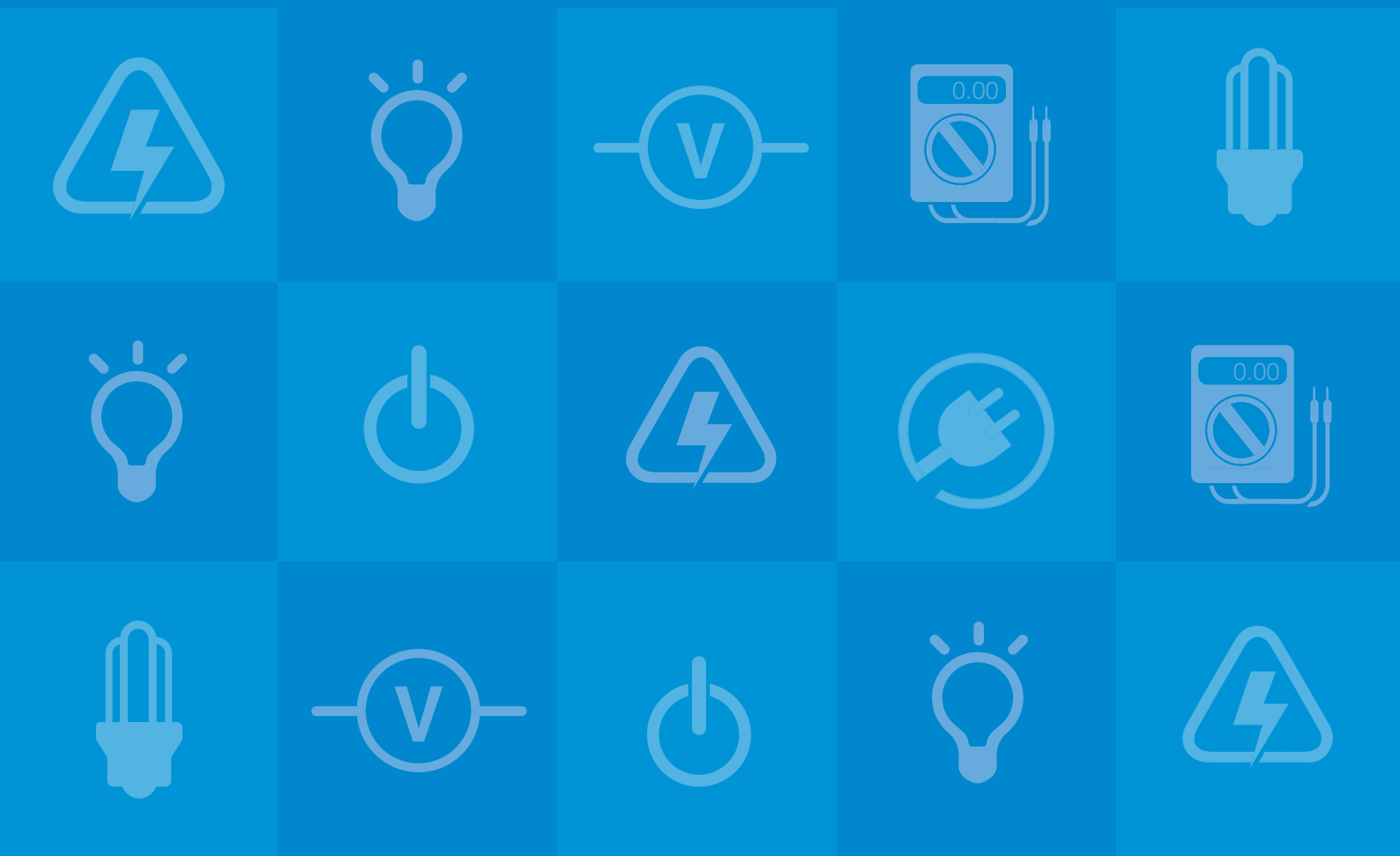




PROLIANCE

SWITCHGEAR SOLUTIONS

PRODUCT CATALOGUE





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.

