



PRODUCT CATALOGUE

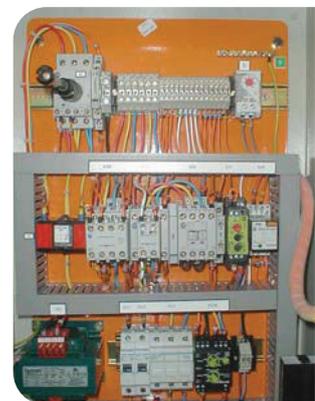
PROLIANCE

SWITCHGEAR SOLUTIONS

"PROLIANCE SWITCHGEAR SOLUTIONS" as the name implies is highly specialized in providing product and technical solutions catering to the needs of LV panel board manufacturers and various industries like Oil & Gas ,Sewage treatment plants, Process industries, Engineering and Contracting companies etc....With the overwhelming support and assistance we enjoy from our foreign and local suppliers,we have been able to provide superior cost effective solutions that meet customer's budget and timelines.

Our goal at "PROLIANCE SWITCHGEAR SOLUTIONS" is to provide our customers with quality and reliable products that meets all government regulations paving the way for an healthy business relationship.Our relationship with our customers is the most valuable asset with our business model.We are highly committed and dedicated to our customers requirement's from the quality of the products to the service we render.We have carefully selected the finest manufacturers in the business that share our vision and have the capability to support our efforts.

Proliance Switchgear Solutions is committed to providing our customers with products and services that consistently satisfy the highest level of quality standards.These products and services will be delivered in a timely manner demanded and expected by our esteemed customers.



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CVM-NRG 96 System Analyzer



- Panel mounted electrical system analyzer (96 x 96 mm) which measures, calculates and displays the main electrical parameters in balanced and unbalanced three-phase systems
- Slim line analyzer (only 50 mm deep)
- Power demand meter function (A / A III / kW III / kV•A III)
- Current reading using external transformers .../5A (insulated inputs, according to type)
- Option for measuring in Low and Medium Voltage systems
- RS-485 communication (MODBUS RTU)
- Compatible with the Power Studio / Scada system
- 4 line backlit LED display
- Allows selection of default page
- Universal power supply available in "Plus" type

Power Factor Regulators



The MAGIC series regulators are a new range of high technology regulators designed for simple and effective regulation. The MAGIC series has also been designed for easy and intuitive handling.

The performance of MAGIC

- High accuracy regulation
- Parameter configuration in RUN-TIME, i.e. without having to disconnect the unit
- Totally digital setting and handling
- 4 Alarm Levels:
 - Low load current or current transformer not connected
 - Wrong phase connection
 - Over correction

- Lack of correction

Parameters on display

MAGIC includes an LCD display where the following data may be shown:

- Cos ϕ in the installation
- Signalling the connected steps
- Nature of the load, inductive or capacitive
- Programming menu tracking cursor
- Alarm

Current Measuring Transformers



Current Measuring Transformers are specifically designed for their use in those places with a limited free space for their installation such as close to circuit-breakers and any position with a minimum separation space between the bus bars.

Features

- Easy Installation procedure
- Ideal for circuit breaker output side
- High accuracy

Earth Leakage Relay - RN Series



Display	Mechanism	IDn (A)	Delay (s)	Type	Code
LED	electronic	0,03...5	0,02...5	RN-R	P12132

Electrical features

Auxiliary power supply	230 V a.c. (± 20%) 50 ... 60 Hz
Output contacts	250 V a.c. 6 A
Operating temperature	-10 °C / +50 °C

Mechanical features

Mounting	DIN rail
Dimensions	2 modules
Weight	163 g
Protection grade Terminals:	IP 20, Front side: IP 41
Standards	IEC 61008-1, IEC 755, IEC 255-5

Differential Transformer WN series



Weight	Useful diameter \varnothing (mm)	Type	Code
148 g	35 \varnothing	WN-35	P10211
281 g	70 \varnothing	WN-70	P10212
433 g	105 \varnothing	WN-105	P10213
574 g	140 \varnothing	WN-140	P10214
1.201g	210 \varnothing	WN-210	P10215

Small, Compact Thermostat KTO 011 / KTS 011



KTO 011: Thermostat (normally closed); contact breaker for regulating heaters.

KTS 011: Thermostat (normally open); contact maker for regulating of filter fans and heat exchangers or for switching signal devised when temperature limit has been exceeded.

