

MCB

Eurobreaker



Range

- 6A to 40A in 'B' curve ■ 0.5A to 63A in 'C' curve ■ 0.5A to 63A in 'D' curve
- 0.5A to 63A for DC application ■ 0.5A to 60A for railway application

Higher Rating : 80A, 100A, 125A

Execution

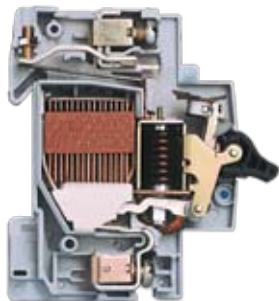
- Single Pole (SP) ■ Single Pole & Neutral (SPN) ■ Double Pole (DP)
- Three Pole (TP) ■ Three Pole & Neutral (TPN) ■ Four Pole (FP)

Specification

IEC 60898 - 2002 / IS 8828-1996

Features

- 10kA short circuit breaking capacity for 'B' and 'C' curve
- Low power consumption, thus cost effective & energy saving
- Suitable for DC application
- "Finger Safe" terminals - IP 20 degree of protection
- Dual termination facility
- 15 Plate Arc Chute for effective arc quenching
- Silver graphite contacts for enhanced life
- Accessories - Auxiliary Switch - Shunt Trip



HAVELLS



Product Certificate

Changeover Switch



mini

Range

25A, 40A

Execution

- Double Pole (DP) ■ Four Pole (FP)

Specification

IEC 60947-3 / IS 13947 - 3

Features

- Compact construction
- Double break contacts
- Silver cadmium oxide contact tips
- Shrouded terminals
- Front operation with three stable positions I-O-II
- Isolator at middle position
- Easy snap on DIN Rail mounting
- Can be mounted with other products viz. MCB, RCCB, Isolator in Distribution Board



HAVELLS

RCCB

Eurobreaker



Range

16A to 63A

Higher Rating

80A, 100A, 125A

Sensitivity

30mA, 100mA, 300mA, 500mA

Execution

■ Double Pole (DP) ■ Four Pole (FP)

Specification

IEC 61008 - 1 / IS 12640 - 1: 2000

Features

- Simple and robust operating mechanism.
- Rotary handle with on/off indication in 4P
- Dual termination for Bus Bar as well as cable connection
- Advance neutral
- Test button for regular inspection



HAVELLS



Product Certificate



Eurobreaker

Residual Current Circuit Breaker with
Overload & Short Circuit Protection (RCBO)

Range

6A, 10A, 16A, 20A, 25A, 32A, 40A

Sensitivity

30mA, 100mA, 300mA

Execution

- SP & N ■ TP & N

Specification

IEC : 61009-1:2002 / IS : 12640 (Part 2) : 2001 / EN : 61009-1:2004

Features

- Electronic Release (Voltage Dependent) having precise sensitivity to residual faults
- Breaking Capacity 10 kA
- Detect Pulsating DC Faults — 'A' type
- Provision to accommodate in TPN distribution boards
- Large terminals capacity i.e. 35 mm² for cool running while in operation
- Enhanced immunity against nuisance tripping



Distribution Board

*Euro*DB



Range

Single Phase & Three Phase Distribution Boards

Specification

IS 13032 / IS 8623 (PART3)

Features

- Aesthetically superior DBs to suit the style of your home decor
- Choice of multiple incomer MCB, Isolator, MCB + RCCB, Changeover + RCCB, Isolator + RCCB
- When Per Phase Isolation DBs is in use, only that phase where the earth leakage faults exist gets isolated
- Complete range of DBs with detachable gland plates at the top and bottom with knockouts on the sides of DB to increase the flexibility of cables / conduit entry from all directions
- Ready to use DBs that are supplied with neutral links, earth links, bus bar and inter connecting wire/links



HAVELLS

Air Circuit Breaker



Titania
air circuit breaker

Range

Frame Size	Current rating (Amps)	Breaking Capacity (KA)	Execution
E	630-2000	50	3P/4P
S		65	3P/4P
H	2500	75	3P/4P
V	3200-4000	100	3P/4P

Specification

Conforms to IEC 60947-2 / IS 13947-2

Utilisation Category

'B'

Type

Manual Fixed / Manual Draw out

Electrical Fixed / Electrical Draw out

Features

- Compact size, wide range & high breaking capacity.
- First frame available upto 2000A.
- Common height, depth and panel door cutout.
- Common, plug in type, front accessible accessories for entire range.
- Modular construction for pole unit.
- Easily replaceable arcing contacts.
- Available with communication facility.



