

ADN-C Series 3-Phase

120-960 Watts

Total Power: 120-960 Watts
Input Voltage: 380-480 Vac
Outputs: Single



Rev. 11.14.11_144
ADN-C Series 3-Phase
1 of 3

Special Features

- Slim form factor
- **Five year warranty**
- High Efficiency up to 94%
- Full Power at 60 °C
- Power Boost™
- Industrial Grade Design
 - Metal case
- MTBF > 500,000h
- Adjustable output
- Overvoltage protection with auto recovery
- Continuous short circuit and overload protection
- New visual diagnostic LED
- 3 Status LEDs
 - Input
 - Output
 - Alarm
- DC OK Relay
- Parallel Operation Capability
- Screw terminal connections
- RoHS Compliant
- No tools required for mounting

Safety

- UL508, cULus Listed
- UL 60950-1, cURus 2nd edition
- IEC60950-1 2nd edition
- Class I, Div 2 Hazardous Locations
- IP20
- CE

Electrical Specifications

| Input | |
|-------------------------|--|
| Nominal voltage: | 380 - 480 Vac |
| AC Input range: | 320 - 540 Vac |
| DC Input range: | 450 - 760 Vdc for ADN5, ADN10 & ADN20 |
| Frequency: | 50 - 60 Hz |
| Efficiency: | Up to 94% |
| PFC: | Active power factor correction for ADN20 & ADN40; meet EN61000-3-2 Class A |
| Phase input | ADN5 and ADN10 will operate with single phase input at 100% load Derate to 75% and 50% for ADN20 and ADN40 respectively under loss of 1 phase Units will shut down if thermal threshold is exceeded under this condition |
| Output | |
| Nominal voltage: | 24 V (24.0 - 28.0 Vdc Adj.) |
| Hold-up time: | > 20 ms for ADN5, ADN10, & ADN20; > 15 ms for ADN40 |
| Voltage regulation: | < ± 2% overall |
| Ripple: | < 100 mVpp |
| Current limit: | PowerBoost™ |
| Peak current: | 2x nominal current for < 2 sec for ADN5 & ADN10; 1.5x nominal current for 4 seconds minimum while holding voltage > 20 Vdc for ADN20 & ADN40 |
| Parallel operation: | Single or parallel operation selectable via front switch. For redundant operation use of external diode module is preferred; ADN40 uses active paralleling |
| Power back immunity: | < 35 V |
| Overvoltage protection: | > 30.5 Vdc, but < 33 Vdc, auto recovery |

General Specifications

| | |
|----------------------------|---|
| EMC Emissions: | EN61000-6-3:2001, Class B EN55011, EN55022 Radiated and Conducted including Annex. A, EN61000-3-2 |
| EMC Immunity: | EN61000-6-1:2001, EN61000-6-2:2001, EN61000-4-2 Level 4, EN61000-4-3 Level 3, EN61000-4-6 Level 3, EN61000-4-4 Level 4 input and level 3 output. EN61000-4-5 Isolation class 4, EN61000-4-11, Semi F47 sag immunity |
| Warranty: | 5 Years |
| General protection safety: | Protected against continuous short-circuit, overload, open-circuit. Protection Class 1 (IEC536), degree of protection IP20 (IEC 60529) Safe low voltage: SELV (acc. EN60950) |
| Status Indicators: | Visual: 3 status LEDs (Input, Output, Alarm) Relay: SSR or dry relay contact, signal active when $V_{out} = 18.5 \text{ vdc} \pm 5\%$ |

LED Diagnostics

| LED | OK | Loss of Ac | Low Ac | No Dc | High Load | Overload | Hot | Too Hot |
|----------|-------|------------|--------|-------|-----------|----------|--------|---------|
| • Input | Green | --- | Yellow | Green | Green | Green | Green | Green |
| • Output | Green | --- | Green | --- | Yellow | Yellow | Green | --- |
| • Alarm | --- | --- | --- | Red | Yellow | Red | Yellow | Yellow |

Environmental Specifications

| | |
|-------------------------|---|
| Storage/shipment: | -40 °C to + 85 °C |
| Operation (convection): | Full Load -25 °C to + 60 °C derate to 50% load at +70 °C Up to 50% load permissible with horizontal or on top mounting orientation |
| Humidity: | < 90% RH, non-condensing IEC 60068-2-2, 68-2-3 |

Other Features

| | |
|-----------------------|---|
| Fusing: | Input externally fused; output not fused, output is capable of providing high currents (PowerBoost) for motor load startup |
| Mounting orientation: | Standard: Vertical, Optional: Horizontal or on Top Simple snap-on to DIN TS35/7.5 or TS35/15 rail system |
| Ventilation: | Normal convection, No fan required |
| Cooling Spacing | ADN5: 15 mm in front, 25 mm above and below ADN10: 15 mm in front, 25 mm above and below ADN20: 25 mm in front, left and right; 70 mm above and below ADN40: 15 mm in front, 70 mm above and below, 25 mm left and right |
| Connections: | Input: Screw terminals, connector size range: 16-10 AWG (1.5-6 mm ²) for solid conductors Output: Connector size range: 16-10 AWG (1.5-6 mm ²) for ADN5, ADN10 and ADN20 solid conductors; 6-7 AWG for ADN40 |

