

**CONDENSATORI CILINDRICI  
MONOFASE E TRIFASE**

**SINGLE PHASE AND THREE PHASE  
CAPACITORS**



**CAP**

**3**

# CRM25 CONDENSATORI CILINDRICI MONOFASE SINGLE PHASE CAPACITORS



| Ue   | Hz    | U <sub>MAX1</sub> |
|------|-------|-------------------|
| 230V | 50/60 | 250V              |
| 400V | 50/60 | 440V              |
| 460V | 50/60 | 500V              |
| 550V | 50/60 | 600V              |
| 690V | 50/60 | 750V              |
| 750V | 50/60 | 825V              |
| 850V | 50/60 | 900V              |

## Generalità

- Custodia metallica con grado di protezione IP00 (altri a richiesta)
- Dispositivo di sicurezza interno a sovrappressione
- Impregnazione in olio o in resina

Tutti i componenti utilizzati sono conformi alle prescrizioni normative in materia di sicurezza.

## Generalities

- *Metallic case with protection degree IP00 (other on request)*
- *An inside overpressure protection system*
- *Resin or oil impregnation*

All components inside these products are compliant with Safety Regulations.



CRM25  
CRM25 3In

| CARATTERISTICHE TECNICHE                | TECHNICAL CHARACTERISTICS  |                         |
|---|--|-------------------------|
| Tensione nominale di impiego            | Ue = 230 ÷ 850V  | Rated voltage           |
| Frequenza nominale                      | 50/60Hz  | Rated frequency         |
| Sovraccarico max In                     | 1.3xIn (serie CRM25)<br>3xIn (serie CRM25 3In)   | Max current overload In |
| Sovraccarico max Vn                     | 1.1xVn   | Max voltage overload Vn |
| Livello di isolamento                   | 3/15kV<br>Ue ≤ 660V  | Insulating voltage      |
| Classe di temperatura                   | -25/D  | Temperature range       |
| Tolleranza di capacità                  | -5+10%   | Capacitance tolerance   |
| Prova di tensione tra i terminali       | 2.15xVn per 10 sec.  | Terminal voltage test   |
| Tipologie costruttive                   | polipropilene metallizzato (serie CRM25)<br>Carta bimetallizzata (serie CRM25 3In)<br>metallized polypropylene (CRM25)<br>Bimetalized paper (series CRM25 3In) | Structural typology     |
| Norme di riferimento per i condensatori | CEI EN 60831-1/2   | Capacitors standards    |

|                    | CODICE<br>CODE     | TENSIONE NOM.<br>RATED VOLTAGE<br>Ue (V) | TENSIONE MAX.<br>MAX. VOLTAGE<br>U <sub>MAX</sub> (V) | POTENZA<br>POWER<br>50Hz<br>(kvar) | POTENZA<br>POWER<br>60Hz<br>(kvar) | CAPACITÀ<br>CAPACITANCE<br>(µF) | DIM<br>(CAP.13)<br>(CHAR.13) |
|--------------------|--------------------|--|---|------------------------------------|------------------------------------|---------------------------------|------------------------------|
| CRM25              | CRM25-11B-0,41-230 | 230                                      | 250   | 0.41                               | 0.5                                | 25                              | 1                            |
|                    | CRM25-11B-0,83-230 | 230                                      | 250   | 0.83                               | 1                                  | 50                              | 2                            |
|                    | CRM25-11A-1,66-230 | 230                                      | 250   | 1.66                               | 2                                  | 100                             | 4                            |
|                    | CRM25-11A-0,83-400 | 400                                      | 440   | 0.83                               | 1                                  | 16.6                            | 1                            |
|                    | CRM25-11B-1,04-400 | 400                                      | 440   | 1.04                               | 1.25                               | 20.7                            | 1                            |
|                    | CRM25-11C-1,66-400 | 400                                      | 440   | 1.66                               | 2                                  | 33.3                            | 3                            |
|                    | CRM25-11B-2,08-400 | 400                                      | 440   | 2.08                               | 2.5                                | 41.4                            | 3                            |
|                    | CRM25-11A-3,33-400 | 400                                      | 440   | 3.33                               | 4                                  | 66.6                            | 4                            |
|                    | CRM25-11A-4,16-400 | 400                                      | 440   | 4.16                               | 5                                  | 82.7                            | 4                            |
|                    | CRM25-11B-0,83-460 | 460                                      | 500   | 0.83                               | 1                                  | 12.5                            | 2                            |
|                    | CRM25-11B-1,66-460 | 460                                      | 500   | 1.66                               | 2                                  | 25                              | 3                            |
|                    | CRM25-11B-3,33-460 | 460                                      | 500   | 3.33                               | 4                                  | 50                              | 4                            |
|                    | CRM25-11B-3,72-460 | 460                                      | 500   | 3.72                               | 4.5                                | 56                              | 4                            |
|                    | CRM25-11B-0,83-550 | 550                                      | 600   | 0.83                               | 1                                  | 8.7                             | 1                            |
|                    | CRM25-11A-1,66-550 | 550                                      | 600   | 1.66                               | 2                                  | 17.5                            | 2                            |
| CRM25-11A-3,33-550 | 550                | 600                                      | 3.33  | 4                                  | 35                                 | 4                               |                              |
| CRM25 3In          | CRM25-11A-2,5-400  | 400                                      | 440   | 2.5                                | 3                                  | 50                              | 4                            |
|                    | CRM25-11A-2,5-460  | 460                                      | 500   | 2.5                                | 3                                  | 37                              | 4                            |
|                    | CRM25-11A-2,5-550  | 550                                      | 600   | 2.5                                | 3                                  | 26                              | 4                            |
|                    | CRM25-11A-2,5-690  | 690                                      | 750   | 2.5                                | 3                                  | 16.7                            | 4                            |
|                    | CRM25-11A-2,5-750  | 750                                      | 825   | 2.5                                | 3                                  | 14.2                            | 4                            |
|                    | CRM25-11A-2,5-850  | 850                                      | 900   | 2.5                                | 3                                  | 11                              | 4                            |