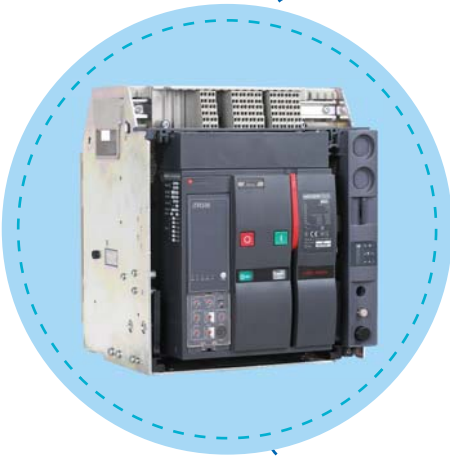


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P1

Air Circuit Breaker(ACB) - HDW9



Air Circuit Breaker

Main Characteristics

Frame(A):1600N, 4000H1, 4000H2, 6300L In (A):630 ~ 6300

- Ue (V):400/415, 690
- Poles: 3P & 4P
- Type: Fixed type & Draw-out type
- Certificates: CE, KEMA
- Standards:IEC 60947-2

P2

Molded Case Circuit Breaker (MCCB) - HDM6s



HDM6s Molded Case Circuit Breaker

Standard: IEC 60947-2

Basic Technical Data

- Rated Insulation Voltage Ui: AC 800V (Frame 63AF: AC 690V)
- Rated Impulse Withstand Voltage Uimp: 8KV (Frame 63AF: 6KV)
- Rated Working Voltage Ue: AC 415V (Frame 63AF: AC 400)
- Rated Working Frequency: 50Hz/60Hz
- Utilization Category: A
- Isolation Function: Applicable for all series

P3

Miniature Circuit Breaker (MCB) - HDB6



Miniature Circuit Breaker

Standard: IEC 60898-1

Trip Curve: B, C and D curves

Breaking Capacity: 3000/4500/6000A



P4 Residual Current Protection Module (RCCB) - HDB6VR

Residual Current Protection Module

Standard: IEC 61008-1

RCCB Type: AC, A

Sensitivity: 30, 100, 300mA

HDB6VR Residual current operated circuit breakers combine the following functions:

- Protection for users against indirect contacts
- Additional protection for users against direct contacts (30mA)
- Protection for electrical installations against insulation faults (fire hazard, etc)



P5 Switch Disconnecter (R/M Isolator) - HDB6IS



Switch Disconnecter

Standard: IEC 60947-3

HDB6IS switch disconnectors combine the following Function:

- Making and breaking normal load circuits
- Isolation

Number of poles 2,3,4

Rating: 20-125(A)



P6 HJX2-4P AC Contactor



AC Contactor

Standard: IEC 60947-4-1

Product Name	Rated Current	Main Current	Coil Voltage	Coil Frequency
HJX2	09	04	.	7
	09:9A 12:12A ... 95:95A	04:4NO+0NC 08:2NO+2NC	B:24V ... X:440V	7:50/60Hz



P7

HLD11 Indicator Light



HLD11 Indicator Light

HLD 11 Series of indicator light provide:
Pilot signal, anticipating signals
Emergency signals and other instructions incidents signal use

Technical Data

Rated Voltage(V)	AC/DC	AC
Rated Current(MA)	<50	≤20
Working Life (H)	30000	
Brightness of the light(cd/m2)	240	
Power Frequency withstand voltage	2500 V AC 1min	
Before board protect degree	IP65	

P8

HLMK Series Current Transformer



HLMK Series Current Transformer

Technical Data

Standard: IEC 60044-1
Primary current: 100A-5000A
Secondary approval: 5A, 1A
Maximum voltage: 0.66kV
Class: 0.5, 1.0, 3.0
Short time thermal current: I_{th}=100I_n
Rated security coefficient: FS<5

P9

HLY5 Selector Switch, Emergency stop & Push Button



HLY5 Selector Switches



HLY5 Emergency Stop



HLY5 Pushbutton Switches

HLY5 series of pushbutton switches provide: Control and indicate the status of the circuit