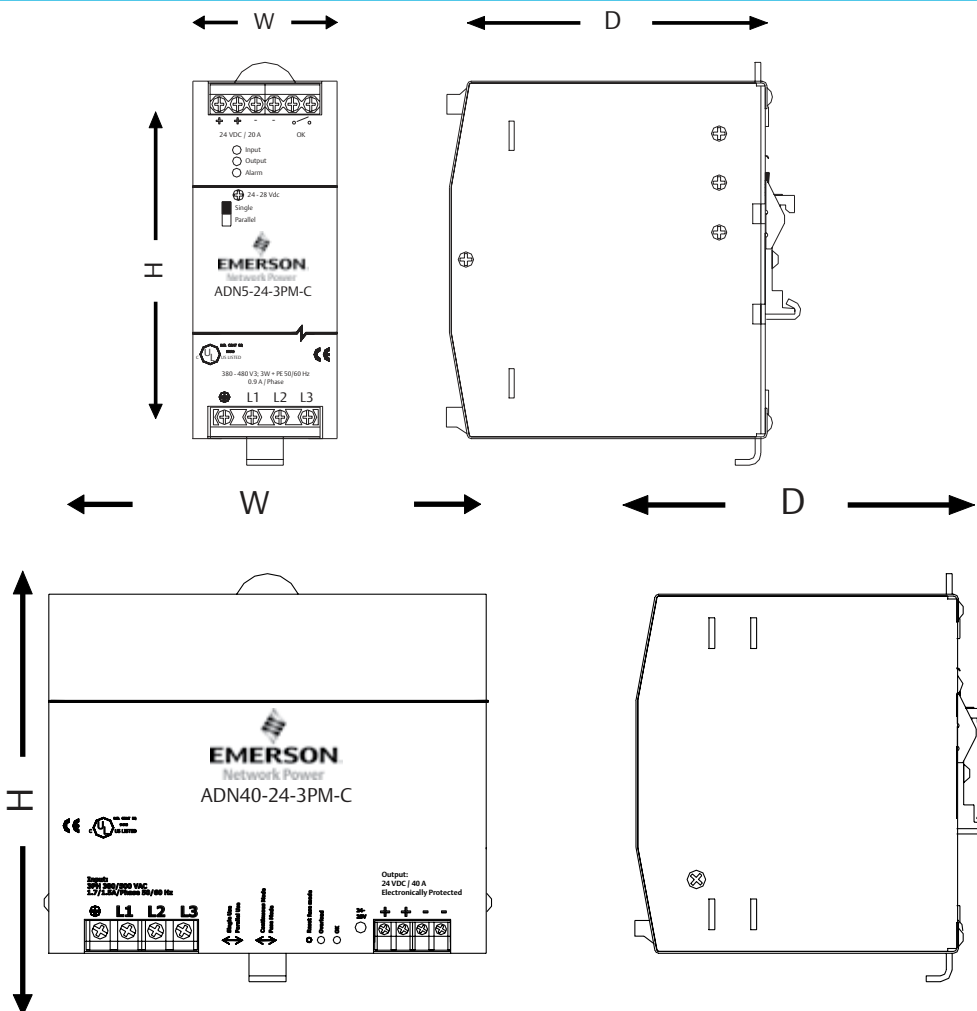
Ordering Information

| Model Number | Power | Input Voltage | Weight | Current | Efficiency | Case Type | MTBF |
|----------------|-------|------------------------------|------------------|---------------|------------|-----------|--|
| ADN5-24-3PM-C | 120 W | 320 - 540 Vac 450-760 Vdc | 1.15 lbs (520 g) | 5 A @ 24 Vdc | 85.0% | Metal | > 500,000 hours Nominal voltage, full load, Tamb=25 °C |
| ADN10-24-3PM-C | 240 W | | 1.54 lbs (700 g) | 10 A @ 24 Vdc | 91.2% | | |
| ADN20-24-3PM-C | 480 W | | 2.8 lbs (1300 g) | 20 A @ 24 Vdc | 93.0% | | |
| ADN40-24-3PM-C | 960 W | | 5.3 lbs (2400 g) | 40 A @ 24 Vdc | 94.0% | | |

Dimensions

| | Height | Width | Depth |
|----------------|------------------|------------------|------------------|
| ADN5-24-3PM-C | 4.85 in (123 mm) | 1.97 in (50 mm) | 4.36 (111 mm) |
| ADN10-24-3PM-C | | 2.36 in (60 mm) | 4.36 (111 mm) |
| ADN20-24-3PM-C | | 3.34 in (85 mm) | 4.68 (119 mm) |
| ADN40-24-3PM-C | | 7.09 in (180 mm) | 4.85 in (123 mm) |

Mechanical Drawing



Americas

5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 760 930 4600
Facsimile: +1 760 930 0698

Europe (UK)

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
Telephone: +852 2176 3333
Facsimile: +852 2176 3888

For global contact, visit:

www.Emerson.com/EmbeddedPower
techsupport.embeddedpower@emerson.com

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9