1 Massimo valore ammissibile secondo norma CEI EN 60831-1 art. 20.1

1 Maximum allowed value according to CEI EN 60831-1 art. 20.1



| Ue   | Hz    | U <sub>MAX1</sub> |
|------|-------|-------------------|
| 230V | 50/60 | 250V              |
| 400V | 50/60 | 440V              |
| 415V | 50/60 | 450V              |
| 440V | 50/60 | 480V              |
| 460V | 50/60 | 500V              |
| 525V | 50/60 | 580V              |

### Generalità

- Custodia metallica con grado di protezione IP20
- Dispositivo di sicurezza interno a sovrappressione
- Impregnazione in resina (in olio a richiesta)

Tutti i componenti utilizzati sono conformi alle prescrizioni normative in materia di sicurezza.

### Generalities

- *Metallic case with protection degree IP20*
- *An inside overpressure protection system*
- *Resin impregnation (oil impregnation on request)*

All components inside these products are compliant with Safety Regulations.



CRT



CRT  
Reinforced Dielectric

| CARATTERISTICHE TECNICHE                | TECHNICAL CHARACTERISTICS                              |                                     |
|---|--|-------------------------------------|
| Tensione nominale di impiego            | U <sub>e</sub> = 230 ÷ 525V                            | Rated voltage                       |
| Frequenza nominale                      | 50/60Hz  | Rated frequency                     |
| Sovraccarico max I <sub>n</sub>         | 1.3xI <sub>n</sub>                                     | Max current overload I <sub>n</sub> |
| Sovraccarico max V <sub>n</sub>         | 1.1xV <sub>n</sub>                                     | Max voltage overload V <sub>n</sub> |
| Livello di isolamento                   | 3/15kV<br>U <sub>e</sub> ≤ 660V                        | Insulating voltage                  |
| Classe di temperatura                   | -25/D  | Temperature range                   |
| Tolleranza di capacità                  | -5 ÷ +10%  | Capacitance tolerance               |
| Prova di tensione tra i terminali       | 2.15xV <sub>n</sub> per 10 sec.                        | Terminal voltage test               |
| Dielettrico                             | polipropilene metallizzato<br>metallized polypropylene | Dielectric                          |
| Norme di riferimento per i condensatori | CEI EN 60831-1/2                                       | Capacitors standards                |