Features

- Large setting range
- Small size
- Simple to mount
- High switching performance

Mechanical Hygrostat MFR 012



The Electromechanical thermostat MFR 012 is designed to control enclosure heaters so that the dew point is raised when a critical relative humidity of 65% is exceeded. In this way condensation and corrosion is effectively prevented.

Features

- Adjustable relative humidity
- Change-over contact
- High switching capacity
- Easily accessible terminals
- Clip fixing

Semiconductor Heater HG 040 Series



Compact heater for avoiding malfunctions caused by condensation and for use in enclosures where the temperature may not fall below a minimum value. The aluminium profile heater body has a chimney effect and helps to distribute heat evenly.

Features

- Dynamic heating up
- Temperature limiting
- Energy saving
- Self-regulating (PTC)
- Clip fixing
- Compact

Small Semiconductor Heater HGK 047 Series 10W To 30W



The heaters are used in enclosures where condensation is to be prevented or the temperature may not fall below a minimum value. In this way corrosion is avoided and an even temperature is ensured.

Features

- Dynamic heating up
- Energy saving
- Wide voltage range
- Temperature limiting
- Clip fixing

Filter Fan FF 018 Series 21m³/h-102m³/h



Filter fans are used to provide an optimum climate in enclosures. The interior temperature of an enclosure can be reduced by channelling cooler filtered outside air into the enclosure thus expelling heated internal air. The resulting air flow prevents formation of localised hot pockets and protects the electronic components from overheating.

Features

- Very low noise
- Minimal depth in enclosure
- Functional design
- Time-saving installation

RFP 018 Roof Filter Fan 177 - 338 CFM



Roof filter fans and roof exhaust filters are used in enclosures from which warm air must be diverted due to increased heat development. The ready-to-connect and low-noise roof filter fan is used to expel warm air from within the enclosure. Alternatively, the roof exhaust filter provides passive ventilation. The RFP 018 series comes in two versions, one utilizes four small axial fans, improving reliability and maintaining continuous

operations even if one of the fans should fail, the second uses a larger single high capacity fan.

Features

- Very low noise
- Minimal mounting depth
- High air volume
- High reliability
- Time-saving installation

Semiconductor Heater HG 140 Series 15W to 150W



These heaters are used in enclosures where damage from condensation must be prevented, or where the temperature may not fall below a minimum value. The aluminium profile heater body design has a chimney effect and distributes the heat evenly. The pressure clamp connectors save time and simplify installation.

Features

- Pressure clamp connectors
- Dynamic heating up
- Wide voltage range
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

Power Factor Correction Capacitors



Capacitors are used for the improvement of power factor in low voltage networks, suitable for:

- Individual fixed power factor correction of motors and transformer

- Automatic power factor correction switching configuration
- Automatic power factor correction capacitor banks with detuned/tuned harmonic filters

Capacitor Switching Contactors



When capacitors start to operate, they cause high frequency between 1-15 khz, and a current that is about 180 times higher than the rated current for a very short time period.

This may result in welding the main contacts of standard duty contactors and / or result in capacitor damages. so the shock inductance needs to be fixed on each phase to limit this current, this is practically achieved by means of a block of auxiliary contacts with quick discharge damping resistors. Thus the peak current is limited

within the contactor making capacity. The csc series contactors can be used safely in single step or multiple step capacitor banks because of their special designs and the lifetime of both capacitor and circuit protection devices are greatly increased.

Features

- High safety
- High electrical life
- No risk of dangerous voltage
- Saved costs of expensive replacements
- Less maintenance

NH00 Fuse Base With Fuse Indicator



BASE SIZE 00

REFERENCES	FUSE SIZE	In (A)	POLES
511	NH00	160A	1
513	NH00	160A	3

FUSE SIZE 00

REFERENCES	In(A)	V	Ka
66920063	63	500	120
66920125	125	500	120

Plug-in Current Transformers



Plug-in current transformers without a primary conductor, though with foot angle, insulated protective cap and bus-bar mounting screws, or alternatively with nickel plated Cu-bus-bars corresponding to the bus-bar arrangement, including DIN 933 screws, complete with nuts, washers, u-shaped discs and lock washers for assembly in the bus bars.

