PRT
Three phase Power Capacitor

PRT power capacitors

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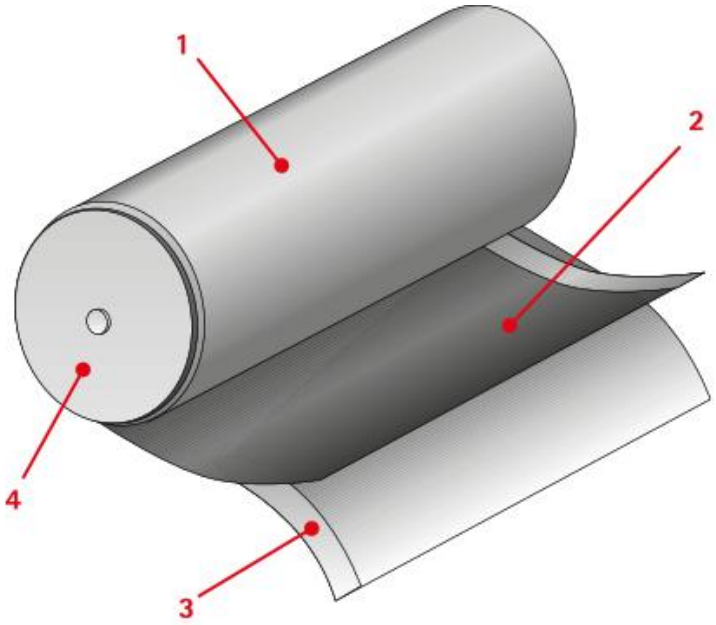
PRT power capacitors

METALIZED POLYPROPYLENE FILM TECHNOLOGY

- high gradient metallized polypropylene, for excellent voltage performances
- Wave-cut technology, to better stand the inrush currents
- Vacuum treatment before filling, to improve capacitor life expectancy



1 CAPACITIVE ELEMENT

2 METALIZED POLYPROPYLENE FILM (ON ONE SIDE ONLY)

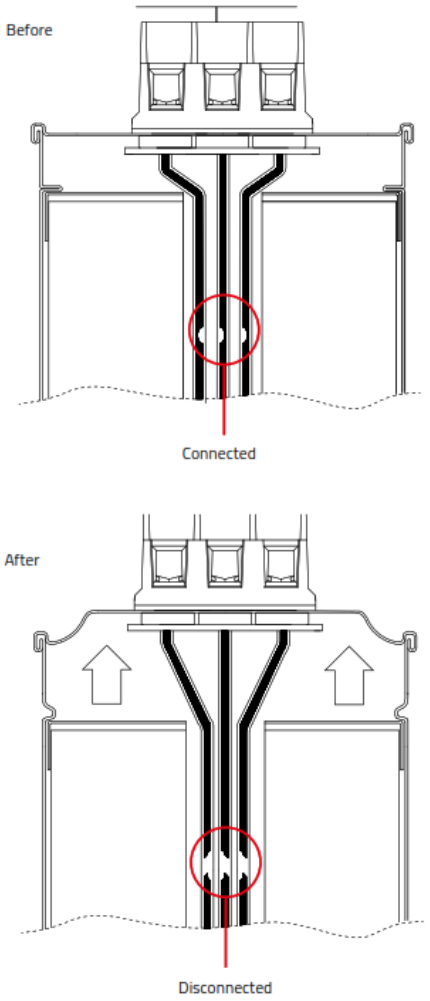
3 EDGE FREE FROM METALLIZATION

4 CONTACT AREA

PRT power capacitors

OVERPRESSURE DISCONNECTOR

- 3 overpressure disconnectors, one for each phase, for a total disconnection for supply
- Top lid made of steel
- Top lid bending in case of activation, less energy required



PRT power capacitors

TERMINAL BOARD

- The terminal board is made of self-extinguishing fiberglass-reinforced nylon
- The strip accommodates the three terminals and provides IP20 degree of protection.
- IP54 cover available

PRT power capacitors

DISCHARGE RESISTORS

- The discharge resistors are always connected and supplied
- Resistors are external in order to do nor overheat the capacitor element
- SMD technology resistor, smaller, reduced thermal impact.

PRT power capacitors

INTERNAL LAYOUT

- Cylindrical casing of extruded aluminum.
- Biodegradable vegetable oil filler.
- **Resin and gas filler for the full dry technology, DPRT series**
- Copper solid cylindrical connector or copper plane conductor.

