

TECHNICAL CHARACTERISTICS INTACT PLUS RCM-INP

General

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|---------------------------------|--|
| Standards: | IEC 60831-1:2014, UL810, VDE 0560-46:2014-11 |
| Origin: | 100% made in Italy |
| Voltage range: | 220 V to 550 V |
| Frequency: | 50 Hz / 60 Hz |
| Power range: | 2,5 kVar to 50 kVar |
| Dielectric losses: | < 0,2 W/kVar |
| Total losses: | < 0,5 W/kVar |
| Capacitance tolerance: | ± 5% |
| Voltage test between terminals: | 2,15 Un, 50 Hz, 10 seconds (routine test) |
| Voltage test between terminals: | 3,00 Un, 50 Hz, 60 seconds (type test) |
| Voltage test terminal / case: | ≤ 525 V 3000 V, 50 Hz for 10 seconds or > 525 V 3660 V, 50 Hz for 10 seconds |
| Insulation level: | 3 / 8 kV |
| External discharge resistor: | 50 V in 1 min. 1 kVar - 30 kVar or 75 V in 3 min. 30,5 kVar - 62,5 kVar |
| Cooling: | Natural air or forced ventilation |

Operating Conditions

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|---------------------------|---|
| Ambient temperature: | -45 °C / 60 °C |
| Humidity: | up to 95% |
| Altitude above sea level: | 2000 m. |
| Overvoltage: | Un+10% for 8 hrs. daily Un+15% for 30 min. daily Un+20% for 5 min. daily Un+30% for 1 min. daily |
| Overcurrent: | up to 1,8 x In (Including Harmonics) |
| Inrush current: | up to 250 x In |
| Service life: | up to 160.000 hrs. |
| Harmonic presence: | NLL < 20% |

Safety Features

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|--------------------|---|
| Safety: | Overpressure disconnecter on 3 phase + Incorporated fuses + Self-healing + Discharge device |
| Protection degree: | IP20 |

Construction

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|---------------|--|
| Casing: | Aluminium can |
| Dielectric: | Special polypropylene film with slope metallisation and wave-cut |
| Impregnation: | Special polyurethane resin, Non-PCB |

Installation

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|-----------------------|--|
| Mounting position: | Vertical preferable for better cooling |
| Fastening & Earthing: | Through 1 point, screw M12 at the bottom |

RCM-INP CAPACITOR RATED VOLTAGE 400 V / 415 V - 3 PHASE - 50 Hz / 60 Hz

| POWER AT SYSTEM VOLTAGE 50 Hz | | POWER AT SYSTEM VOLTAGE 60 Hz | | In 50 Hz CURRENT | | In 60 Hz CURRENT | | RATED CAPACITANCE | AVAILABLE DIMENSIONS* | | | TERMINAL TYPE | PCS/BOX | PCS/BOX | PCS/BOX |
|-------------------------------|------------|-------------------------------|------------|------------------|---------|------------------|---------|-------------------|-----------------------|----------------|----------------|---------------|-----------|--------------------------|------------|
| 400 V kVar | 415 V kVar | 400 V kVar | 415 V kVar | 400 V A | 415 V A | 400 V A | 415 V A | 3 x μ F | ϕ x H (7) | ϕ x H (8) | ϕ x H (9) | mmq | ϕ 85 | ϕ 100 ϕ 116 | ϕ 136 |
| 2,5 | 2,7 | 3,0 | 3,2 | 3,6 | 3,7 | 4,3 | 4,5 | 16,6 | 85 x 130 | 85 x 185 | - | MT 16 | 9 | - | - |
| 5 | 5,4 | 6,0 | 6,5 | 7 | 7,5 | 8,7 | 9,0 | 33,2 | 85 x 130 | 85 x 185 | - | MT 16 | 9 | - | - |
| 6,25 | 6,72 | 7,5 | 8,1 | 9,02 | 9,34 | 10,8 | 11,2 | 41,4 | 85 x 185 | - | - | MT 16 | 9 | - | - |
| 10 | 10,8 | 12,0 | 12,9 | 14 | 15,0 | 17,3 | 18,0 | 66,3 | 85 x 225 | - | - | MT 16 | 9 | - | - |
| 12,5 | 13,4 | 15,0 | 16,1 | 18,0 | 18,7 | 21,6 | 22,5 | 82,9 | 100 x 225 | 85 x 260 | - | MT 25 / 16 | 9 | 5 | - |
| 15 | 16,1 | 18,0 | 19,4 | 22 | 22,5 | 26,0 | 26,9 | 99,5 | 100 x 225 | - | 85 x 285 | MT 25 / 16 | 9 | 5 | - |
| 20 | 21,5 | 24,0 | 25,8 | 29 | 29,9 | 34,6 | 35,9 | 132,6 | 116 x 225 | 100 x 260 | 100 x 300 | MT 25 | 9 | 5 | - |
| 25 | 26,9 | 30,0 | 32,3 | 36 | 37,4 | 43,3 | 44,9 | 165,8 | 136 x 225 | 116 x 260 | 100 x 300 | MT 25 | - | 5 | 4 |
| 30 | 32,3 | 36,0 | 38,7 | 43 | 44,9 | 51,9 | 53,9 | 198,9 | 136 x 225 | - | 116 x 285 | MT 25 | - | 5 | 4 |
| 40 | 43,0 | 48,0 | 51,6 | 58 | 59,9 | 69,3 | 71,9 | 265,3 | 136 x 300 | - | - | MT 35 | - | - | 4 |
| 50 | 53,8 | 60,0 | 64,6 | 72 | 74,8 | 86,6 | 89,8 | 331,6 | 136 x 375 | - | - | MT 35 | - | - | 2 |

