



ELECTRONICS PRODUCTS > PROTECTION CONTROL & TIME RELAYS > DIGITAL  
PROTECTION RELAY

DPR 3120N

Stock Keeping Unit (SKU): 270612

Multifunction Digital Protection Relay

Commercial Information

|                                     |              |
|-------------------------------------|--------------|
| Product Sales Code                  | 270612       |
| Package Unit                        | 1 pcs.       |
| Customs Tariff Number               | 853649000029 |
| Weight Per Unit Including Packaging | 0.1313 kg.   |

Technical Information

| DIMENSIONS             |          |
|------------------------|----------|
| Width                  | 2 DIN    |
| PRODUCT SPECIFICATIONS |          |
| Connection Type        | Screw    |
| Phase Loss Interval    | 85-520 V |
| Operating Mode 1       | +        |
| Operating Mode 2       | +        |
| OUTPUT TYPE            | Relay    |
| RTC ( RealTime Clock)  | -        |
| CONNECTION DATA        |          |
| Connection Type        | 3P4W     |

## MONITORING FUNCTIONS

|                                     |                   |
|-------------------------------------|-------------------|
| Phase Failure Delay Time            | <b>0 - 999 ms</b> |
| Phase Sequence Delay Time           | <b>0 - 999 ms</b> |
| Asymmetry Protection Range Limit    | <b>0-30%</b>      |
| Asymmetry Protection Delay Time     | <b>0-999 sn</b>   |
| Voltage Protection Upper Limit      | <b>300 V</b>      |
| Voltage Protection Lower Limit      | <b>85 V</b>       |
| Frequency Protection Upper Limit    | <b>65 Hz</b>      |
| Frequency Protection Lower Limit    | <b>45 Hz</b>      |
| PTC Protection High-Value Threshold | -                 |
| PTC Protection Delay Time           | -                 |

## PTC Short-Circuit Protection

|                 |   |
|-----------------|---|
| Threshold value | - |
| Delay Time      | - |

## RELAY OUTPUT

|                        |                         |
|------------------------|-------------------------|
| Number of Outputs      | <b>2</b>                |
| Type                   | <b>2 C/O (SPDT)</b>     |
| Max. Switching Current | <b>10A / 250VAC</b>     |
| Max. Switching Power   | <b>1250VA</b>           |
| Electrical Life        | <b>= 10<sup>7</sup></b> |
| Mechanical Life        | <b>5x10<sup>4</sup></b> |

## POWER SUPPLY

|                       |                      |
|-----------------------|----------------------|
| Frequency             | <b>45-65 Hz</b>      |
| External Power Supply | -                    |
| Voltage               | <b>85...300 V AC</b> |
| Power Consumption     | <b>&lt;4VA</b>       |

## COMMUNICATION

|                     |   |
|---------------------|---|
| Auxiliary Protocols | - |
|---------------------|---|

## MEASUREMENT INPUTS

|           |                                         |
|-----------|-----------------------------------------|
| Voltage   | 10..300 V AC (L-N) / 10..500 V AC (L-L) |
| Frequency | 45-65 Hz                                |

PTC LOGIN

|                                     |          |
|-------------------------------------|----------|
| Extreme Temperature Threshold Value | 1250 Ohm |
| Short-circuit threshold value       | 50 Ohm   |

ENVIRONMENTAL CONDITIONS

|                                    |                    |
|------------------------------------|--------------------|
| Operating Temperature              | -20°C..+70 °C      |
| Storage Temperature                | -30°C..+80 °C      |
| Relative Humidity (Non-condensing) | 90% non-condensing |

GENERAL

|                  |                                      |
|------------------|--------------------------------------|
| Protection Class | IP40 (Front Panel), IP20 (Terminals) |
|------------------|--------------------------------------|

Certificates