| CODICE<br>CODE   | TENSIONE NOM.<br>RATED VOLTAGE | TENSIONE MAX.<br>MAX. VOLTAGE | POTENZA<br>POWER | POTENZA<br>POWER | CAPACITÀ<br>CAPACITANCE | DIM<br>(CAP.13) |
|------------------|--------------------------------|-------------------------------|------------------|------------------|-------------------------|-----------------|
|                  | U <sub>e</sub> (V)             | U <sub>MAX</sub> (V)          | 50Hz<br>(kvar)   | 60Hz<br>(kvar)   | (μF)                    | (CHAP.13)       |
| CRT-78N-2.5-230  | 230                            | 250                           | 2.5              | 3                | 3x50                    | 11              |
| CRT-80N-5-230    | 230                            | 250                           | 5                | 6                | 3x100                   | 13              |
| CRT-81N-7.5-230  | 230                            | 250                           | 7.5              | 9                | 3x150                   | 14              |
| CRT-82N-10-230   | 230                            | 250                           | 10               | 12 <sup>2</sup>  | 3x200                   | 15              |
| CRT-78N-2.5-400  | 400                            | 440                           | 2.5              | 3                | 3x16.5                  | 11              |
| CRT-78N-5-400    | 400                            | 440                           | 5                | 6                | 3x33                    | 11              |
| CRT-79N-7.5-400  | 400                            | 440                           | 7.5              | 9                | 3x50                    | 12              |
| CRT-80N-10-400   | 400                            | 440                           | 10               | 12               | 3x66                    | 13              |
| CRT-81N-12.5-400 | 400                            | 440                           | 12.5             | 15               | 3x83                    | 14              |
| CRT-82N-15-400   | 400                            | 440                           | 15               | 18               | 3x100                   | 15              |
| CRT-82N-20-400   | 400                            | 440                           | 20               | 24 <sup>2</sup>  | 3x133                   | 15              |
| CRT-85N-25-400   | 400                            | 440                           | 25               | 30 <sup>2</sup>  | 3x166                   | 16              |