RCM-INP CAPACITOR RATED VOLTAGE 440 V / 450 V - 3 PHASE - 50 Hz / 60 Hz

| POWER AT SYSTEM VOLTAGE 50 Hz | | POWER AT SYSTEM VOLTAGE 60 Hz | | In 50 Hz CURRENT | | In 60 Hz CURRENT | | RATED CAPACITANCE | AVAILABLE DIMENSIONS* | | | TERMINAL TYPE | PCS/BOX | PCS/BOX | PCS/BOX |
|-------------------------------|------------|-------------------------------|------------|------------------|---------|------------------|---------|-------------------|-----------------------|----------------|----------------|---------------|-----------|--------------------------|------------|
| 440 V kVar | 450 V kVar | 440 V kVar | 450 V kVar | 440 V A | 450 V A | 440 V A | 450 V A | 3 x μ F | ϕ x H (7) | ϕ x H (8) | ϕ x H (9) | mmq | ϕ 85 | ϕ 100 ϕ 116 | ϕ 136 |
| 2,5 | 2,6 | 3,0 | 3,1 | 3,3 | 3,4 | 3,9 | 4,0 | 13,7 | 85 x 130 | 85 x 185 | - | MT 16 | 9 | - | - |
| 5 | 5,2 | 6,0 | 6,3 | 7 | 6,7 | 7,9 | 8,0 | 27,4 | 85 x 130 | 85 x 185 | - | MT 16 | 9 | - | - |
| 6,25 | 6,5 | 7,5 | 7,9 | 8,20 | 8,4 | 9,8 | 10,1 | 34,3 | 85 x 185 | - | - | MT 16 | 9 | - | - |
| 10 | 10,5 | 12,0 | 12,5 | 13 | 13,4 | 15,7 | 16,1 | 54,8 | 85 x 225 | - | - | MT 16 | 9 | - | - |
| 12,5 | 13,1 | 15,0 | 15,7 | 16,4 | 16,8 | 19,7 | 20,1 | 68,5 | 100 x 225 | 85 x 260 | - | MT 25 / 16 | 9 | 5 | - |
| 15 | 15,7 | 18,0 | 18,8 | 20 | 20,1 | 23,6 | 24,1 | 82,2 | 100 x 225 | 85 x 260 | - | MT 25 / 16 | 9 | 5 | - |
| 20 | 20,9 | 24,0 | 25,1 | 26 | 26,8 | 31,5 | 32,2 | 109,6 | 116 x 225 | 100 x 260 | - | MT 25 | 9 | 5 | - |
| 25 | 26,1 | 30,0 | 31,4 | 33 | 33,5 | 39,3 | 40,2 | 137 | 136 x 225 | 116 x 260 | 100 x 300 | MT 25 | - | 5 | 4 |
| 30 | 31,4 | 36,0 | 37,6 | 39 | 40,2 | 47,2 | 48,3 | 164,4 | 136 x 225 | - | 116 x 285 | MT 25 | - | 5 | 4 |
| 40 | 41,8 | 48,0 | 50,2 | 52 | 53,6 | 62,9 | 64,4 | 219,2 | 136 x 300 | - | - | MT 35 | - | - | 4 |
| 50 | 52,3 | 60,0 | 62,7 | 66 | 67,1 | 78,7 | 80,5 | 274 | 136 x 375 | - | - | MT 35 | - | - | 2 |

