

TEST REPORT

REPORT NO. IN 42804 VOC

STANDARD NO: EN 60831-1

TEST DATE:

14/08/2021 -20/08/2021P/I NO. : IR-20210523-2 dtd:23.05.2021

PRODUCT: 20 KVAR, 440V, 3PH, 50Hz, NORMAL DUTY MPP TYPE CAPCITOR UNITS.

Sr. No.	REQUIREMENT /TEST	SPECIFICATIONS	RESULT	REMARK
1.	KVAR Rating	20 KVAR	20 KVAR	PASS
2.	Voltage Rating	440 V	440 V	PASS
3.	Basic Mfd value in Mfd	164.5µfd	164.5µfd	PASS
4.	Sr. No. of the Capacitor	A881746	A881746	PASS
5.	Capacitor Type	NORMAL DUTY	NORMAL DUTY	PASS
6.	Frequency	50 Hz or 60Hz	50Hz	
7.1.	Capacitance Measurement and Output Calculation before H ₂	-5% to +15% for units and ranges upto 100 KVAR	165.8 µfd	PASS
7.2.	Capacitance Measurement and Output Calculation after H ₂	0% to 10% for units and ranges above 100 KVAR	165.8 µfd	PASS
8.	Measurement of the tangent of the loss angle (tan δ) of the capacitor	Shall not exceed value declared by manufacture	0.46 Watt/Var	PASS
9.	Voltage tests between Terminals High Voltage test	2.15 x Rated Voltage for 2 sec	Withstood	PASS
10.	Voltage tests between terminals and container	3 KV AC for 10 Sec	Withstood	PASS
11.	Test of internal discharge device	In 3 min reduces to 75 % or less	31 Sec	PASS
12.	Sealing Test Leakage Test	75°C for 2 Hrs	No Leakage	PASS
13.	<p>Guide for Installation and Operation of L.T. Power Capacitors: The installation manual attached herewith</p> <p>General Choice of rated Voltage Operating temperature Installation High Ambient air temperature Evaluation of losses Special Service conditions Over voltages Overload currents Switching and protective devices and connections Capacitors connected to system with Audio frequency remote control</p> <p>EMC</p> <p>Immunity</p>		The Installation manual attached	PASS



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RATING PLATE DETAILS

MANUFACTURER	M/s. SHREEM ELECTRIC LTD
IDENTIFICATION NUMBER AND MANUFACTURING YEAR	A881746 08-2021
RATED OUTPUT Q_N IN KVAR	20Kvar
RATED VOLTAGE U_N IN VOLTS	440/3PHASE
RATED FREQUENCY f_N IN Hz	50
TEMPERATURE CATEGORY	-40/D
DISCHARGE DEVICE	Ext. Fitted
REFERENCE OF SELF HEALING DESIGN	MPP (SH)
CONNECTION SYMBOL	Delta (Δ)
INTERNAL FUSES	No
INDICATION OF OVERPRESSURE OR THERMAL DISCONNECTOR	Provided
INSULATION LEVEL U_i IN kV	3Kv
REFERENCE TO IEC 60831	IEC 60831-1



CONCLUSION: Place and date of inspection at Shreem Electric limited located in Kolhapur, India on 14/08/2021 and the sample test performed by manufacturer from 14/08/2021 to 20/08/2021. Sample test witnessed by our SAI inspector in laboratory of the manufacturer and concluded that the goods are in conformity with standard No.: EN 60831-1

Furthermore, we confirm that the test report is acceptable and the manufacturer's laboratory found to be as qualified.

Manufacturer's Representative

S.A.I. Representative



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