<sup>1</sup> Massimo valore ammissibile secondo norma CFI EN 60831-1 art. 20.1

<sup>1</sup> Maximum allowed value according to CFI EN 60831-1 art. 20.1



|                              | CODICE<br>CODE     | TENSIONE NOM.<br>RATED VOLTAGE<br>U <sub>e</sub> (V) | TENSIONE MAX.<br>MAX. VOLTAGE<br>U <sub>MAX</sub> (V) | POTENZA<br>POWER<br>50Hz<br>(kvar) | POTENZA<br>POWER<br>60Hz<br>(kvar) | CAPACITÀ<br>CAPACITANCE<br>(μF) | DIM<br>(CAP.13)<br>(CHAP.13) |
|------------------------------|--------------------|--|---|------------------------------------|------------------------------------|---------------------------------|------------------------------|
| CRT                          | CRT-78N-2.5-415    | 415  | 450   | 2.5                                | 3                                  | 3x15.5                          | 11                           |
|                              | CRT-78N-5-415      | 415  | 450   | 5                                  | 6                                  | 3x31                            | 13                           |
|                              | CRT-79N-7.5-415    | 415  | 450   | 7.5                                | 9                                  | 3x46                            | 12                           |
|                              | CRT-80N-10-415     | 415  | 450   | 10                                 | 12                                 | 3x62                            | 13                           |
|                              | CRT-81N-12.5-415   | 415  | 450   | 12.5                               | 15                                 | 3x77                            | 14                           |
|                              | CRT-82N-15-415     | 415  | 450   | 15                                 | 18                                 | 3x92                            | 15                           |
|                              | CRT-82N-20-415     | 415  | 450   | 20                                 | 24 <sup>2</sup>                    | 3x123                           | 15                           |
|                              | CRT-85N-25-415     | 415  | 450   | 25                                 | 30 <sup>2</sup>                    | 3x154                           | 16                           |
|                              | CRT-86N-30-415     | 415  | 450   | 30                                 | 36                                 | 3x185                           | 18                           |
|                              | CRT-78N-2.5-440    | 440  | 480   | 2.5                                | 3                                  | 3x14                            | 11                           |
|                              | CRT-78N-5-440      | 440  | 480   | 5                                  | 6                                  | 3x27.5                          | 13                           |
|                              | CRT-79N-7.5-440    | 440  | 480   | 7.5                                | 9                                  | 3x41                            | 12                           |
|                              | CRT-80N-10-440     | 440  | 480   | 10                                 | 12                                 | 3x55                            | 13                           |
|                              | CRT-81N-12.5-440   | 440  | 480   | 12.5                               | 15                                 | 3x68.5                          | 14                           |
|                              | CRT-82N-15-440     | 440  | 480   | 15                                 | 18                                 | 3x82                            | 15                           |
|                              | CRT-82N-20-440     | 440  | 480   | 20                                 | 24 <sup>2</sup>                    | 3x110                           | 15                           |
|                              | CRT-85N-25-440     | 440  | 480   | 25                                 | 30 <sup>2</sup>                    | 3x137                           | 16                           |
|                              | CRT-78N-5-460      | 460  | 500   | 5                                  | 6                                  | 3x12.5                          | 11                           |
|                              | CRT-79N-7.5-460    | 460  | 500   | 7.5                                | 9                                  | 3x25                            | 11                           |
|                              | CRT-80N-10-460     | 460  | 500   | 10                                 | 12                                 | 3x37.5                          | 12                           |
|                              | CRT-81N-12.5-460   | 460  | 500   | 12.5                               | 15                                 | 3x50                            | 13                           |
|                              | CRT-82N-15-460     | 460  | 500   | 15                                 | 18                                 | 3x63                            | 14                           |
|                              | CRT-82N-20-460     | 460  | 500   | 20                                 | 24 <sup>2</sup>                    | 3x75                            | 15                           |
|                              | CRT-85N-25-460     | 460  | 500   | 25                                 | 30 <sup>2</sup>                    | 3x100                           | 15                           |
|                              | CRT-78N-5-460      | 460  | 500   | 5                                  | 6                                  | 3x125.4                         | 16                           |
|                              | CRT-78N-2.5-525    | 525  | 580   | 2.5                                | 3                                  | 3x9.5                           | 11                           |
|                              | CRT-78N-5-525      | 525  | 580   | 5                                  | 6                                  | 3x19                            | 13                           |
|                              | CRT-79N-7.5-525    | 525  | 580   | 7.5                                | 9                                  | 3x29                            | 12                           |
|                              | CRT-80N-10-525     | 525  | 580   | 10                                 | 12                                 | 3x38.5                          | 13                           |
|                              | CRT-81N-12.5-525   | 525  | 580   | 12.5                               | 15                                 | 3x48                            | 14                           |
|                              | CRT-82N-15-525     | 525  | 580   | 15                                 | 18                                 | 3x58                            | 15                           |
|                              | CRT-82N-20-525     | 525  | 580   | 20                                 | 24                                 | 3x77                            | 15                           |
| CRT-85N-25-525               | 525                | 580  | 25  | 30                                 | 3x96                               | 16                              |                              |
| CRT<br>Reinforced Dielectric | CRT-78N-2.5-415RD  | 415  | 450   | 2.5                                | 3                                  | 3x15.5                          | 11                           |
|                              | CRT-78N-5-415RD    | 415  | 450   | 5                                  | 6                                  | 3x31                            | 11                           |
|                              | CRT-80N-7.5-415RD  | 415  | 450   | 7.5                                | 9                                  | 3x46                            | 13                           |
|                              | CRT-81N-10-415RD   | 415  | 450   | 10                                 | 12                                 | 3x62                            | 14                           |
|                              | CRT-82N-12.5-415RD | 415  | 450   | 12.5                               | 15                                 | 3x77                            | 15                           |
|                              | CRT-85N-12.5-415RD | 415  | 450   | 12.5                               | 15                                 | 3x77                            | 16                           |
|                              | CRT-82N-15-415RD   | 415  | 450   | 15                                 | 18                                 | 3x92                            | 15                           |
|                              | CRT-85N-15-415RD   | 415  | 450   | 15                                 | 18                                 | 3x92                            | 16                           |
|                              | CRT-84N-20-415RD   | 415  | 450   | 20                                 | 24 <sup>2</sup>                    | 3x123                           | 17                           |
|                              | CRT-86N-25-415RD   | 415  | 450   | 25                                 | 30 <sup>2</sup>                    | 3x154                           | 18                           |

1 Massimo valore ammissibile secondo norma CEI EN 60831-1 art. 20.1  
2 Classe di temperatura -40/B

1 Maximum allowed value according to CEI EN 60831-1 art. 20.1  
2 Temperature range -40/B