MCCB

LOADLINE



Range

Frame Size	Current Rating (Amps)	Breaking Capacity (KA)	Execution
GS	25-125	10	1P/3P/4P
GN	25-125	16	1P/3P/4P
GH	25-100	25	3P/4P
FN	25-250	35	3P/4P
FH	25-250	50	3P/4P
AS	25-125	25	1P/3P/4P
AS	160-200	16	3P/4P
AN	25-125	35	3P/4P
AN	160-250	25	1P/3P/4P
CN	160-800	35	3P/4P
CH	160-800	50	3P/4P
DN	1000-1600	50	3P/4P



Specification

Conforms to IEC : 60947-1&2 / IS:13947-1&2

Utilisation Category

'A'

Type

Manual, Independent, Thermal / Magnetic

Features

- Compact size & wide range of accessories.
- Adjustable thermal / magnetic setting.
- Suitable for use as switch disconnector.
- 4PwSN version, with advance neutral.
- Separate main and arcing contacts.
- Uniform front escutcheon plate.
- Suitable for DC application.
- Available in open execution and in sheet steel enclosure.

KEMA
Netherlands

CE
EUROPE

ISI

CB

PG
GOST-RUSSIA

Product Certificate

HAVELLS

Digital MCCB



LOADLINE
digital

Range

Frame Size	Current rating (Amps)	Breaking Capacity (KA)	Execution
FEN	25-250	35	3P/4P
FEH		50	3P/4P

Specification

Conforms to IEC: 60947-2 / IS: 13947-2 &
EMI/EMC - IEC: 61000-4-2 / 3 / 4 / 5 / 6

Utilisation Category

'A'

Type

Digital (micro processor based)

Features

- True RMS sensing - Accurate and close protection.
- High repeat accuracy - reliable protection.
- User friendly multiple adjustment option - flexibility and versatility.
- Time delay on overload & short circuit faults - discrimination.
- Built in adjustable overload / short circuit sensing.
- No external power required for basic functioning of the release.
- Built in operation-check function with Field Testing Provision.



HAVELLS

Panel Board System

LOADBANK



Range

	Load Bank - G Frame Panel Board	
Incomer 3P/4P	AA Frame upto 250A	C Frame upto 400A
Outgoing no. of ways 3P/4P*	2,4,6,8,12,16 G Frame upto 125A	2,4,6,8,12,16 G Frame upto 125A
Busbar Rating Short Time withstand current	250A 25kA for 1 sec.	400A 35kA for 1 sec.

	Load Bank - AA Frame Panel Board	
Incomer 3P/4P	C Frame upto 400A	C Frame upto 800A
Outgoing no. of ways 3P/4P*	4,6,8,12 way A Frame upto 250A	4,6,8,12 way A Frame upto 250A
Busbar Rating Short Time withstand current	400A 50kA for 1 sec.	800A 50kA for 1 sec.

Specification Fully application oriented as per IEC:60947-1 & 2 / IS:13947-1 & 2, IEC: 60439 / IS:8623 & IEC:60529 / IS: 2147

Type 'G' frame panel boards upto 400A
'A' frame panel boards upto 800A

Features

- CPRI tested Busbar section upto 50kA
- Ready made & customised solutions for load management.
- Modular construction & compact size provides economy of space, time & cost.
- Designed for floor mounting / wall mounting.
- Specially designed shrouded busbar provides safety.
- No. of ways option permits future system expansion.
- Easy add on modules to house various devices offers simplicity & flexibility.
- Elegant & sleek in appearance.



HAVELLS

Automatic Transfer Switch



INSTALINE

Range

Frame Size	Current Rating (Amps)	Execution
1	100, 160	3P / 4P
2	200, 315	3P / 4P
3	400, 630	3P / 4P

Specification

Conforms to IEC: 60947-6-1 / IEC: 60947-1 / IS:13947-1

Utilisation Category

AC-31A

Type

PC

Features

- High speed transfer.
- Superior making & breaking capacity.
- Compact & light weight design.
- Positive indication through flag indicator.
- Neutral point transfer.
- Liberal terminals.
- Provision of phase separator.
- Available in open execution and in sheet steel enclosure.



HAVELLS

Changeover Switch

euroload



Range

Frame Size	Current Rating (Amps)	Execution
00	40, 63, 80, 100	4P
0	125, 160, 200	
I	250, 320	
II	400, 630	
III	800	
IV	1000, 1250, 1600	
V	2000, 2500, 3150	

Specification

Conforms to IEC: 60947-1 & 3 / IS: 13947-1 & 3

Utilisation Category

AC-23A

Type

Double Break

Features

- High electrical & mechanical endurance.
- Enclosed housing to avoid dust ingress.
- Staggered terminals upto 800A.
- Load and Line reversibility.
- Provision of phase separators, add-on auxiliary switch.
- Handle with door interlock and padlock facility.
- Advance neutral - makes first & breaks last
- Provision of arc chutes.
- Available in open execution and in sheet steel enclosure.



