

# NOARK

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# NOARK



Company

**P2-3**

Vision  
Global distribution



R&D

**P5**

R&D System  
Manufacturing Technology



Products

**P7-16**

ACB Series  
MCCB Series  
ATS Series  
Modular DIN Rail Series  
Motor Control Series  
Combiner Box Series



Qualification

**P18**

Product certification



Case

**P20**

Thailand  
Indonesia  
Australia  
China



Service & Network

**P22-23**

Customer Service System  
Global Sales Network



● Company



R&D



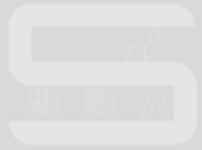
Product



Qualification awards



Case



Service & Network

## Electrical Equipment Supplier for Smart Grid

# NOARK

## New opportunity for you



Noark provides reliable products and efficient solution to intelligent power and energy system. With series of products and solution, Noark is capable of serving traditional industries including utility, iron & steel manufacturing, building, petrochemicals, telecommunication, mechanical and other industries, also has become expert in some cutting-edge fields, such as, solar energy, intelligent power distribution, wind energy, electric vehicle and energy storage. The over-expected performance of these products has been identified through their stable running and operation especially under an extremely harsh environment.

### SmartUnit

Is series of intelligent control units embedded in each electrical component, which enable them to communicate with every equipment in smart network. Besides, it has the abilities of self-judgement, storage and prompt react ion to integrate mutually with the entire system. This application can be effectively used in utility, industry, renewable energy and so on.

### InPower

(Intelligent Power) Distribution System works on two main key components, SmartUnit and InServer (Intelligent Communication Server). The benefit of this integration to user is easy

operation and management of power distribution system, through energy monitoring, remote operation, warning alarm, energy analysis, etc.

### Solarinel

Is Electrical system solution to photovoltaic system. With a full range of PV products and optimized design of electrical system, it brings high efficiency and performance of the whole solar system. After being applied in over 1 GW installation worldwide, Solarinel turns out to be a necessary component and ideal system to several of system application, from residential roof top in hot and humid tropical region to large solar farm in Tibet under extremely harsh environment.

In Europe, United States and China, Noark has 4 R&D centers, 3 distribution centers, 15 global sales branches and more than 1,000 employees. We hold the belief that dedicated and professional work manner is the root to bring our customer with complete solution and satisfaction. Noark will continually be committed to reducing cost of operation and maintenance, bringing reliable technology and creating more customer value in a long run.

## Noark Global Distribution



Noark Electric USA

Noark Electric Europe



Noark Electric Shanghai

Company

R&D

Product

Qualification awards

Case

Service & Network



## Cutting-edge Technology

Noark Electric pays great attention to R&D investment. The Technology Center has over 100 professional engineers and experts in such aspects as product design, software development, system design, simulation analysis, reliability, product industrialization, etc.. Noark Electric has obtained over 25 patents and over 200 certificates from both domestic and international authorities.



## Reliable and Lean Manufacturing

Noark Electric always select qualified suppliers to cooperates with. We are concerned on a large degree about the whole production process, including molding, welding, assembly, quality control, etc, because we share the same value proposition of presenting world class quality to our customers. We hold this philosophy of "Making low voltage electrical products in the way of automobile manufacturing". Noark Electric obtained ISO9001 quality management system certification from Lloyds Register Quality Assurance and became one of the low-voltage electrical manufacturers being awarded with this certification.



Company

Team

Products

Qualification awards

Case

Service & Network



# ACB — Air circuit breaker



- The "dual-core" intelligent control unit, first in the world
- Three colours LCD display, first in the low voltage distribution field
- The unique cold extrusion technology reduce temperature rise
- CB, CE and KAMA certifications