P10

H72 & 96 Series Panel Meter



H72 & 96 Series Panel Meter (Ammeter, Voltmeter, Frequency Meter, P.F Meter)

Standard	IEC 60051
Dielectric strength test	Frequency 50/60Hz Voltage 2000V, Duration 1 m
Impact test	Max acceleration 147m/s ²
Response time	≤4s
Angular Deflection	90
Temp.	-25 -+40
Humidity	(25%-80%)RH
Environment	No mildew, insects, salt mist, dew in the air, few sands and dusts are permitted.
Installation	Shall be installed vertically



P11

HKG816 Series Digital Times Switch



HKG 816 Series Digital Switch

Rated AC frequency of 50 Hz, rated AC control voltage 230V or below
Be used as time control components in automatic control circuit,
according to the scheduled time to time -on or off the circuits.

Cover	Output loops	Rated control voltage
Non-transparent cover	16-on16-off	AC230V HKG816B230
Transparent cover	8-on- 8-off	AC230V HKG816A230



P12

HRT Fuse Puller, 10x38 Fuse Carrier & 10x38 fuse links



HRT16 Fuse Puller

Material - ABS(frame resistance)
Usage - Assemble and replace HRT16 fuse



HRT18 Fuse Carrier

Rated working current 2-63A
Rated operation voltage 380V
Rated breaking capacity 100KA



HRT18 Fuse

HRT18 fuse provide:
Protection of circuits against
overload current, Protection of
circuits against short-circuit
current

P13

AC Contactor - HDC6



HDC6 AC Contactor

Standard: IEC60947-1, IEC 60947-4-1

Product Name	Rated Current	Auxiliary Contact	Coil Voltage	Coil Frequency
HDC6	09	11	M	
	09.9A	11:1NO+1NC	B:24V	Coil Frequency
	09	00:0NO+0NC	7:50/60HZ
	630:630A		X:440V	

P14

Thermal Overload Relay - HDR6



HDR6 Thermal Overload Relay

Product Name	Frame Current	Setting Current	Installation Type
HDR6	18	11	M
	18:18A	P15: 0.1-0.15	Default: None
	Independent
	630:630A	630:460-630A	Installation

P means decimal point

P15

Motor Circuit Breaker - HDP6



HDP6 Motor Circuit Breaker

Standard: IEC 60947-1,
IEC 60947-2,
IEC 60947-4-1

Product Name	Frame Current	Setting Current
HDP6	32	P16
	32:32A	P16:0.1-0.16A

		32:24-32A

P means decimal point

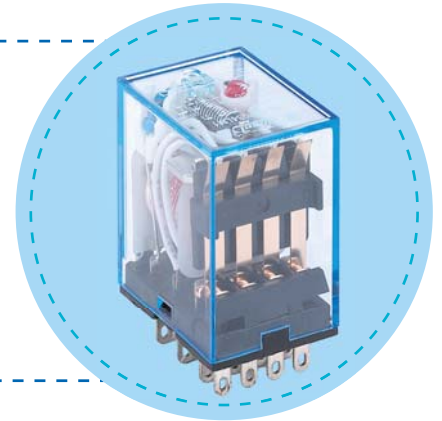
P16

Miniature Relay - HDZ8P



Miniature Relay

Used to implement the conversion of intermediate control signals and low-power output, In the field of industrial control, used in conjunction with contactors, relays, circuit breakers, etc.



P17

HDCH8S Modular Contactor



HDCH8S Modular Contactor

- Automatic control on Equipment in buildings
- Switch on or Switch off lighting or other equipments

Technical Information

Standard	IEC 61095	
Ambient Temperature	-5C~40C	
Rated Voltage Ue	230V AC	
Rated Insulation Voltage Ui	500V AC	
Operation Time	>30000 times	
Coil Volatge (Us)	220/23V AC	
Type	AC-7a	AC-7B
Rated Current (Ie)	20A/25A/32A/40A/63A	7A/8.5A/12/A/15A/25A
Rated Power	4kW/5.4kW/6.5kW/ 8.4KW/13KW	1.2kW/1.5kW/1.9kW 2.4W/3.8kW
Operation Frequency	1200times/h	30time/h
Making & Breaking Capacity	1.5le	8le