Features

- Primary nominal currents from 30 A up to 7500 A
- Secondary nominal current of 5 A or 1 A
- Secondary change-over function and triple-secondary changeover in the 0.2s; 0.5 and 1 classes.

D02 Busbar Mounting Fuse Base Systems



3-pole, 60mm system, combination base for 5 and 10mm thick busbars and double-t-section latching mechanism when sliding onto busbar opened box terminal 1.5-25mm²

Features

- 400V/63A
- 50 kA short-circuit withstand capability
- Power dissipation at nominal current-5.9W
- Silicon free and halogen free
- W x H x D - 36 x 200 x 43

Conical Insulators



Height mm	Insert	PowermatCode No	Rt Diamm	Rb Diamm	Hb Diamm	Nominal Voltage(AC/DC)
25	M6	C625 (M6)	19	25	10	400/500
30	M6	C630 (M6)	25	30	10	600/750
30	M8	C830 (M8)	25	30	10	600/750
40	M8	C840 (M8)	33	40	15	1000/1200
40	M10	C1040 (M10)	33	40	15	1000/1200
50	M10	C1050 (M10)	40	50	20	1200/1500
50	M12	C1250 (M12)	40	50	20	1200/1500
60	M10	C1060 (M10)	42	50	20	1500/1800
60	M12	C1260 (M12)	42	50	20	1500/1800
70	M10	C1070 (M10)	41	50	25	2000/2400
70	M12	C1270 (M12)	41	50	25	2000/2400

All Dimensions are in MM
 Insert : Brass / Steel (Zinc Passivated)
 Material : DMC (Dough Moulding Compound) (UL 94 V-0)

Under Voltage Relay



The low voltage monitor relays operate and control their own supply when the supply voltage drops below 75% of the nominal value, the output relay will de-energize and when the supply voltage increases above 75% of the nominal voltage for a time in excess of the set delay time, the relay will re-energize.

- Advanced design
- Monitors own supply
- Din rail & surface mounting
- Well-gripped screw connectors
- 5-15min on delay-adjustable

Features

- Suitable for air-conditioning applications
- Compact in size, 17.5mm wide

Light Intensity Switch



Features

- Voltage - 230VAC
- Resistive load - 16A 250VAC
- Glow lamp load - 2300W
- Inductive load - 3A
- Delay time
- Switching on - approx 8 secs
- Switching off - approx 38 secs
- Snap on mounting on 35mm rails
- Sensing unit - photo resistor

Surge Arrester VRB-12/280



A voltage surge is a voltage impulse or wave which is superposed on the rated network voltage

Protection against overvoltages

Direct or indirect lightning strokes can damage electrical equipment at a distance of

several kilometers. Operating voltage surges, transient and industrial frequency over-voltage can also produce the same consequences. To avoid such consequences surge arresters are installed.

Battery Charger 31 BCE 2V5 24



The bce device is a battery charger at constant voltage and current for a trickle charge of lead-acid batteries. The current is adjustable on the front panel and ranges between 30 and 100% of end-scale value. Power on led indicates the unit is supplied. Charge led denotes that the charging current is 20%

higher than the preset value. Alarm led indicates alarm conditions.

- Available ampere ratings for 12V - 3A, 6A, 12A
- Available ampere ratings for 24V - 2.5A, 5A, 10A

DC Power Supply



Features

- Din rail mountable
- Overload and short circuit protection
- Industrial housing
- Available in 5A, 10A, 20A with 12V and 24VDC

Multifunction Timer G2ZMF11 AND G2ZM20



Features

- Multifunction
- 16 time ranges (G2ZMF11); 7 time ranges (G2ZM20)
- Time setting by 2 or 3 controls for the selection of range and fine tuning
- Remote potentiometer optional
- Supply voltage 24-240VAC/DC, 12-240VAC/DC (G2ZM20)
- Supply voltage selectable via PowerModules or by zoom voltage
- 2 CO contacts (G2ZMF11: individual switching when instentaneous contact selected)
- Width 22,5mm
- Industrial design

Variable Frequency Drive - Frenic Mini, Multi & Eco Series



Features

- 0.75kw.....560kw
- Exclusive fan and pump inverter
- New function for energy-saving operation
- Built with longer lasting replaceable components to give a longer service life
- Maintenance is simplified for both the inverter and equipment
- The service life information for replacable inverter components are displayed
- Equipped with the optimum functions for hvac (air conditioning systems)
- Keypad that enables remote operation
- Network and global compatible

