

Electrical equipments

Modular circuit breakers

- 1P, 2P, 3P, 4P circuit breakers, residual current circuit breakers, differential circuit breakers;
- rated voltage 127 ÷ 500Vac, 50/60Hz, rated current 2/4/6/10/16/20/25/32/40/50/63/80/100/125A;
- short-circuit current 3 ÷ 60kA, earth-leakage sensitivity 30 ÷ 1000mA, life 20 000 cycles;
- standards EN 61009, EN 60898, IEC 60947-2, IEC 60898-1, protection IP20;



Power circuit breakers

- operational voltage 220 ÷ 750Vac/Vdc;
- insulation voltage 690, 800Vac/Vdc;
- rated current 16 ÷ 3200A;
- breaking capacity 8 ÷ 150kA;



Contactors

- control voltage 12 ÷ 690Vac, 5 ÷ 440Vdc;
- operational voltage 220 ÷ 1000V;
- rated current 6 ÷ 2100A;
- contacts NC, NO, NC + NO;



Thermal overload relays

- adjustment range 0.10 ÷ 630A;
- differential or non differential;
- voltage 690/1000Vac, 250Vdc;
- insulation voltage 600 ÷ 1000V;

Circuit breaker thermal-magnetic

- adjustment range 0.10 ÷ 220A;
- voltage 220 ÷ 690V;
- life 40 000 ÷ 100 000 cycles;
- operating rate 25 cyc/h;



Motor starters

- rated current 3 ÷ 250A;
- power 1.1 ÷ 90kW;
- operational voltage 110 ÷ 690V;
- control voltage 24 ÷ 400Vac;

Cam switches

- Ø 16 ÷ 22mm hole, 1 ÷ 6 poles;
- rated current 10 ÷ 150A;
- switching angle 0 ÷ 330°;
- protection IP 20, IP 40 or IP 65;



Electrical protection relays

- control voltage 24 ÷ 230Vdc, 24 ÷ 400Vac;
- operational voltage 250/400Vac;
- 5A for output control relay;
- contacts 1 NC, 1 NC + 1 NO, 2 O/C;



Soft starters

- soft starters 0,37 ÷ 75kW;
- rated voltage 110 ÷ 690Vac;
- rated current 3 ÷ 85A;
- analog or discret inputs and outputs;



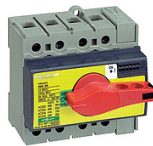
Motor protection circuit breaker

- single or three phase circuit breaker, 2 ÷ 4 poles;
- operational voltage 440 ÷ 690Vac, rated current 0.25 ÷ 80A;
- life 10 000 ÷ 100 000 cycles depending on model;
- miniature or compact construction, thermal-magnetic or magnetic protection;



Switch disconnector

- nominal voltage 690V;
- versions 2, 3 and 4 poles;
- rated current 40 ÷ 6300A;
- life 15 000 cycles



Source changeovers

- operating voltage 125 ÷ 750Vac;
- rated current 40 ÷ 6300A;
- version 3 or 4 poles;
- interpack, compact or masterpack;



Protection relays SEPAM

- relays for standard or usual applications, distribution systems, demanding application;
- input for current, voltage, logic signal and temperature sensors;
- relay outputs, logic, logic equation editor, modbus communication port;
- parameters and protection settings saved on removable memory cartridge;
- software programming on specific functions (Logipam);



Modular surge arrester

- charge current 5 ÷ 65 kA;
- voltage 440V, 275V;
- protection for TT, TN-S, TN-C, IT;
- voltage protection 0.9 ÷ 1.5 kV;



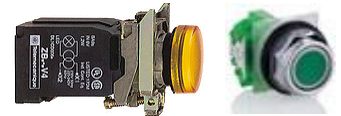
Modular safety transformer

- operational voltage 230Vac;
- output voltage 8 ÷ 12V or 12 ÷ 24V;
- rated power 4 ÷ 63VA;
- modular safety or bell transformer;



