

SCHEDULE OF THE TECHNICAL INFORMATION
(INFORMATION TO BE SUPPLIED WITH TENDER)

18. capacitor bank

a: CAPACITOR

item	Description	TECHNICAL PARTICULARS
1	Manufacturer	parto khazen.co
2	Type of capacitor	PK 550/6.35 IDRI
3	Number of capacitors in parallel	14
4	Number of capacitors in series	3
5	Application standard	IEC 871
6	Assigned rated current ----- amp	86.66
7	Assigned rated voltage ----- kv	6.35
8	Assigned rated output ----- kvar	550
9	Normal capacitance ----- μ f	43.44
10	Variation in capacitance due to temperature variation (percent with respect to value at reference ambient temperature)	
	a) At lowest ambient temperature ----- %	<1%
	b) At upper limit of ambient temperature ----- %	<1%
11	Nominal rated voltage of elements ----- V	2116
12	Element construction	
	a) electrode	Aluminium foil
	b) solid dielectric	polypropylene film
	c) impregnant	jarlyc c101 PCB free

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13	a) minimum dielectric strength ----- v/m	61kv/mm
	b) maximum dielectric stress at rated voltage ---- v/m	65kv/mm
14	Number of elements connected in series and/or parallel per phase	42
15	Details of fusing arrangement and whether internal or external (current time characteristic of fuses to be provided)	INTERNAL FUSE
16	Minimum breakdown voltage of individual elements ----- V	1.14*Un
17	Details of mineral oil for impregnating medium	jarlyc c101 PCB free
18	Detail of alternative impregnating medium	Benzylated toluene & Dibenzylated toluene
19	Total losses at reference ambient temperature, at rated voltage and frequency ----- kw	0.082
20	total losses at lowest ambient temperature, at rated voltage and frequency ----- kw	0.055
21	total losses at upper ambient temperature, at rated voltage and frequency ----- kw	0.066
22	total weight of complete capacitor including all fittings and impregnating medium ----- kg	110

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item	Description	TECHNICAL PARTICULARS
23	Detail of fitting and parts detached for transport	6 hongers on sites
24	Weight of complete three phase capacitor bank arranged for transport	
	a) total ----- tones	2400kg
	b) heaviest packages ----- tones	600kg
25	Material of tank or container	stainless steel
26	thichness of tank or container	
	a) sides ----- mm	1.5
	b) bottom----- mm	1.5
	c) details of overall finish (including method of cleaning, primary and finishing paints)	60μm primary 60μm finishing
27	Type of connector at H.V terminal of coapacotor bank	NUT(M16)
28	Type of connector at nutral end of capacitor bank	NUT(M12)
29	Insulation level between terminal and container:	
	_ impulse withstand----- kv peak	95
	_ Power frequency withstand ----- kv rms	38
30	Creepage distance -----mm	370
31	a) Resistance of discharge resistor ----- ohm	1300kohm
	b) Temperature category	40/D
32	Container hottest spot temperature rise above ambient at rated powe ----- C	At rated operation the temperature rise of the case is +8 to +10 in shadow