy installations
- 333mV output, safe installations
- Cost-effective

Drawing(mm)



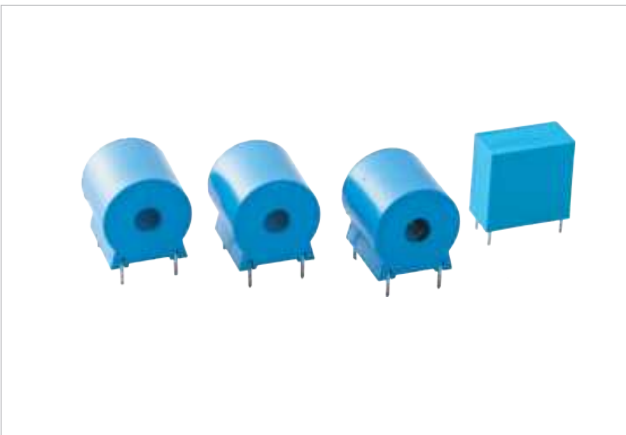
Specifications

Rated Primary Current	50A-3000A
Rated Secondary Voltage	333mV
Linearity Accuracy	1% (10%-130%)
Leads	1015# 2AWF
Insulation Voltage	3000Vac 1min
Frequency	50Hz,60Hz
Standard	IEC 60044-1
Construction	Epoxy Encapsulated housing
Storage Temperature	-40~70 C
Operating Temperature	-20~55 C

SIZE CHART

	Dimension(mm)			Hole(mm)		Lead Wire(mm)	
Type	A	C	B	D	E	Wire	Lead
YD-KP-750	52	19	54	19	18	1000	6
YD-KP-1250	82	27	85	32	32	1000	6
YD-KP-2000	121	31	127	51	51	1000	6
YD-KP-3000	147	32	201	76	127	1000	6

Custom Design Products



Pin Mini Potential Transformer



Common Mode Choke



Low Frequency Transformer



Current Clamp



Residual Current Transformer



3-Phase Current Transformer

Fe-based Amorphous C-Core

Application

- Reactor core for PV inverter
- Filter reactor of HF high power switching power supply
- Audio Transformer
- Major transformer of UPS



Features

- High saturate induction intensity-reduce core volume
- Rectangular cutting structure-easy to assemble the coil
- Magnetic core segmentation-excellent resistance to DC bias saturation
- Low loss-reduce temperature rise
- Good stability-stable work at -40 C ~130 C
- Permeability: 1000-1500 Gs/Oe



Fe-based Nanocrystalline CMC Core

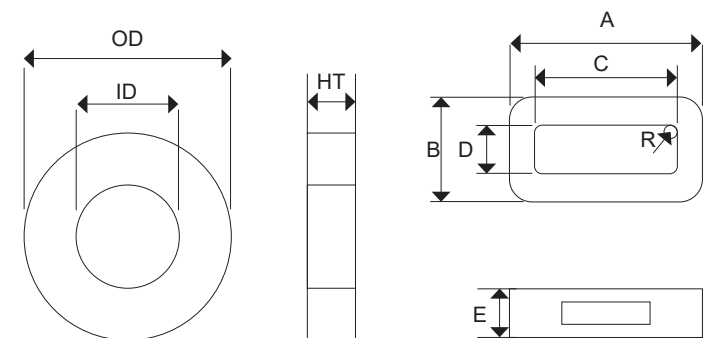
Application

- Automotive parts(OBC, DC-DC, electric control, battery monitoring, EPS, AC compressor control components)
- New energy applications(PV Inverter, wind driven generator, EV charging station)
- Consumer Appliance (TV, AC, computer, game machine)
- Medical equipments(MRI machine, ventilator)
- Other electronics(Server power supply, UPS, subway)

Features

High Bs, high μ i	High Bs (1.2T), high μ i (>80000), and high anti-saturation ability, that can effectively reduce the core geometry.
Excellent frequency	Excellent permeability characteristics in a wide frequency range.
Stable temperature characteristic	The performance change rate is $\pm 10\%$ during temperature -40 C ~150 C .
Excellent high frequency impedance characteristic	Impedance performance comparison of Nanocrystalline CMC and Mn-Zn ferrite in P25.
Low magnetostriction coefficient, low noise	Saturated magnetostriction coefficient is close to zero, $\lambda_s \approx 0$.

CATECH P/N Description	NC Nanocrystalline Core	0001 Serial No.	L Low Br	W Encapsulation method: w-white plastic case b-black plastic case, c-coating t-stainless steel case	01 Feature
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Fe-based Nanocrystalline C Core

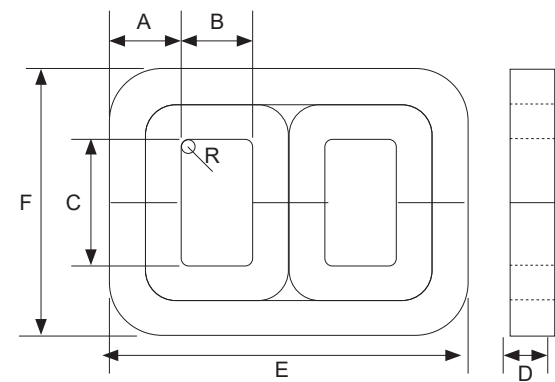
Application	Features
Ntermediate frequency transformer	Low core loss(20kHz 0.05TP≤0.5w/kg)
Auxiliary power transformer for rail transit	High permeability (10000-15000 Gs/Oe)
Inductor for new energy vehicles	Low hysteresis noise
Power transformer	

YD P/N Description	CA	CC	100	NR
	CATECH	C-core	Serial No.	Nanocrystalline

Three Phase E-core

YD P/N Description	CA	CC	(E)	47
	CATECH	C-core	E core	Serial No.

a-core build b-window width
c-window height d-core height
e-core width f-core length
Weight-weight in grams



Fe-based Nanocrystalline Current Transformer Core

Application	Features
Precision Current Transformer	High saturation magnetic induction Small in size
Zero Sequence Current Transformer	High permeability and low remanence Excellent in precision and linearity of the transformer performance
Measuring transformers for high and low voltage appliances	
Leakage switch for Type A, Type AC, Type B	Good temperature stability at -40 C ~120 C
Charging piles for EV	
OBC and BMS applications for EV system	

Fe-based Nanocrystalline High Frequency Voltage Transformer Core

Application	Features
Inverter welding power transformer	High saturation magnetic induction intensity and high magnetic conductivity: effectively helps to reduce the size and the weight of the components.
X ray power transformer, laser power transformer, communication equipment power transformer	High permeability and low coercivity: helps to improve transformer efficiency and reduce excitation power.
UPS and high frequency induction heating power transformer	Low remanence: obtain greater magnetic induction increment, resulting in greater output power
Charging power transformer	Low loss: reduce transformer temperature rise, improve transformer efficiency
Power plus transformer	
Frequency control transformer	
Cutting machine transformer	Good temperature stability: -40 C ~130 C