Form 4 Busbar Insulator 3P and 4P



Properties	UNIT	VALUE
Mechanical data		
Density	g/cm ³	1.35
Tensile strength	N/mm ²	180
Elongation at break	%	3
Tensile modulus of elasticity	N/mm ²	11500
Impact strength charpy +23°C	KJ/m ²	> 70
Impact strength charpy -40°C	KJ/m ²	> 70
Electrical data		
Surface resistance	Ohm	10 ¹²
Di-electric strength	Ohm [°] cm	10 ¹⁵
Di-electric loss factor tan δ	--	0.024
Creepage factor	--	450
Other datas		
Melting temperature	°C	214
Max operating temp permanent	°C	160
Max operating temp short time	°C	200
Form stability	°C	215
Moisture absorbtion	%	1.9-2.4

Led Indication Lamps

Panel Filter Fan 120X120



Features

- Supply voltage 24VAC & 240VAC
- Available with resistor
- Colours available - Red, Yellow, Blue, Green and Amber



Ammeter Selector Switch

Voltmeter Selector Switch



4 position Ammeter Selector Switch



7 Position Voltmeter Selector Switch

Current Transformers



Features

- Primary nominal currents from 15 A up to 3200 A
- Secondary nominal current of 5 A or 1 A
- Secondary change-over function and triple-secondary changeover in the 0.2s; 0.5 and 1 classes.

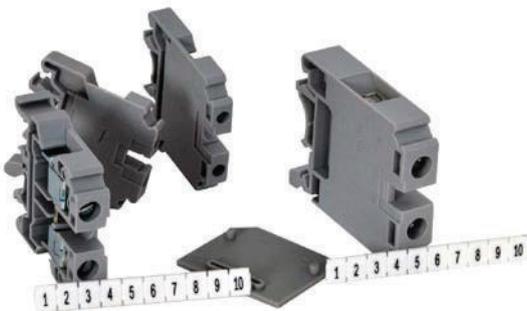
Analogue Meters



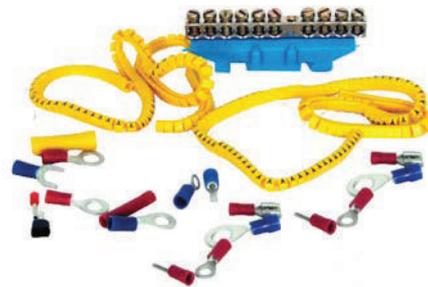
- Ammeter
- Voltmeter
- Frequency Meter
- P.F Meter
- Mdi Ammeter

Terminal Blocks & Markers

Wire Ends, Neutral Links & Cable Markers



Sizes available - 2.5 sqmm.....90 sqmm



Wire ends	Ring lug, Spade lug, Cylindrical lug (All insulated)
Neutral links	7 way, 10 way and 13 way
Cable markers sizes available	2.5mm, 4mm, 6mm, 10mm & 16mm

Digital Measuring Instruments



Features

- Digital ammeter
- Digital voltmeter
- Digital energy meter
- Digital multi function meter

Analogue Meters



- Ammeter
- Voltmeter
- Frequency Meter
- P.F Meter

Heat Shrinkable Sleeve



Colourful, thin-wall layflat heat shrinkable sleeve for copper busbar insulation.

Features

Highly flame retardant

- High withstand to abrasion and cut-through
- Excellent chemical and solvent resistance
- Semi rigid

Available colours

Red, Yellow, Blue and black

Available sizes

18, 29, 43, 52, 65, 78, 91, 100, 130, 145 and 200 (All sizes in mm)

Buzzer CBZ-10



Available in 12V,24V,110V and 220V

Buzzer CBZ-20



Available in 12V,24V,110V and 220V

Buzzer CBZ-30



Available in 12V,24V,110V and 220V

Motor Siren



Available in 12VDC,24VDC,110VAC,220VAC

Self Adhesive Gasket



Sizes available - 10x2mm,15x3mm & 15x5mm

Kwh Meter Window , Earth Bar & Spiral Wrapping Band



- Kwh meter window available in two sizes
- Light duty and heavy duty earth bar available in one meter length
- Spiral band available in 6mm,8mm,10mm,12mm & 15mm