HAVELLS



GOST-RUSSIA

Product Certificate

By-pass Changeover Switch



euroload

Range

Frame Size	Current Rating (Amps)	Execution
00	63, 100	4P
0	125, 160, 200	
I	250, 320	
II	400, 630	
III	800	
IV	1000, 1250, 1600	

Specification

Conforms to IEC: 60947-1&3 / IS: 13947-1&3

Utilisation Category

AC-23A

Type

Double Break

Features

- Robust and reliable mechanism provides total disconnection.
- Quick make and break operation, independent of the operating speed enables the switches to open and close under stringent conditions.
- Nylon 66 FR Grade, switch housing provides excellent mechanical, di-electric and thermal properties.



HAVELLS

Switch Disconnect

euroload



Range

Frame Size	Current Rating (Amps)	Execution
00	40, 63, 80, 100	4P
0	80, 100	3P
0	125, 160, 200	3P/4P
I	250, 320	3P/4P
II	400, 630	4P
III	800	4P
IV	1000, 1250, 1600	4P
V	2000, 2500, 3150	4P

Specification Conforms to IEC: 60947-1&3 / IS: 13947-1&3.

Utilisation Category AC-23A

Type Double Break

Features

- High electrical & mechanical endurance.
- Enclosed housing to avoid dust ingress.
- Liberal terminals.
- Provision of phase separators, add-on auxiliary switch.
- Provision of arc chutes.
- Separate main & arcing contacts.
- Handle with door interlock and padlock facility.
- Available in open execution and in sheet steel enclosure.



HAVELLS

Offload Changeover Switch



Range

Version	Current Rating (Amps)	Voltage (Volts)	Execution
Onload	32	240	DP
	32-100	415	TP
	16-100	415	FP
Offload	200-2000	415	FP

Specification

Conforms to IEC: 60947-1&3 / IS: 13947-1&3

Utilisation Category

AC-23A (Onload) AC-21A (Offload)

Type

Side operated, single break

Features

- Suitable for individual mounting, inner mounting holes and mounting brackets provided in enclosures.
- Sheet steel enclosure duly phosphatised and powder painted.
- Provision for door interlocking.
- Termination suitable for Aluminum cables, adequate knockouts provided in the enclosure for cable entry.



Contactor



Range

Frame Size	Size (mm)	Execution	Current Rating AC-3 Duty (Amps)	Power Rating (kW)
I	45	3P/4P	9, 12, 16	4, 5.5, 7.5
II	45	3P	18, 25, 32	9, 11, 15
III	70	3P	40, 50, 70, 80	22, 25, 37, 40
IV	118	3P	95, 125, 140, 170	45, 63, 75, 90
VI	163	3P	250, 325, 400	140, 185, 220

Specification Conforms to IEC: 60947-1&4 / IS:13947-1&4

Utilisation Category: AC-23A

Type Air break

Features

- Common side & front mounted auxiliary contact blocks upto 80A.
- Top & bottom wiring option for coils upto 80A contactor.
- Front access to contacts.
- Shrouded terminals for safety against accidental touch.
- Liberal creepage values & superior grade housing material.
- DIN Rail mounting upto 80A Contactors.
- Wide range of accessories such as add on Auxiliary Contact. Block, Mechanical Interlock, Electronic Star Delta Timer, Surge Suppressor, Wide Band Coil.



CB

Netherlands

Product Certificate

HAVELLS

Thermal Overload Relay



Range

Version	Current rating (Amps)	Relay setting
Contactor mounting	0.16-80	26
Individual mounting	0.16-34	18
CT operated	24-400	8

Specification

Conforms to IEC:60947-1&4 / IS:13947-1&4

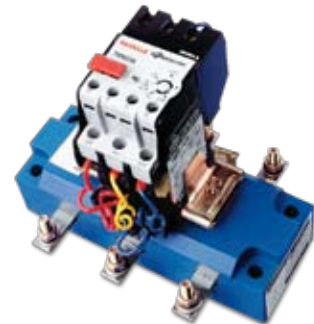
Type

Auto reset

Auto / Manual reset

Features

- Protection against overload & single phasing.
- Manual / auto reset facility.
- Ambient temperature compensated.
- Off & test mode facility in certain sizes.
- Individual or DIN Rail mounting facility.
- Matching to the contactor size upto 80A.



