

TECHNICAL PARTICULARS FOR ALUMINIUM BUSDUCTS-KX Series- 1000V, 5000A, 4000A, 3200A, 2500A, 1600A, 1250A,1000A, 800A, 630A

	Date:20/10/2009									
BUSBAR MAKE	EAE									
a)Service	Maintenance free for 50 years									
b) Type of standard	IEC 60439-2/1									
	IEC 60331 for fire resistance for 8hours at 750deg external & 50deg internally, i.e at 800deg Celsius									
c)Degree of protection	IP 55 as Standard, IP65, IP67 available on requirement									
d)Bus Bar type	Sandwich									
ELECTRICAL CHARACTERISTICS										
1.RATED VOLTAGE	1000V									
2.EARTHING SYSTEM	Housing(Tested and certified as per IEC 60439-2, item no:8.2.4)									
3.INSULATION BETWEEN PHASES	KX- Epoxy Resin + MYLAR									
4.FREQUENCY	50/60 Hz									
5.ELECTRICAL CLEARANCES										
a)Phase - Phase	Minimum 1 inch(2.5cm) between bare(un insulated) conductors									
b)Phase - Earth	Minimum 1 inch(2.5cm) between bare(un insulated) conductors									
6.CURRENT RATING										
a)Continuous	5000A	4000A	3200A	2500A	2000A	1600A	1250A	1000A	800A	630A
b)One Second current	120kA	120KA	120KA	100KA	60KA	60KA	60KA	50KA	35KA	25KA
c)Momentary current	264KA	264KA	264KA	220KA	132KA	132KA	132KA	105KA	73.5KA	55KA
7.MAXIMUM 3 PHASE AVERAGE RISE OF BUSBAR TEMPERATURE UNDER FULL LOAD OVER AN AMBIENT OF 50 ° C	40°C(AVERAGE)									
8.TYPE OF VENTILATION	No need Ventilation, SELF(NATURAL) COOLING									
9.ONE MINUTE DRY WITHSTAND POWER	3500V									
a)Frequency voltage.	50Hz									
b)Impulse voltage	12kA									
MECHANICAL DATA										
1.NO.OF LAMINATIONS, SIZE, AND MATERIALOF BUSES	2 platings on Aluminium conductors; NICKEL+TIN 4W, 4.5W, 5W, also 6W within same enclosure(EAE is the only company in the world for making this)									
a)PHASE										
Continuous CURRENT	5000A	4000A	3200A	2500A	2000A	1600A	1250A	1000A	800A	630A
Width cross section in mm sq	3600mm ²	2400mm ²	1920mm ²	1320mm ²	1200mm ²	960mm ²	660mm ²	480mm ²	330mm ²	300mm ²
Thickness in mm	6mm									
No. of Busbars	5000A : 3 Conductors 4000A, 3200A, 2500A : 2 Conductors 2000A & below : 1 Conductors									
Material	ALUMINIUM									
b)NEUTRAL										
Continuous CURRENT	5000A	4000A	3200A	2500A	2000A	1600A	1250A	1000A	800A	630A
Width cross section in mm sq	3600mm ²	2400mm ²	1920mm ²	1320mm ²	1200mm ²	960mm ²	660mm ²	480mm ²	330mm ²	300mm ²
Thickness in mm	6mm									
No. of Busbars	5000A : 3 Conductors 4000A, 3200A, 2500A : 2 Conductors 2000A & below : 1 Conductors									
Material	ALUMINIUM									
2.SHAPE										
	Rectangular									
3.EARTH BUS										
a)Continuous CURRENT	5000A	4000A	3200A	2500A	2000A	1600A	1250A	1000A	800A	
b)Width cross section in mm sq	7128mm ²	4848mm ²	4411mm ²	3912mm ²	2518mm ²	2314mm ²	2050mm ²	1894mm ²	1788mm ²	
c)Thickness in mm	2.5 mm									
d)No. of Busbars	Housing									
e)Material	Extruded Aluminium									
4.PAINTING										
a)Busbar	Nickel+ Tin Plating									
b)Enclosure Interior	Epoxy coating except meeting surfaces. Meeting surface: Aluminium									
c)Enclosure Exterior	Epoxy coated, 80-100 micron									
5.Busduct Supporting Structure										
	Hot dip galvanized steel									
6.Enclosure Details										
a) Material	Epoxy coated Extruded Aluminium									
b) Thickness in mm	2.5mm for Aluminium housing									
c)Continuous CURRENT	5000A	4000A	3200A	2500A	2000A	1600A	1250A	1000A	800A	
d)Height & Width in mm x mm	150X732	150X492	150X412	150X312	150X251	150X211	150X161	150X131	150X106	

CERTIFICATIONS	
Certifications for the IEC standards of the technical parameters	
VDE	(Germany)
KEMA	(The Netherlands)
CESI	(Italy)
IPH	(Germany)
E 90 – 120	(Germany)
GOST	(Russia)
S+	(Switzerland)
DEWA, ADDC	(U.A.E.)
TSE, TSEK	(Turkey)
Local Certificates	(Poland, Romania, Ukraine)
Quality System & Environmental Management	
ISO 9001-2000	
ISO 14001	
Type and Routine Tests:-	
Type tests as per relevant IEC/IS can be conducted and test reports can be furnished on the samples taken from the first lot of supply of Bus-trunking and accessories. These tests can be witnessed by the Client/ Client's representative.	
Routine Tests as per relevant IEC/IS can be conducted and test reports can be furnished for the entire lot of Bus-trunking and accessories. The Client/Client's representative may witness the tests at manufacturer's works on sampling basis.	