



LOW VOLTAGE STANDARD PRODUCTS PRICE LIST

Effective : 01st December 2021



BHARTIA

BCH

BCH
ELECTRIC
LIMITED



Modern facilities at Faridabad & Rudrapur

Our Strengths

- ◆ State-of-the-art product development and R&D
- ◆ Modern manufacturing facilities
- ◆ Tool room with latest facilities
- ◆ Serving customers for five decades
- ◆ Presence in ~50 locations
- ◆ 650 channel partners
- ◆ ISO 14001:2015 and ISO 9001:2015 certified company

Core Values

- ◆ Integrity
- ◆ Nurturing People
- ◆ Commitment to Customers
- ◆ Striving for Excellence
- ◆ Long Term Thinking

Quality Policy

We as a member of BCH Electric Limited manufacturer of Low Voltage Switchgear & Controlgear products, are fully committed to provide Quality products and service in compliance with applicable Statutory and Regulatory requirements, to meet or exceed the customer need and expectations through -

- ◆ Continual improvement
- ◆ Involvement of employees
- ◆ Setting Quality objectives
- ◆ Training and development of employees

Health & Safety Policy

We as a member of BCH Electric Limited manufacturer of Low Voltage Switchgear & Controlgear products, are fully committed to conduct Business in compliance to applicable Health & Safety legislation and regulation.

We shall continually improve through -

- ◆ Provide Safe & Healthy working conditions for the prevention of work related injury and ill health.
- ◆ Develop & maintain the Health & Safety objectives & targets and conduct health & safety programs for achieving the objectives and target.
- ◆ The prevention of accidents through the identification, assessment and elimination of workplace hazards and the promotion of health & safety awareness among its employees and contractors.
- ◆ Encourage employee's participation and consultation in matters affecting the health, safety and well being of our people and seek suggestions from our employees of ways in which health, safety & well being can be furthered.

The Health & safety policy is publicly available on request.

Environmental Policy

We as a member of BCH Electric Limited manufacturer of Low Voltage Switchgear & Controlgear products, are fully committed to conduct Business in compliance to applicable Environmental legislation and regulation.

We shall continually improve through -

- ◆ Provide a framework for setting and reviewing environmental objectives and targets.
- ◆ Regularly review the impact of our activities on environment and strive to reduce the pollution/waste.
- ◆ Involve employees in our environmental program and provide necessary training to enable them to discharge their responsibilities towards environment management.
- ◆ Sustain the program of continual improvement in environment in environmental performance incorporating suitable metrics and monitoring.

The Environment policy is publicly available on request.



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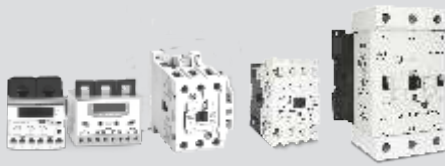
Low Voltage Standard Products



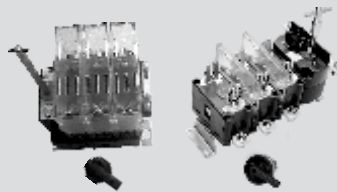
Air Circuit Breakers



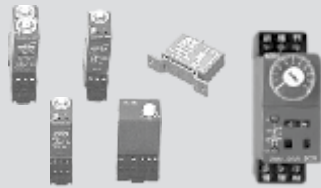
Moulded Case Circuit Breakers



Controlgear



Switch Disconnecter Fuse Units



Electronic Timers



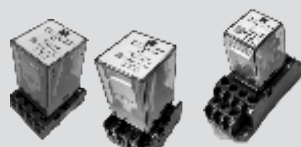
Final Distribution Products



Power Factor Controlled Products



Plug & Sockets



Plug in Relays

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Note: Except for new products Ultra Power ACB, XA / XB / XG range of MCCBs, prices of all other products given in this price list are same as given in comprehensive price list dated 05th July 2021.

For other following products of BCH, please refer latest comprehensive price list effective from 05th July, 2021.