Motor Starter



Range

Starter Type	Power rating	
	(HP)	(kW)
Direct on line	0.75-100	0.5-75
Star Delta	10-150	7.5-110
Reversing Starter	2-20	1.5-15

Specifications

Conforms to IEC: 60947-4-1 / IS: 13947-4-1

Utilisation Category

AC-3

Features

- Protection against overload & single phasing.
- For agricultural application with wide voltage band coils.
- Ambient temperature compensated (-50°C to 55°C).
- Deep drawn / fabricated sheet steel enclosure duly phosphatised and powder coated.



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Switch Disconnecter Fuse



KOMPACT

Range

Frame Size	Current Rating (Amps)	Execution	Type of Fuse
1	32, 63	DP, TPN, FP	
2	100, 125	DP, TPN, FP	
3	160, 200, 250	TPN, FP	BS / DIN
4	320, 400	TPN, FP	
5	630, 800	TPN, FP	

*32 - 800 isolator version

Specifications Conforms to IEC: 60947-1 & 3 / IS: 13947-1 & 3

Utilisation Category AC-23A

Type Front operated, Double Break

Features

- Front operated, positive isolation switch mechanism.
- Multi Break arcing contacts per pole.
- Stationary Fuse Links prevent loosening of fuses.
- Handle with Padlock, Door interlock and defeat mechanism facility.
- Add-on auxiliary switch.
- Available in open execution and in sheet steel enclosure.



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Product Certificate

HAVELLS

Fuse Switch & Switch Fuse



Range

Switch unit	Current Rating (Amps)	Voltage (Volts)	Execution
Fuse Switch	63-800	415	TPN/FP
Switch Fuse	16-32	240	SPN/DP
	63	415	SPN/DP
	16-320	415	TPN

Specification Conforms to IEC: 60947-1&3 / IS: 13947 - 1&3

Utilisation Category AC-23A (Fuse Switch)
AC-22A (Switch Fuse)

Type Side operated, Double break (Fuse Switch)
Side operated, Single break (Switch Fuse)

Features Fuse Switches

- Positive indication of contacts.
- Suitable for surface mounting.
- Door interlock facility.
- Sheet steel enclosure duly phosphatised and powder painted.

Switch Fuses

- Suitable for surface mounting.
- Sheet steel enclosure duly phosphatised and powder painted.
- Provision of conduit knockouts and detachable gland plates.



Fuse Holder



CAMLOCK

Range

Type of Connection	Current Rating (Amps)	Breaking Capacity (kA)	Type of Fuse
Front	20, 32, 63, 100	80	BS / bolted
Busbar	20, 32, 63, 100		
Rear	20, 32, 63, 100		

Specification

Conforms to IEC: 60269-1 & 2-1 / IS: 13703-1 & 2-1

Utilisation Category

gG (General Purpose)

Features

- Single case construction.
- High breaking capacity withstand.
- Smooth removal of fuse carrier with the fuse by CAM operated lever.
- Live parts completely shrouded.
- Dual termination facility for bus bar & cable connection.
- Three types of connection to suit different application needs.
- Provided with both DIN rail & screw mounting facility.
- Liberal terminal capacity.



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Product Certificate

HAVELLS

Fuse Link & Fuse Base

HIBREAK



Range

Type	Current Rating (Amps)	Breaking Capacity (kA)
BS	2-630	80
DIN	6-630	
RH	4-63	

Specification

Conforms to IEC: 60269-1 & 2-1 / IS: 13703-1 & 2-1

Utilisation Category

gG (General Purpose)

Type

Bolted / knife blade / round head

Features

- Excellent AC and DC performance.
- Low watt loss.
- Interchangeable with compatible brands.
- ISI Marked.



Product Certificate

HAVELLS

Nylon Fuse Base



HIBREAK

Range

IS Size	Current Rating (Amps)	Breaking Capacity (kA)	Type of Fuse
00	100, 125, 160	80	DIN / Knife Blade
1	250,		
2	400,		
3	630		

Specification Conforms to IEC 60269-1 & 2-1 / IS 13703-1 & 2-1.

Utilisation Category gG (General Purpose)

Type Open

Features

- Fibre glass reinforced engineering plastic materials with high mechanical strength, electrical & thermal withstand.
- Ease and Speed of Installation - by Screws or on DIN Rail (only for size 00). Ease of installation by screws for other sizes.
- Snap on mounting of phase barriers for increased creepage / clearance.
- Current carrying fuse contacts / terminals made from precisely pressed copper material, silver plated to ensure long life, non-deteriorating contact surface for high efficiency mating.
- Pressure Circlip of spring steel material to maintain & ensure adequate pressure and temperature rise well within specified limits.