2P



4P



P18

CVM-NRG 96 System Analyzer



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 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

P19

Power Factor Regulator Computer MAX Series



Power Factor Regulator

The state-of-the-art regulators of the MAX Series have been designed to offer simple and efficient regulation features. The whole range of computer regulators is based on CIRCUTOR's FCP system (Fast Computerized Program), offering a set of unique performance features. Its main features are as follows:

Shows by display: $\cos \varphi$, voltage, current, THD(I) and, besides, records in memory maximum values for voltage and current provides the "phase selection" function, that allows the user choosing

the power line phase where the measuring current transformer (C.T.) has been placed in allows viewing in display the variation of $\cos \varphi$, line current and THD(I), when manually connecting or disconnecting capacitor steps.

Indication by display or through relay output of following alarm conditions: Compensation failure, Over-compensation, Over-voltage, Over-current, C.T. not connected or open, Line current below measurable value.

P20

Current Measuring Transformers



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



P21

Earth Leakage Relay - RN Series



Earth Leakage Relay

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



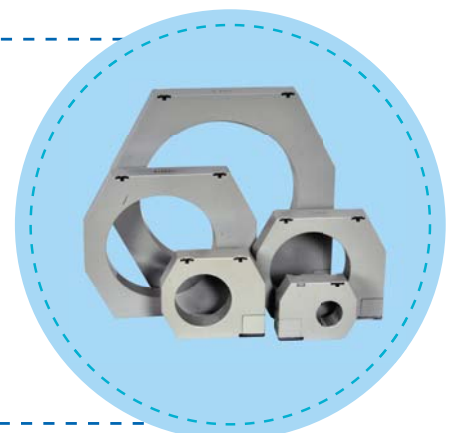
P22

Differential Transformer WN series



Differential Transformer

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



P23

Small, Compact Thermostat KTO 011 / KTS 011



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

P24

Mechanical Hygrostat MFR 012



Mechanical Hygrostat

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

P25

RFP 018 Roof Filter Fan 177 - 338 CFM



RFP 018 Roof Filter Fan

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

P26 Small Semiconductor Heater HGK 047 Series 10W To 30W



Small Semiconductor Heater

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



P27 Filter Fan FF 018 Series 21m³/h-102m³/h



Filter Fan FF 018 Series

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



P28 Semiconductor Heater HG 140 Series 15W to 150W

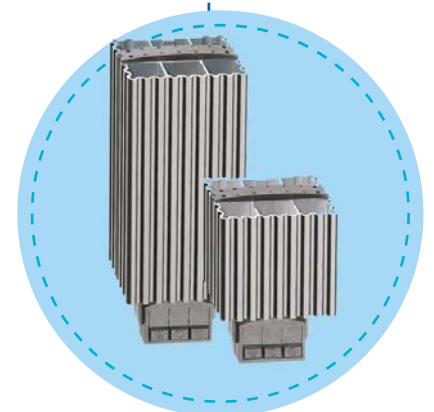


Semiconductor Heater

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

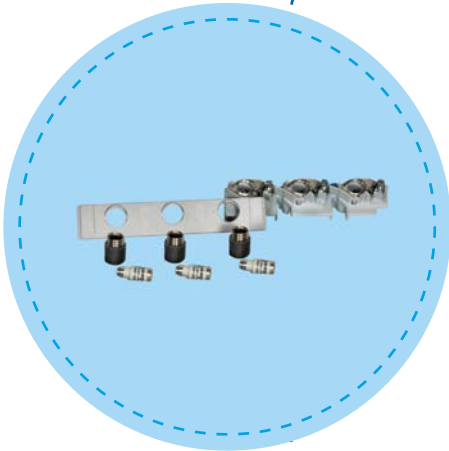
- Pressure clamp connectors
- Dynamic heating up
- Wide voltage range
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation



P29

D02 Busbar Mounting Fuse Base Systems

wöhner
H04Cat plus



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

P30

Busbar Insulators

POWERMAT
An ISO 9001 : 2000 Company



Conical Insulator & Hexagonal Insulator

All Dimensions are in MM

Insert : Brass / Steel (Zinc Passivated)

Material : DMC (Dough Moulding Compound) (UL 94 V-0)

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

P31

Panel Filter Fan and Filter



Sizes Available	150x150, 204x204, 250x250, 350x350
Colors Available	RAL 7032 & RAL 7035
Protection Degree / Class	IP54
Service life (at 40°C)	50,000 Hr
Mounting – Fast Clip-on	Fast Clip-on
Conformity/Approvals	CE

P32

Ammeter Selector Switch, Voltmeter Selector Switch



4 Position Ammeter Selector Switch



7 Position Voltmeter Selector Switch

P33

DC Power Supply



DC Power Supply

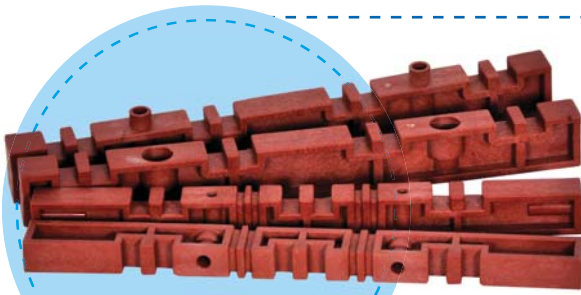
Features

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



P34

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

Other datas

Melting temperature	°C	214
Max operating temp permanent	°C	160
Max operating temp short time	°C	200
Form stability	°C	215
Moisture absorption	%	1.9-2.4

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

P35

Led Indication Lamps, Panel Filter Fan 120X120



Led Indication Lamps



Features

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

Panel Filter Fan 120X120



P36

Variable Frequency Drive - Frenic Mini, Multi & Eco Series



Variable Frequency Drive

Features

- 0.75kw to .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

P37

Fuse Base Busbar Mounted - HRT1600R



Fuse Base Busbar Mounted

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

Fuse Base	Rate Current	Material	Weight(g)	Reference
HRT16-00R	160	Nylon	200	HRT1600ZNR



Accessory-insulation board

Material	Glass fiber board
Function	Insulating



HRT 16 Fuses

- Protection of circuits against overload current
- Protection of circuits against short-circuit current

P38

General Accessories

Terminal Block, Terminal Marker, Wire End, Neutral Link, Cable Marker, Heat Shrinkable Sleeve



Sizes available - 2.5 sqmm to 90 sqmm



Wire end

Ring lug, Spade lug, Cylindrical lug (All insulated)

Neutral link

7 way,10 way and 13 way

Cable marker sizes available

2.5mm,4mm,6mm,10mm & 16mm



P39

Digital Measuring Instruments



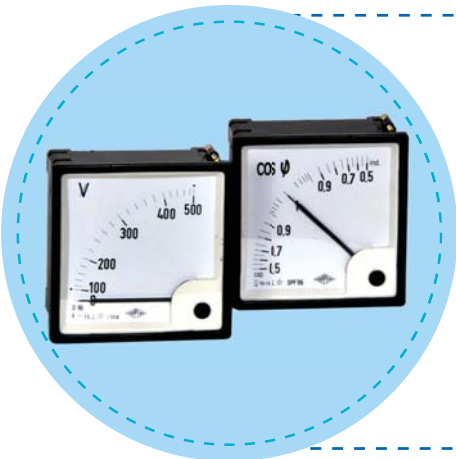
Digital Measuring Instruments

Features

- Digital Ammeter
- Digital Voltmeter
- Digital Energy Meter
- Digital Multi Function Meter

P40

Analogue Meters



Analogue Meters

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

P41

Panel Buzzer



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

P42

Motor Siren, Self Adhesive Gasket

Motor Siren



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

Self Adhesive Gasket



Sizes available - 10x2mm,15x3mm & 15x5mm

P43

Kwh Meter Window, Earth Bar & Spiral Wrapping Band



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

P44

Copper & Brass Products



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



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