Cable Gland BW & CW



Available Sizes
20S,20L TO 75S,75L

Copper Lugs



Available Sizes
2.5Sqmm x M5 to 630Sqmm x 21D

Copper Bush



Available sizes
6x15,6x20,8x10,8x15,8x20

10X38 Fuse Carriers



RCCB 2P AND 4P



hager

Technical Characteristics:

Voltage Range: 127 - 230V (2 Poles)
-6% + 10% (min 119V, max 254V)

Voltage Range: 230 - 400V (4 poles) -
6% + 10% (min 216V, max 440V)

Frequency: 50Hz

Specifications: IEC 1008

Working Temperature: -5 to 50°C

IP rating: IP2X

Tropicalisation : T2

Modular Contactors

hager



Contacts	Power Circuit	230V Cat. Ref.
1 NO	20A - 250VAC	ES110
1 NO + 1 NC	20A - 250VAC	ES210
2 NO	20A - 250VAC	ES220
	20A Low noise	ES237
	40A - 250VAC	ES240
	63A - 250VAC	ES263
2 NC	20A - 250VAC	ES230
3 NO	20A - 400VAC	ES320
	40A - 400VAC	ES340

Rail Mounting Isolators

hager



Technical Characteristics :

Complies with IEC60947-3

Voltage rating :

250V AC (1P, 2P)

400V AC (3P, 4P)

In : 16, 25, 32A

AC22B duty

Connection :

In : 80A (2 to 4 poles), 100A

AC22B duty

Connection:

50sq.mm rigid cables

35sq. mm flexible cables

10sq.mm rigid cables

6sq. mm flexible cables

In : 40, 63, 80A (1 pole)

AC22B duty

Connection :

25sq.mm rigid cables

16sq. mm flexible cables

Analogue Time Switches

Time Lag Switch

hager



New range of digital time switches with PC programmable key apart from traditional analog and digital time switches in various mounting options; with and without power reserves.

Technical Characteristics :

Standard : EN60730

Output : 16A 250V AC1 C/O

Operating voltage : 230VAC 50/60Hz



Technical Characteristics:

Voltage : 230V (+10% / - 15%)

Frequency: 50 / 60 Hz

Contact Rating : 16A AC1 230 V

Function: EM001N - standard time lag

switch with adjustable delay from 24s to 12Mins

Miniature circuit breakers

hager



RANGE MW MC MU NC NR

Voltage Range -20%/+ 10% 230 - 400 V

Frequency Hz. 50 / 60 Hz

Breaking Capacity to IEC 898 3kA 6kA 6kA 10kA

Breaking Capacity to IEC 947-2 10kA 10kA 15kA 25kA (20A)

20kA (25-40A)

15kA (50-63A)

Calibration Temperature 40° C

IP rating IP 2X

Mounting of auxiliaries No Yes No Yes Yes

(minimum voltage : 184V, maximum 440V)

Fuse Base Busbar Mounted RT1600R



Technical Data

- Rated current range:2-160A
- Rated voltage:500/690V
- Rated breaking capacity: 120KA(500V)

Order information

Fuse Base	Rate current In(A)	Material	Weight(g)	Reference
RT16-00R	160	Nylon	200	RT1600ZNR

Accessory-insulation board

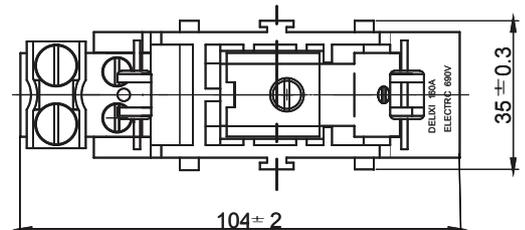
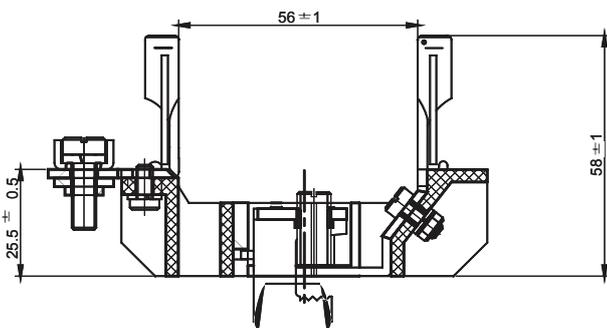


Material	Glass fiber board
Function	Insulating

Overall dimension



Unit:mm





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