

## TEST REPORT

REPORT NO. IN 42804 VOC  
STANDARD NO: EN 60831-1  
14/08/2021 -20/08/2021P/I NO. : IR-20210523-2 dtd:23.05.2021

TEST DATE:

PRODUCT: 20 KVAR, 440V, 3PH, 50Hz, HEAVY DUTY FTCAP MPP TYPE CAPACITOR 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  | 164.5 µfd                                      | 164.5µfd                         | PASS   |
| 4.      | Sr. No. of the Capacitor  | A88447   | A88447                           | PASS   |
| 5.      | Capacitor Type  | Heavy Duty cap                                 | Heavy Duty cap                   | PASS   |
| 6.      | Frequency   | 50 Hz or 60Hz                                  | 50 HZ                            | PASS   |
| 7.1     | Capacitance Measurement and Output Calculation before H <sub>2</sub>  | -5% to 15% for units and ranges upto 100 KVAR  | 166.5 µfd                        | PASS   |
| 7.2     | Capacitance Measurement and Output Calculation after H <sub>2</sub>   | 0% to 10% for units and ranges above 100 KVAR  | 166.5 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/Ar                     | 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 reduce to 75 % or less                | 30 Sec                           | PASS   |
| 12      | Sealing Test Leakage Test   | 75°C for 2 Hrs                                 | No leakage                       | PASS   |
| 13      | <p><b>Guide for Installation and Operation of L.T. Power Capacitors:</b></p> <p>General</p> <p>Choice of rated Voltage</p> <p>Operating temperature</p> <p>Installation</p> <p>High Ambient air temperature</p> <p>Evaluation of losses</p> <p>Special Service conditions</p> <p>Over voltages</p> <p>Overload currents</p> <p>Switching and protective devices and connections</p> <p>Capacitors connected to system with Audio frequency remote control</p> <p><b>EMC</b></p> <p>Immunity</p> |  | The installation manual attached | Pass   |



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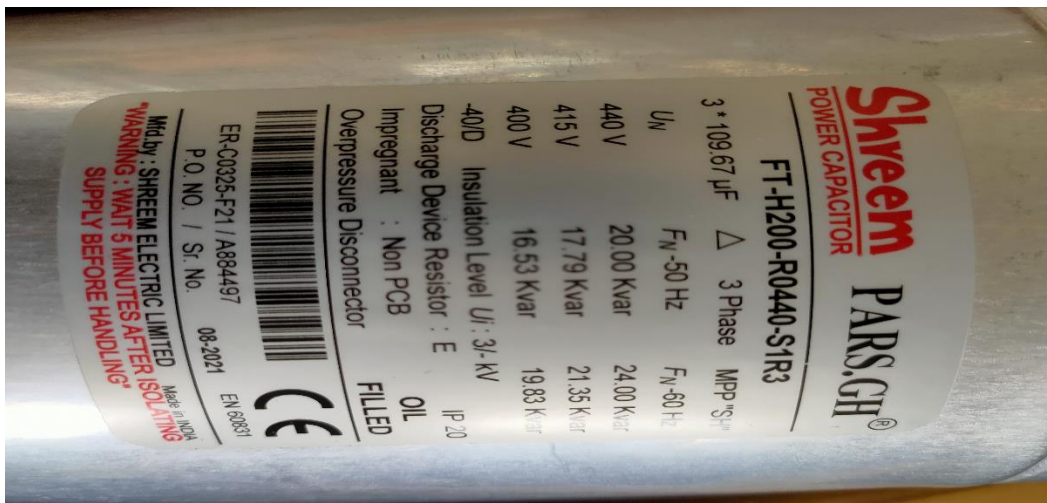
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### RATING PLATE DETAILS

|  |                         |
|--|-------------------------|
| MANUFACTURER                                       | M/s.ShreemElectric Ltd. |
| IDENTIFICATION NUMBER AND MANUFACTURING YEAR       | A88447 08-2021          |
| RATED OUTPUT $Q_N$ IN KVAR                         | 20Kvar                  |
| RATED VOLTAGE $U_N$ IN VOLTS                       | 440 volt                |
| RATED FREQUENCY $f_N$ IN Hz                        | 50 HZ                   |
| TEMPERATURE CATEGORY                               | -40/D                   |
| DISCHARGE DEVICE                                   | Ext.Fitted              |
| REFERENCE OF SELF HEALING DESIGN                   | MPP (SH)                |
| CONNECTION SYMBOL                                  | Delta ( $\Delta$ )      |
| INTERNAL FUSES                                     | No                      |
| INDICATION OF OVERPRESSURE OR THERMAL DISCONNECTOR | Provided Internally     |
| INSULATION LEVEL $U_i$ IN KV                       | 3 Kv                    |
| 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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