HAVELLS

Energy Efficient Motors



HAVELLS-LAFERT MOTORS
Manufactured with Technology from AEG Electric Motors



Range

KW	:	0.06 to 200 KW
HP	:	0.08 to 270 HP
Frame	:	56 to 315
Pole	:	2, 4, 6 & 8
Type	:	Totally enclosed fan cooled (TEFC)
Insulation	:	Class F and Temperature rise limited to class B
Ambient	:	50 degree

Conforms to

IS : 325 : Three phase induction motors

IS : 1231 : Dimensions of three phase foot mounted AC induction motors

IS : 12615 : Energy efficient motors

Salient Features

- High efficiency results in saving of energy bills
- Low weight to output ratio
- Multimount construction of easy change of terminal box position (upto 132 frame)
- Suitable for standard VFD drives
- Good aesthetics and surface finish
- Better heat dissipation
- 6 Lead Terminal Box



Product Certificate

HAVELLS

Cylindrical Capacitor



Range

Version	Capacitor Duty	Model	KVAr Rating
Square (Box)	Normal	MINI MASTER / MASTER	1.0 - 50
	Heavy	MASTER^{PLUS}	1.0 - 50
	Super Heavy	CHAMPION	1.0 - 50

Version	Capacitor Duty	Model	KVAr Rating
Cylindrical	Normal	HERCULES	1.0 - 25
	Heavy	PHANTOM	1.0 - 25
	Agriculture	AGRI BOOST	1.0 - 10

Specification

Conforms to IEC: 60831 / IS: 13340

Type

MPP Film, resin filled

Features

- Very low watt loss - 0.06 W / KVAr
- Provision of triple safety by bellow shield, notch shield (mechanical fuse) & self healing shield.
- Special metalised film profile to withstand high voltage and current stress.
- Provision of Inductor coil in box (version) for limiting Inrush current.
- Provision for floor / wall mounting.



PVC Insulated Industrial Cable



Range

PVC Insulated Single Core Multistrand Copper Conductor Industrial cables (Unsheathed) 1100 Volts, conforming to IS:694

Types

- Life Line FR
- Life Guard FR-LSH
- Life Shield ZHLS

Other Range

- PVC Insulated Multi Core Round Copper Conductor PVC Sheathed (FR & FR-LSH) 1100 Volts conforming to IS:694
- Flat Three Core Submersible PVC Insulated Industrial Cable 1100 Volts, Conforming to IS:694
- Co-axial TV Cables
- Telephone Cables (Unarmoured)



HAVELLS

 **TAC FIA**
Product Certificate



XLPE
POWER &
CONTROL CABLE

Features

- Highly compacted conductors to reduce AC losses which are due to skin and proximity effect
- Purest insulation to bear thermal and thermo-mechanical stresses at continuous normal and short circuit temperature conditions
- Complete protection against most forms of electrolytic and chemical corrosion
- Extruded inner sheath (for XLPE insulated power cable HT)
- Sequential length marking on outer sheath of the cables
- Over 90% armour coverage of armoured cables



Conforms with International Standards

Consumer Lighting



Features

- Wide range of energy efficient luminaires for domestic and decorative applications
- Wide range of Electromagnetic & Electronic luminaires
- Replaceable energy saving HF electronic ballasts
- Energy efficient CFL & T5 range products
- World renowned innova spotlight range with unmatched energy saving & minimal heat generation
- Wide range of electronic downlighter with pre-fitted replaceable HF ballast & CFL lamps - innova downlighter, Ionon, Lonova.
- Attractive range of energy efficient electromagnetic & electronic ballasts and accessories
- Easy to install & maintain



HAVELLS

Commercial Lighting



Features

- Powder coated decorative range for modern commercial offices, business establishments, call centers, banks & other works spaces
- Varied choice of luminaires for different ceiling systems in Gypsum, POP, Modular and Luxalon
- Attractive range of surface mounted mirror optics with multiple lamp options
- Suitable for Energy efficient T5, CFL & FTL lamps
- Low loss EM controlgear and Digital HF Electronic controlgear
- Wide range of new generation direct-indirect lighting system



Industrial Lighting



Features

- Range of heavy duty & rugged industrial battens, lowbay, mediumbay & highbay, wellglass and corrosion proof luminaires
- Option of wide variety Luminaires suitable for FTL, T5 and HID lamps
- Choice of electromagnetic & HF electronic controlgear options
- PRODIGY - Retrofit T5 lighting solutions
- Open and Enclosed versions of HID industrial Highbay range
- IP 65 rated Magnum range made of polycarbonate for wet location
- Dust-tight Wellglass range in integral & non-integral versions