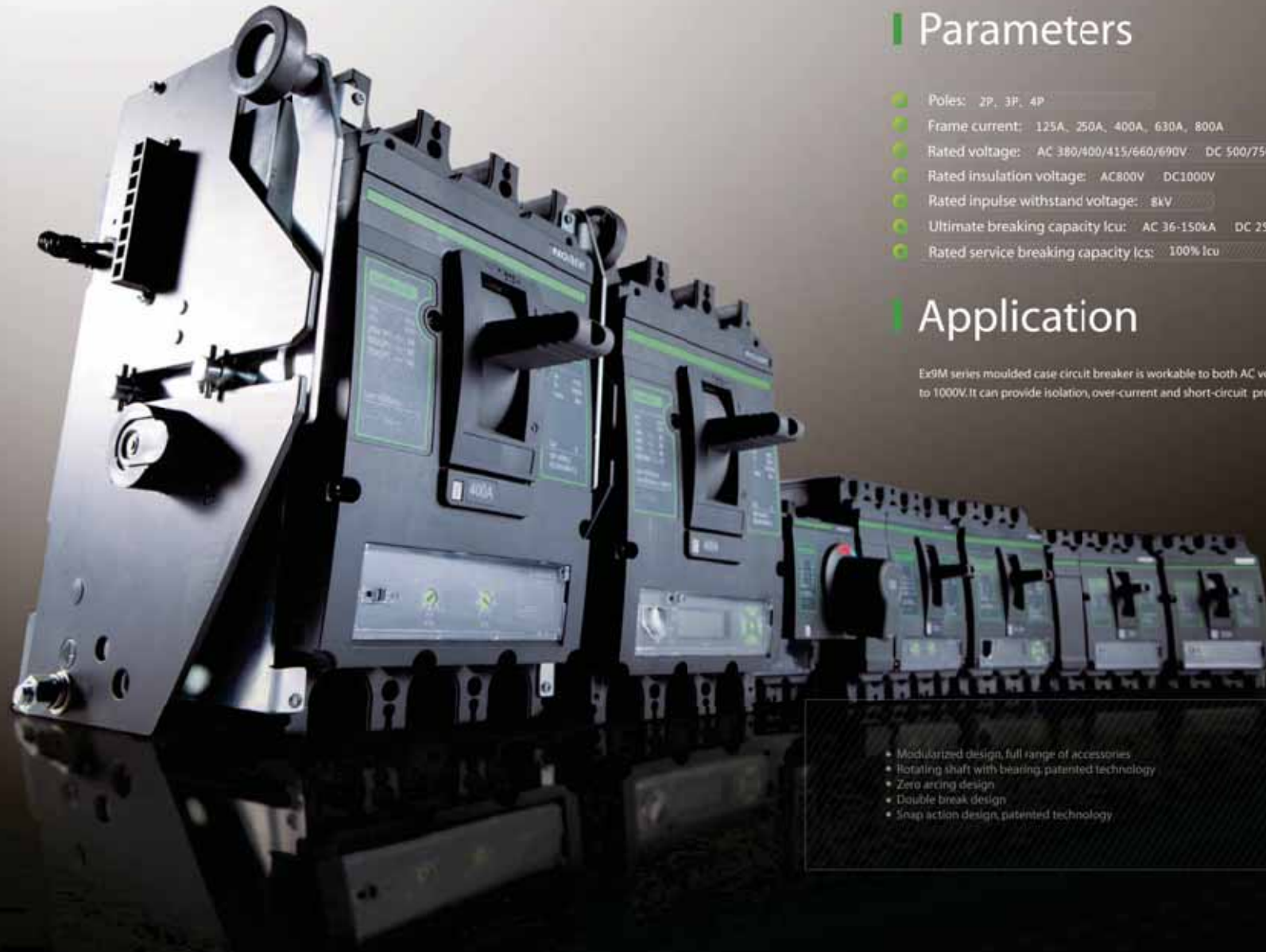
## Parameters

- Frame sizes: 1600/3200/4000/6300A
- Poles: 3P/4P
- Installation mode: fixed/withdrawable
- Rated voltage: 380/400/415/660/690V
- Rated insulation voltage: 1000V
- Rated impulse withstand voltage: 12kV
- Ultimate breaking capacity  $I_{cu}$ : 55-120kA
- Rated service breaking capacity  $I_{cs}$ : 100% $I_{cu}$
- Short-time withstand current  $I_{cw}$ : 42-100kA
- Breaking and closing time: breaking, 20-30ms, closing, less than 60ms
- Pollution degree: 3

## Application

Ex9A series air circuit breaker is suitable to the power distribution system of 50/60 Hz and 380V to 690V. It can be used in the application of industry, building, energy, OEM and infrastructure which need over-current, short-circuit and isolation protection in low voltage power distribution.

# MCCB — Moulded case circuit breaker



## Parameters

- Poles: 2P, 3P, 4P
- Frame current: 125A, 250A, 400A, 630A, 800A
- Rated voltage: AC 380/400/415/660/690V DC 500/750/1000V
- Rated insulation voltage: AC800V DC1000V
- Rated impulse withstand voltage: 8kV
- Ultimate breaking capacity Icu: AC 36-150kA DC 25-100kA
- Rated service breaking capacity Ics: 100% Icu

## Application

Ex9M series moulded case circuit breaker is workable to both AC voltage range and DC range from 500V to 1000V. It can provide isolation, over-current and short-circuit protection in power distribution system upto 800A.

- Modularized design, full range of accessories
- Rotating shaft with bearing, patented technology
- Zero arcing design
- Double break design
- Snap action design, patented technology

# MCB — Modular DIN rail products



- Compact design, full range of accessories
- Red and green window display ON or OFF situation
- Maximum voltage DC 1000V
- Special miniature circuit breaker, switch disconnector, fuse disconnector, and surge protective device for Photovoltaic
- CB, CE, TUV, SAA, PSE, and ESC certifications

## Application

5 main product lines including miniature circuit breaker, residual current circuit breaker, switch disconnector, fuse disconnector, and surge protective device, are widely used in building, electricity, OEM and photovoltaic applications. It provides isolation, short circuit, overload, residual current and lighting protection in the power distribution system.

