Xtra Combinations

Xtra Combinations from Moeller offers a range of products and services, enabling the best possible combination options for switching, protection, control and visualization in power distribution and automation.

Reliable Switchgear from One Proven Supplier

For Moeller Electric Sales and Support call KMparts.com (866) 595-9616
We keep power under control.

Quality and innovation
Handling electrical energy, giving it form and direction, making effective use of it where it is needed, this has been our mission for over a century. With quality products and technical innovation with products and solutions for industry and buildings.

Electrical engineering with verve
As leading specialists in electrical engineering we aim to impress you with the Moeller brand. For wherever power distribution, switching, protecting, operating, monitoring and controlling are required, we are your ideal partners.

Right around the world
Internationalism is our mission. You’ll find us wherever markets are growing: available as partners in your location, with our own branches and production sites - your strong local partner with global expertise. With short routes and a global sales network made up of our own national subsidiaries and distributors in over ninety countries.

With passion for our customers
Our employees are always open for new challenges. Constantly offering new ideas, we design the future of electrical engineering and help you to create efficient and future-oriented solutions. With passion and concentration on what we can do: power distribution and automation.

For Moeller Electric Sales and Support call KMparts.com (866) 595-9616
### New items

#### Control and Indication
1. Control circuit devices RMQ-Titan, RMQ16
   - Signal towers SL
2. Position switches LS +++ Proximity switches LS +++ Pressure switches MCS
3. Electronic relays ETB, EMB, ESR +++ Easy relay, easy HMI, easy Control
   - Controllers MC100, MC200, PA4, PS4-16 +++ MR devices MR +++ Power supply units SM3, GM4, GD4
4. Mini contactor relays DLIP, DLIPM +++ Contactor relays DLK +++ Contacts DLK7, DLK16, DLK400 ...
5. Overload relays ZE, ZB12, ZB150, ZS +++ Current transformer-operated overload relays ZV7
   - Electronic motor-protective system ZEV +++ Thermostat relay EM16
6. Rotary switches T +++ Switch-disconnectors P
   - Small enclosures O-K +++ Empty enclosures CI-B, CI-C, CI-D
7. Motor-protective circuit-breakers PKZ0, PKZM1, PKZM4
   - Motor-protective circuit-breakers with plug-in trip units PKZ2
8. Motor starter combinations: DOL, starter MSC-D, Reversing starter MSC-R
   - Motor starter on busbar adapter MSC …/BBA +++ Control wiring system SmartWire
9. Circuit-breakers NZM, N, N3, N4 up to 2000 A
   - Switch-disconnectors N, N3, N4 up to 1600 A
10. Control transformers STN, ST1, ST2, STZ
    - Multi-winding transformers UTI +++ Universal power supply units AING
11. Insulated enclosures CI: empty enclosures, fitted enclosures, mounting and busbar systems
    - Insulated distribution boards CI: panel enclosures, distribution board assembly
12. Soft starters DS5, DS6, DM4
13. Frequency inverters DFS1, DF6
14. Vector frequency inverters DV51, DV6
15. Miniature circuit-breakers FAZ +++ Residual current devices FI
16. Fuse material, low-voltage h.b.c. fuse bases GIF +++ Switch-disconnector GST

#### Switching and Protection
1. Electronic motor-protective system ZEV +++ Thermostat relay EM16
2. Motor-protective circuit-breakers PKZ0, PKZM1, PKZM4
3. Motor-protective circuit-breakers with plug-in trip units PKZ2
5. Motor starter on busbar adapter MSC …/BBA +++ Control wiring system SmartWire
6. Circuit-breakers NZM, N, N3, N4 up to 2000 A
7. Switch-disconnectors N, N3, N4 up to 1600 A
8. Motor-protective circuit-breakers PKZ0, PKZM1, PKZM4
9. Motor-protective circuit-breakers with plug-in trip units PKZ2
10. Motor starter combinations: DOL, starter MSC-D, Reversing starter MSC-R
11. Motor starter on busbar adapter MSC …/BBA +++ Control wiring system SmartWire
12. Circuit-breakers NZM, N, N3, N4 up to 2000 A
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16. Vector frequency inverters DV51, DV6