PRT power capacitors

PERFORMANCES

GENERAL CHARACTERISTICS	
Rated voltage (Un)	230 - 690 V
Rated frequency	50 Hz (60 Hz on request)
Tolerance on capacitance	- 5 % / + 5%
Temperature class	- 25 ° C / + 55° C
Dielectric losses	≤ 0,2 W/kvar
Total losses (at the terminals)	≤ 0,5 W/kvar
Insulation level	3/15 kV Ue ≤ 660 Vac
Max. permitted current	1,5 In
Maximum peak value of the current transient	≤ 200 In
Voltage test between the terminals	2.15 Un for 2''
Voltage test between the terminals and contanier	3 KV per 10''

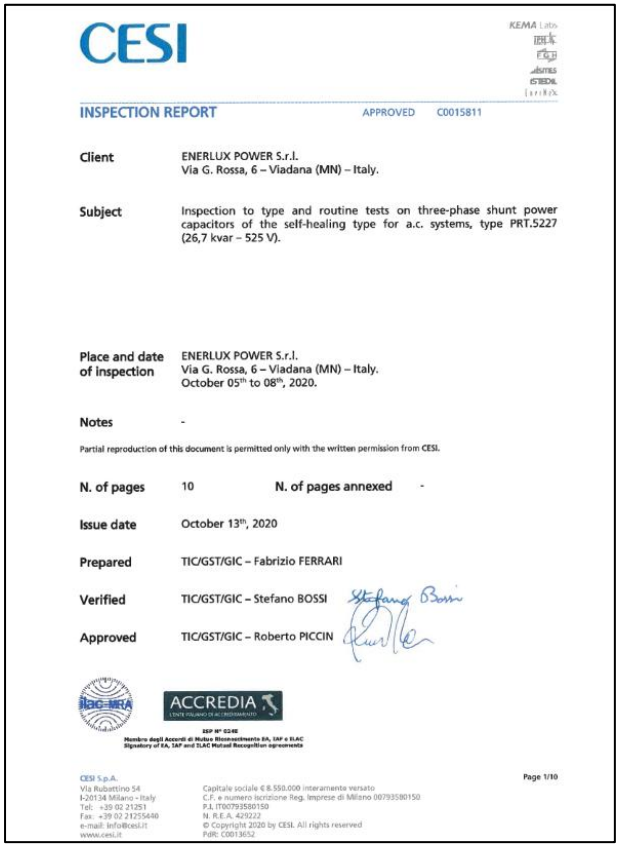
PRT power capacitors

PERFORMANCES

GENERAL CHARACTERISTICS	
Discharge resistors	External (reduction to 75 V within 3 min)
Service	Continuous
Installation	Indoor
Cooling	Natural or forced air
Max permissible humidity	95%
Altitude	≤ 2000 (m a.s.l.)
Degree of protection	IP20 (IP54 upon request)
Expected life	>130.000 h (classe D) - >150.000 h (classe C)
Fixing	With M12 stud
Reference standards	IEC 60831-1/2
Number of switching operation	Max 5000 switchings per year according to IEC 60831-1

PRT power capacitors

APPROVALS



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INSPECTION REPORT APPROVED C0015811

Client	ENERLUX POWER S.r.l. Via G. Rossa, 6 – Viadana (MN) – Italy.
Subject	Inspection to type and routine tests on three-phase shunt power capacitors of the self-healing type for a.c. systems, type PRT.5227 (26,7 kvar – 525 V).
Place and date of inspection	ENERLUX POWER S.r.l. Via G. Rossa, 6 – Viadana (MN) – Italy. October 05th to 08th, 2020.
Notes	-

N. of pages	10	**N. of pages annexed**	-
Issue date	October 13th, 2020		
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N. R.E.A. 429222

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ISO 9001:2015

PER LE SEGUENTI ATTIVITA' / *FOR THE FOLLOWING ACTIVITIES*

Progettazione e produzione di condensatori, apparecchiature, sistemi di rifasamento industriale e filtri armonici per bassa, media e alta tensione
Design and production of capacitors, equipment, systems for power factor correction and harmonic filters for low, medium and high voltage

Ulteriori informazioni riguardanti l'applicabilità dei requisiti ISO 9001:2015 possono essere ottenute consultando l'organizzazione
Further clarifications regarding the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization

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