## Parameters

- AC miniature circuit breaker: AC 230/400V, 1-63A, 6kA/10kA, type B/C/D
- DC miniature circuit breaker: DC 500/750/1000V, 1-63A, 6kA/10kA, type K
- Residual current circuit breaker: electric, type A and AC
- Switch disconnector: 40A/125A, with locking device
- Fuse disconnector: AC and DC, frame current 32A
- Surge protective device: AC and DC, DC1000V



# C&R — Motor control products



- Main materials meet European RoHS environmental standards
- Compact design, full range of accessories
- Low energy consumption, only grade one
- Small in size, long service life, low temperature rise, and high reliability
- Laser welding and easy installation

## Application

Ex9C&R series motor control products are suitable to the 50/60 Hz, AC 380V to 1000V, AC 6A-500A power distribution system. It provides closing, opening and controlling functions and is widely used in OEM, electricity, steel, metallurgy, and building.

## Parameters

	Model	Rated Voltage	Rated Current	Control Voltage
DC Relay	NEV	DC 440 to 750V	10 to 200A	DC 12/24V
AC Contactor	Ex9C	up to AC 1000V	1 to 500A	AC/DC 24 to 415V
Thermal Relay	Ex9R	up to AC 690V	0.1 to 500A	—
Capacitor Contactor	Ex9CC	up to AC 690V	25 to 100A	AC 24 to 415V
Electromagnetic Starter	Ex9QC	up to AC 415V	0.16 to 38A	AC 24 to 415V
Star-delta Starter	Ex9Q5	up to AC 415V	1 to 100A	AC 24 to 415V
Contact Relay	Ex9RC	AC 415V, DC 250V	1.3A, 0.31A	AC 24 to 415V

## PVBx — Photovoltaic combiner box

### Application

This equipment between PV modules and inverter, can provide current combining, lightning protection, and electric protection. It can be widely used in all kinds of photovoltaic systems. It saves cost of wiring installation and improves stability of the system.



### Parameters

Maximum working voltage	DC1000V	Protection degree	IP65
Maximum string input in parallel	20	Installation temperature	-25°~ +60°
Maximum current of each fuse input	20A	Relative humidity	0-99%

- Professional system project design
- Full range of DC components
- The best polycarbonate material of box in the world
- Waterproof, dustproof, and ultraviolet-proof
- Corrosion resisting, and flame retardant
- 25 years service life without maintenance
- Real time monitoring, and remote controll



Company

R&D

Product

● Qualification awards

C&E

Service & Network

## Certification & Qualification

These international accredited certifications pave the way of involvement in the world market. It is the foundation of expecting customers' trustiness towards Noark products.

International product performance and safety authentication



International Quality Certification



Regional certification





Company

R&D

Product

Qualification awards

Case

Service & Network

## Application References

### Thailand

Lopburi 1.65MW  
Saraburi 5.5MW  
Nongkhai 1.1MW

### Indonesia

Bunaken Island 13MW  
Pulau Kodingareng 400kW  
Pulau Sabutung 150kW  
Pulau Salemo 150kW  
Pulau Tiga 75kW  
Pulau Manawoka 115kW

### Australia

Rooftop Project

### Czech

Residential area Prague,  
Jahodnice with 110 flats  
Residential area Litomyšl,  
project Gree Alley with 40 flats

### Poland

Stoneczna Morena  
with 74 apartments

### China

Over 1,000MW application  
200MW PV power station in  
Golmud in Qinghai Province





Company

R&D

Product

Qualification awards

Case

● Service & Network

## Round Service & Quick Response

The basic philosophy of round service is "Customization" and "Added Value". This is our core standard of 360° full products and services. We are seeking inspiration in the service and application, and to find the thoughts and solutions in R&D, raw material purchase, production process flow, marketing analysis, logistics, technological supporting and after-sales service.



The critical assessment and meticulous selection ensure the reliable and stable products. Noark Electric provides customers 2-year Product Warranty.



Noark Electric focus on technological design and the capacity for innovation, insist in the feasibility of the environment and the reliability of products, guarantee the perfect quality and specification of each product.



Noark Electric provides various convenient transportation and the whole logistics service such as logistics, express, air transportation, home delivery, etc. in the remote areas.



The continuous optimal design of process and flow improves the flexible control and management capability, and to meet the customers' needs.



The assistance on installation of equipments and on-site technical support are available.



We provide our customers with concise market analysis and solution for their maximum benefits by highly cooperated marketing team, flexible and orderly standard cooperation, professional technical support and perfect information system.



24-hour response



Short lead time



360° one-stop solution

# Noark Global Sales Network