#### Matching of Voltage and Current
1. Control transformers STN, ST1, ST2, STZ
2. Multi-winding transformers UTI +++ Universal power supply units AING
3. Insulated enclosures CI: empty enclosures, fitted enclosures, mounting and busbar systems
4. Insulated distribution boards CI: panel enclosures, distribution board assembly
5. Soft starters DS5, DS6, DM4
6. Frequency inverters DFS1, DF6
7. Vector frequency inverters DV51, DV6
8. Miniature circuit-breakers FAZ +++ Residual current devices FI
9. Fuse material, low-voltage h.b.c. fuse bases GIF +++ Switch-disconnector GST

#### Power Distribution
1. Motor-protective circuit-breakers PKZ0, PKZM1, PKZM4
2. Motor-protective circuit-breakers with plug-in trip units PKZ2
3. Motor starter combinations: DOL, starter MSC-D, Reversing starter MSC-R
4. Motor starter on busbar adapter MSC …/BBA +++ Control wiring system SmartWire
5. Circuit-breakers NZM, N, N3, N4 up to 2000 A
6. Switch-disconnectors N, N3, N4 up to 1600 A
7. Soft starters DS5, DS6, DM4
8. Frequency inverters DFS1, DF6
9. Vector frequency inverters DV51, DV6
10. Miniature circuit-breakers FAZ +++ Residual current devices FI
11. Fuse material, low-voltage h.b.c. fuse bases GIF +++ Switch-disconnector GST

#### Motor Control and Regulation
1. Insulated enclosures CI: empty enclosures, fitted enclosures, mounting and busbar systems
2. Insulated distribution boards CI: panel enclosures, distribution board assembly
3. Soft starters DS5, DS6, DM4
4. Frequency inverters DFS1, DF6
5. Vector frequency inverters DV51, DV6
6. Miniature circuit-breakers FAZ +++ Residual current devices FI
7. Fuse material, low-voltage h.b.c. fuse bases GIF +++ Switch-disconnector GST

#### Approvals
1. Approvals for world markets +++ Shopping classifications
2. General +++ Alphabetical index +++ Sales branches
**easyWire: Connect don’t wire**

SmartWire reduces the control wiring by up to 80% and moves the I/O of the PLC to the switching device. Wiring errors are therefore no longer possible. Existing Moeller switching devices do not have to be changed and can be used further. Gateways are available to connect SmartWire to PROFINET, CANopen or easyNET.

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**DILL – Safe switching of lamp loads**

Additional contactor series expands the xStart range.

The DILLs are based on the DILM contactors and are optimised for lamp switching. Their high switching capacity enables them to control the inrush currents of all lamp types.

The box terminals for connecting large conductor cross sections make it possible to bridge large distances.

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**easyConnect EC4P – Powerful compact PLCs**

easyControl EC4P can be used for implementing both small and medium-sized automation solutions. The devices can be expanded with I/O and network modules from the easyRelay system. A special feature is the large number of interfaces available: CANopen, easyNet and Ethernet.

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**easyHMI: Input/output modules with temperature measuring**

The new easyHMI input/output modules enable PT100 or NI1000 temperature sensors to be connected directly. Two-wire or 3-wire connections are possible. The modules are designed for different temperature ranges with and without output analog outputs.

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**Rear drive for NZM1 and NZM2**

A main switch with a door coupling rotary handle in a restricted space: the rear drive for circuit-breakers and switch-disconnectors. For implementing worldwide from a rated current of 16 to 250 A and for short-circuit levels up to 150 kA in compliance with IEC and UL690 requirements. The “invisible” 4-fold screw fixing allows the compact mechanical system to be mounted in any location in the control panel.

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**Residual-current module for NZM1 to 125 A**

Residual current release modules for protecting persons and systems, suitable for any mounting requirement. This compact solution does not require any auxiliary voltage is available in 3 and 4-pole versions as well as with different rated residual currents.

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Innovative automation products for controlling, operating and monitoring machines and electrical installations.

Everything from a Single Source: Products for Industry and Buildings

Your brands for industrial automation

xCommand
Control and indication – in an ergonomic and attractive design. Switching control reliably and accurately.

xControl
Innovative automation products for controlling, operating and monitoring machines and electrical installations.

xStart
The complete range for the motor feeder. From the contactor via efficient motor starters up to the variable speed drive. New communication-based solutions.

xEnergy

Your brands for building automation

xpole
Installation devices of the new generation, ensuring safe electrical installations worldwide – optimum operating safety for persons and electrical systems.

xboard
The new service distribution concept for power distribution in residential and utility buildings – from 63 to 1600 A.

Xcomfort
Moeller's Xcomfort product range offers a number of new options for convenient electrical installation.

Xpatch
The product and system ranges for implementing future-oriented data networks up to Category 6.