Pushbutton and pilot lights

- plastic or metal construction, round or square head, $\varnothing 8 \div 30\text{mm}$, usually $\varnothing 22\text{mm}$;
- operational nominal voltage $110 \div 600\text{Vac}$, $19 \div 30\text{Vdc}$, isolation $250 \div 600\text{Vac}$;
- LED or bulb lighting, white, red, green, orange or blue pilot light;
- live 100 000 ours, degree of protection IP 66;



Fuse disconnecter

- 1P, 1P + N, 2P, 3P, 3P + N;
- current 6, 25, 32, 50, 125 A;
- contacts 1 NO, 2 NO, 1 C/O, 2 C/O;
- max. voltage 690Vac/dc;



Push buttons, changeover switches

- operated by switch or pushbutton;
- 2 or 4 poles, 2 or 3 positions;
- current 10 / 20A, voltage 250 / 415Vac;
- contacts 2 C/O, 1 C/O, 1 NO + 1 NC;



Vacuum circuit breaker

- operation and protection $7.2 \div 24\text{kV}$, rated current $630 \div 2500\text{A}$, short-circuit current $25 \div 40\text{kA}$;
- optimised width to facilitate cubicle integration through four phase-to-phase distances;
- electrical operating mechanism, earthing switch, multi-performance current sensors LPCT;
- fixed, with drawbar in cradle, frontal or lateral versions;
- keylock for locking the circuit breaker in open position;

Fuse

- high breaking capacity $120 \text{ kA} / 500 \text{ V}$ and $80 \text{ kA} / 690 \text{ V}$ (depending on the fuse used);
- range of currents $0.3 \div 250\text{A}$, high capacity disconnection and current limitation;
- combined type (striker), indoor and outdoor (depending on type), medium and low voltage;
- for devices public and industrial electrical distribution networks;
- provide protection for consumer power (industrial and household equipment, transformers, motors, etc);



Industrial plugs and sockets

- voltage $110 \div 480\text{Vac}$, 3/4/5 poli;
- current 16/32/63/125A, IP 44/67;
- plug or socket version, screw connections;
- easy installation, high performance;



Enclosures for housing

- nominal current 63A;
- degree of protection IP 40, IK 07;
- high resistance insulation;
- 4, 6, 8, 12, 18, 24 or 36 modules;



Switchboard, panelboards, modular enclosures, universal enclosures

- metal, technoplast, polycarbonate, ABS, crystal, titan construction, color or colorless doors;
- fire, heat, UV, chemical and atmospheric agents resistance, self extinguishing;
- insulation class 1, total insulation class 2, IP 30/31/40/43/55/65, IK 07/08/09/10;
- terminal blocks for insulation voltage 800V and test pulse 8kV, SR EN 60947-7-1;
- 2P, 3P, 4P distribution block, $40 \div 630\text{A}$, configuration distribloc, polybloc, multiclip;
- wide range of accessories necessary for installation of switchboards, panelboard, enclosures;

Accessories for interconnection

- string clamps with DIN rail mounting, cable glands, clips for fixing cables, sealing plugs;
- rigid or flexible copper bars, rails DIN, NULL bars, tinned copper bars, isolate bar;
- barets of interconnection, copper lugs, cable terminals, terminal pines, clips, connectors;
- Insulators octagonal, industrial insulators, insulators dead end, insulators for copper bars;



Equipment for homes, buildings, spaces

- single or double switches and sockets for interior, 16A/250V, various forms of design;
- sockets and switches for outdoor, resistant to external factors, degree of protection IP44;
- power, data, telephone socket-outlets, extension sockets, suitable for all applications;
- programming sockets, timers, programmers, variable intensity – dimmers, thermostats;
- industrial lighting, street, the neon and fluorescent lamps bodies in various constructive forms ;
- saving light sources, incandescent bulbs, higher wattage bulbs, mercury lamps;
- starters, ballasts, simple lamp holder or with short skirt, ceramic or bakelite lamp holder, E14, E27, E40;
- connection and ramification doses embedded and applied, cables, Copex tubes, cable channels;