HAVELLS

Area Lighting



Features

- Wide range of floodlights for area lighting, sports lighting, tunnel lighting & architectural facade lighting applications
- Complete die cast aluminium construction with IP 65/ IP 66 weatherproof protection
- Integral & non-integral options with choice of Halogen, HPMV, HPSV and MHL lamps
- Symmetrical & Asymmetrical photometric options
- Precise controlled beam light luminaires suitable for spotlight in extruded aluminium
- Designer range for façade and monument lighting



Downlights Lighting



Features

- Attractive range of Integral & Modular range of CFL downlighters in Standard and Speciality range
- Vertical & Horizontal lamp versions with single and twin lamp options
- Speciality downlighters with Cross & Radial Louvre Options
- MHL downlighter range in circular and rectangular wall washer applications
- Attractive options of energy pack controlgear or economic DL controlgear tray



HAVELLS



Features

- Modern range of roadway Luminaires deepdrawn & die-cast aluminium constructions
- Suitable for variety of lighting sources e.g., FTL, HPMV, HPSV and MHL lamps
- Heavy duty controlgear with copper electromagnetic ballast & option of HF electronic controlgear of FTL luminaires
- Precise Optics Technology (POT) reflector for effective light distribution
- Choice of acrylic or heat resistant toughened glass cover
- Designer architectural streetlighting range in OPTAL, ACCENT and ELLISSE with IP 66
- High IP rated luminaires comes with advance feature light "star case" reflector & "breathing pole"

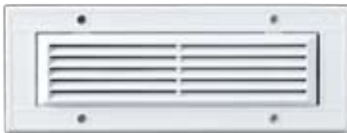


Bunker & Landscape Lighting



Features

- Attractive range of cast aluminium bunker lights for CFL / GLS lamps
- Wide range of design options
- Long lasting powder coated finish
- Easy to install and maintain
- Glare free lighting by CITY & CORONA range
- Elegant shapes
- Pressure die-cast / extruded aluminium housing with powder coating
- Impact resistant UV stabilised polycarbonate lense
- Optimised for pedestal / post top mounting
- Suitable for variety of lighting sources e.g., CFL, HPSV & MH lamp



Speciality Lamps



Features

- Complete range of Halogen, HPMV, HPSV, MH lamps & T5 lamps
- Choice of different colour temperature
- High CRI (Colour Rendering Index)
- High lumen output
- Long burning life



CFL



Retrofit Range

Lilliput 11W, 15W, 20W, 23W

Dwarf Available in 5W, 8W, 11W

Normal Available in 11W (DU), 15W (DU), 15W (TU), 20W (TU), 23W (TU), 26W (TU)

Higher Range Available in 35W, 45W, 65W & 85W (FP)

Mini Spiral Available in 7W, 9W, 11W, 13W

Spiral Available in 15W, 20W, 27W

- Available in B22, E27, E14 base
- Choice of 2 colour temp. (Cool Day Light - 6500K, Warm White - 2700K)

Non-Retrofit Range

Available in 5W (SU), 7W (SU), 9W (SU), 11W (SU), 10W (DU), 13W (DU), 18W (DU), 26W (DU)

Base available in G23, G27, G24d, G24q, 2G11 (2pin, 4pin)

FP-L

Available in 18W, 36W

- Choice of 3 colour temp.
(Cool Day Light - 6500K, Cool White - 4000K, Warm White - 2700K)



HAVELLS



Product Certificate

Ceiling Fans



Range

- **Premium Under Light Fans**
 - Aureus • Mozel • Cedar • Maestro
- **Special Finish Fans**
 - Pentaforce • Yorker • Woodster • Florence
 - Flamingo • Candy (Kids' fans) • Skipper
- **Decorative Fans**
 - Fabio D'zire • Fabio • Oyster
 - Fusion 2 • Fusion • Festiva
 - Festiva Solids • Fiesta
 - SS-390 Deco • Spark Deco
- **Energy Saving Fans**
 - Fusion-50 • ES-50
- **Standard Fans**
 - SS-390 Metallic • SS-390 • Velocity
 - Speedster
- **Super High Speed Fans**
 - Speedster • Fusion • Velocity