RCM-INP CAPACITOR RATED VOLTAGE 525 V / 550 V - 3 PHASE - 50 Hz / 60 Hz

| POWER AT SYSTEM VOLTAGE 50 Hz | | POWER AT SYSTEM VOLTAGE 60 Hz | | In 50 Hz CURRENT | | In 60 Hz CURRENT | | RATED CAPACITANCE | AVAILABLE DIMENSIONS* | | | TERMINAL TYPE | PCS/BOX | PCS/BOX | PCS/BOX |
|-------------------------------|------------|-------------------------------|------------|------------------|---------|------------------|---------|-------------------|-----------------------|----------------|----------------|---------------|-----------|--------------------------|------------|
| 525 V kVar | 550 V kVar | 525 V kVar | 550 V kVar | 525 V A | 550 V A | 525 V A | 550 V A | 3 x μ F | ϕ x H (7) | ϕ x H (8) | ϕ x H (9) | mmq | ϕ 85 | ϕ 100 ϕ 116 | ϕ 136 |
| 2,5 | 2,7 | 3,0 | 3,3 | 2,7 | 2,9 | 3,3 | 3,4 | 9,6 | 85 x 130 | 85 x 185 | - | MT 16 | 9 | - | - |
| 5 | 5,5 | 6,0 | 6,6 | 5 | 5,7 | 6,6 | 6,9 | 19,2 | 85 x 130 | 85 x 185 | - | MT 16 | 9 | - | - |
| 6,25 | 6,9 | 7,5 | 8,2 | 6,87 | 7,2 | 8,3 | 8,7 | 24,1 | 85 x 225 | 85 x 185 | - | MT 16 | 9 | - | - |
| 10 | 11,0 | 12,0 | 13,2 | 11 | 11,5 | 13,2 | 13,8 | 38,5 | 100 x 225 | 85 x 260 | - | MT 25 / 16 | 9 | 5 | - |
| 12,5 | 13,7 | 15,0 | 16,4 | 13,7 | 14,4 | 16,5 | 17,3 | 48,1 | 100 x 225 | 100 x 260 | 85 x 285 | MT 25 / 16 | 9 | 5 | - |
| 15 | 16,4 | 18,0 | 19,7 | 16 | 17,3 | 19,8 | 20,7 | 57,7 | 116 x 225 | 100 x 260 | 100 x 300 | MT 25 | - | 5 | - |
| 20 | 21,9 | 24,0 | 26,3 | 22 | 23,0 | 26,4 | 27,6 | 77,0 | 136 x 225 | 116 x 260 | 100 x 300 | MT 25 | - | 5 | - |
| 25 | 27,4 | 30,0 | 32,9 | 27 | 28,8 | 33,0 | 34,5 | 96,2 | 136 x 225 | - | 116 x 285 | MT 25 | - | 5 | 4 |
| 30 | 32,9 | 36,0 | 39,5 | 33 | 34,5 | 39,6 | 41,5 | 115,5 | 136 x 300 | - | - | MT 25 | - | - | 4 |
| 40 | 43,9 | 48,0 | 52,7 | 44 | 46,1 | 52,8 | 55,3 | 154,0 | 136 x 300 | - | - | MT 35 | - | - | 4 |
| 50 | 54,9 | 60,0 | 65,8 | 55 | 57,6 | 66,0 | 69,1 | 192,5 | 136 x 375 | - | - | MT 35 | - | - | 2 |

Up to 37,5 kVar 400 V or 50 kVar 525 V capacitors are also available in single-phase version.
Other capacitor powers and voltages are available on request. Contact us info@gruppenergia.it

*All dimensions are in "mm" and will be confirmed at the time of order.