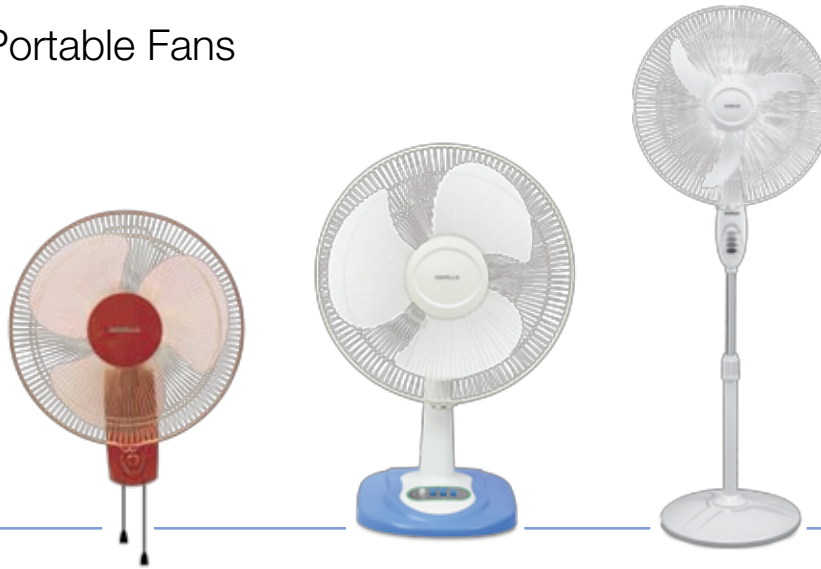
Features

- Unique body design
- Optimum performance even at low voltage
- Double ball bearings
- Wider tip blades for effective air circulation
- Perfectly streamlined body
- Powerful motor with silent operation



HAVELLS

Oscillating Portable Fans



Range

- **Table Fans**
 - Swing • Swing LX • Wings • Spark • Velocity
 - Sprint 2000
- **Wall Mounting Fans**
 - Swing • SS-2000 • Swing Gyro • Swing Premia Gold
 - Swing Remote • Diva Wall Fan • Swing Platina
 - Swing Platina Hi-Speed • Airboll
- **Pedestal Fans**
 - Swing • Swing Remote • Swing Mobile • Diva Pedestal
 - Sprint Hi-speed • Sprint

Features

- Jerk free oscillation
- Superior low voltage performance
- Dynamically balanced blades for smooth running
- Aerodynamically designed and balanced blades
- Oscillation & speed control by pull chains



Exhaust Fans



Range

- **Ventilating Fans (Metal)**
 - Ventil-Air TF • Ventil-Air DB • Ventil-Air DS
- **Ventilating Fans (Plastic)**
 - Ventil-Air DX • Ventil-Air DXR • Ventil-Air DXW
 - Ventil-Air-DX-WE • Ventil-Air-DXC • Ventil-Air-DX-CE
- **Industrial Exhaust Fans**
 - Turbo Force
- **Turbo force Air Circulators**
 - Wall Fan • Pedestal Fan

Features

- Heavy duty performance
- Robust construction
- Sturdy steel bird guard
- Modern design, fashionable and elegant look
- Easy installation and cleaning
- Multiblades design, large blade angle & width to ensure the best air delivery and low noise.



Modular Plate Switches



A new addition to the Havells product portfolio is: a range of aesthetically designed modular plate switches that are engineered to deliver protection and built to last. A well-designed knob provides soft operation and the ultra-tech mechanism ensures longevity. These switches promises quality and reliability. Available in a pure white finish, these switches lend pristine beauty to your walls for years.



Coral

Pearlz

Modular Plate Switches



Thames

What makes Crabtree the best, is advance technology blended with excellence. Crabtree switches, sockets and accessories are designed for the rugged Indian conditions. The range is created from fire retardant, self extinguishing polycarbonate plastic, which withstands the glow wire test at 960° C. Ultra-violet stabilised material is used to avoid discoloration even after long exposure to sunlight.



Sapphire



Emerald



Platinum



Ovation



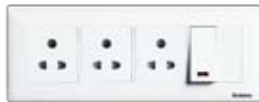
Modular Plate Switches

athena



Crabtree Products represent a fine blend of Art & Science. Designing aesthetically appealing products by maintaining high level of Engineering Excellence has helped Crabtree over the years to maintain a leadership position in its product offerings. Crabtree now brings out a shining range of switches called Athena.

Designed specifically using high grade engineering plastics to give highest quality finish, durability and high resistance. Ease of installation is one more advantage of this range with an added advantage of removable covers of switches. Athena's special design minimizes any likelihood for dirt traps.



INVENTORS
OF SWITCHES

Modular Plate Switches



Piccadilly

Crabtree Piccadilly presents “Serene” which is our new range of modular plate switches. Serene is specially designed to ensure that the switches make minimum noise when switched ON or OFF.

‘Surround’ plates comes across as whisp of fresh air to those who are on the lookout for something new. These plates are a combination of two plates “Inner” and “Outer”, which amalgamate into the complete switch design. The outer plates are available in Soothing White, Rocking Maroon, Serene Green & Merry Yellow. The inners are available in White, Grey and Charcoal Grey.

Piccadilly presents ‘Stripes’, a single plate design with an option of three pairs of coloured strips. The plates come in Soothing White, Rocking Maroon, Serene Green and Merry Yellow with strips in all the above colours.



Stripes



Surrounds



Serene



Digital Dimming

aura IWS



aura IWS is a in-wall switching system, which offers the flexibility of controlling incandescent, halogen, fluorescent, CFLs and also the speed of fans through group scene controlled by remote. A multichannel controller with maximum load of 550W per channel it can operate a combination of ceiling fan and light fixtures.



Key Features

- On power up last scene recall.
- Delay turn on.
- Over esd, spike protection
- Over voltage and under voltage protection (330>73 v)
- Over current ptc protection
- Capacitor base hum free fan speed control restarting facility against high electro-static discharge (esd) and electrical over stress (eos).



IWS-2

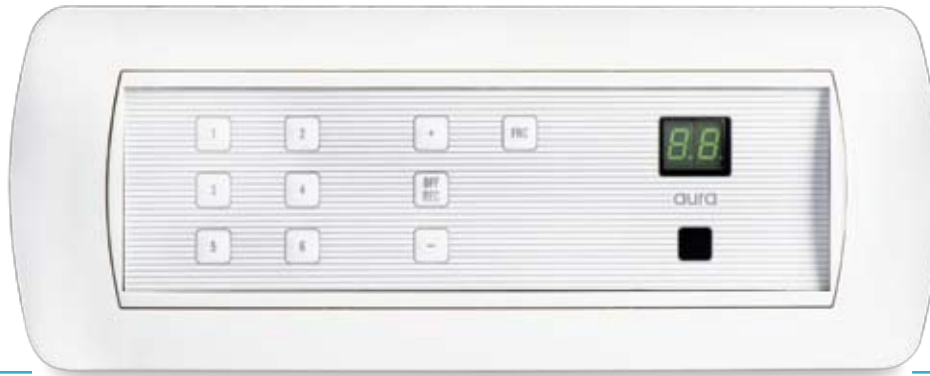


IWS-3



IWS-4

Digital Dimming



aura IWD

aura IWD is a multi channel leading edge digital dimmer / energy management controller with a maximum load of 300W per channel, subject to a maximum overall system load of 1800W. With upto a 60 Scene integral Memory and a fully networkable RS485 interface, this unit can meet even the most varied and flexible of lighting scene / mood needs in any application.



Features

- 60 scenes with non-volatile data memory
- Soft turn on
- On Power up Last Scene Recall
- 5 Speed fan control *
- Over voltage spike protection
- Over current / short circuit protection
- User programmable Fade times of upto 0 - 99 secs
- Seamless AV Integration with touch screens to enable full light and vision control

* available in aura IWD-2 & IWD-4



IWD-2



IWD-3



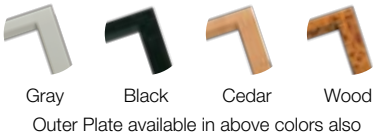
IWD-4

INVENTORS
OF SWITCHES

Crabtree

Digital Dimming

aura-pro



In keeping with Crabtree's design philosophy of simple, safe and elegant solutions for everyday living, our newest offering, AURA-PRO is a state-of-the-art Leading Edge Digital Architectural Dimming System for Homes, Offices, Bars, Restaurants, Multiplexes, Shops and Landscapes.

These digital dimmers empower you with proven and tested technology to bring all the artificial light that surrounds you, under your control with dimming and switching solutions, that make your life more productive, more comfortable, more secure and vastly energy efficient.

Dimming	Life Enhancement	Electricity Saving
10%	2 times	10%
25%	4 times	20%
50%	20 times	40%
75%	> 20 times	60%



Digital Dimming



aura-pro
accessories

aura accessories to further strengthen the robust feature of aura, providing remote controlled options from PC / Laptop, integration with third party devices and even a GSM mobile phone.

Integrated on AuraNet RS 485 communication network, these accessories give various control options to its users.



aura-i-sense
PIR Sensor



SCI



PCI



GSM-1

Crabtree

Bath Fittings

Premium
BATH FITTINGS



Crabtree introduces the new CLOVA, Contemporary in design and conception. Its clear contours fits well in all bathrooms & enhances the decor.



Vencia



Westcoast



Spring



Fauna



Elena

Bath Fittings



Premium
BATH FITTINGS

A true architectural marvel. A solution that fits every sort of bathroom, adding a touch of unmistakable originality. Available in Chrome finish only.



Maestro

Florence Beauty

Flotilla

Imperia

Vittore

 **Crabtree**

Introducing New Packaging



HAVELLS