- Motor Starter & Submersible Pump Starters
- Limit Switches
- DC Contactors
- MCCBs - Tembreak 2
- Solid State Relays
- Foot Switches
- Push Buttons, Indicating Lights, LEDs
- AC Solenoids & Brakes
- DC Brakes
- Enclosures Systems
- Plug & Socket Boxes
- Pneumatic Timers
- MCB Distribution Boxes
- Wires & Cables
- Motors
- Automation Products
- Custom Built Products
- Punch Grid Resistor - Standard



BCH
ELECTRIC
LIMITED

COMPLETE RANGE OF LOW VOLTAGE STANDARD PRODUCTS



ULTRA 
POWER
Air Circuit Breakers

MCCB X - RANGE



Air Circuit Breakers.....



Range of Air Circuit Breakers New

- Complete range conforms to IS/IEC 60947-2
- Current rating from 800A to 5000A in 3 frame sizes
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed/Draw-out version
- Common Height & Depth across the range
- High short time fault withstand capacity, $I_{cu} = I_{cs} = I_{cw}$ for 1 sec for total selectivity
- High mechanical and electrical operating life
- Neutral pole is 100% rated
- In-built Electrical & Mechanical Anti-Pumping
- Modular & snap-fit accessories
- Ease of on-site conversion from Fixed to Draw-out version
- Pollution Degree 4 suitability
- Best in Class Overlap with Bus bars
- Break Time of 25msec
- RoHS Compliant



BU-BTX1.0 BU-BTX1G BU-BTX1Gi BU-BTX1.5G BU-BTX1.5Gi



BU-BTX3.5/3.5H BU-BTX4.5

BTX Release for Protection & Control Unit:

- Available in versions - BTX1.0/1G/1Gi/1.5G/1.5Gi, BTX3.5/3.5H & BTX4.5
- Unique O-LED display for metering
- Touch screen technology in BU-BTX4.5
- Unique withdrawable Communication & Power metering modules
- Dual protection curve settings & Password protection
- Soft-rating plug for precise protection at lower load currents
- Provision for on-load self-diagnosis of Releases & modules
- Power & Harmonics measurement
- Temperature rise monitoring & protection
- Easy to integrate with HMI & PLC
- Add-on modules for advance protections
- Protection Releases conform to EMI/EMC standard

Breaking Capacities:

$I_{cu} = I_{cs} = I_{cw}$

Rated current	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A
N : 50kA									
S : 65kA									
H : 80kA									
V : 100kA									
	BU1-08	BU1-10	BU1-12	BU1-16	BU1-20	BU2-25	BU2-32	BU2-40	BU3-50
	Frame-1					Frame-2			Frame-3

Air Circuit Breakers.....



ACB ordering information:

BU 1 08 N X D 1 2 9 0 0	BU1 800N 3P ED 1.5G BotV
--------------------------------	---------------------------------

Selection for Termination (For Drawout ACBs Only)	
Standard Termination	0
For Top Horizontal (Long), Bottom Vertical for Fr2 & Fr3	X
For Top & Bottom Horizontal (Long) for Fr3	Y
Note: X is applicable for 4000A (Fr2 & Fr3) and 5000A (Fr3). Y is applicable for 4000A (Fr3) & 5000A (Fr3) X & Y recommended for Buscoupler only.	

Temperature Rise Monitoring ⁽³⁾	
Not Required	0
Required	1

Selection for P&C Units	
B/C (w/o protection)	0
BU - BTX1.0	7
BU - BTX1G	8
BU - BTX1Gi	B
BU - BTX1.5G	9
BU - BTX1.5Gi	C
BU - BTX3.5	3
BU - BTX4.5	5
BU - BTX3.5H	6

Selection for control voltage ⁽²⁾	
For Manually Operated	0
240V AC ECD & CR & 240V AC SR	1
240V AC ECD & CR & 24V DC SR	2

Version	
Draw-out	D
Fixed	F

Selection for No. of Poles	
3 Pole	X
4 Pole 100% N	F

Selection for Breaking Capacity (Icu=Ics) ⁽¹⁾	
50kA (Fr-I upto 2000A & Fr-2 upto 3200A)	N
65kA (Fr-I & Fr-II)	S
80kA (Fr-II & Fr-III)	H
100kA (Fr-III)	V

Type	
Manually Operated	1
Electrically Operated	2

Current Ratings	
400A	04
630A	06
800A	08
1000A	10
1250A	12
1600A	16
2000A	20
2500A ⁽⁴⁾	25
3200A	32
4000A	40
5000A	50

Frame Size	
Frame - I	1
Frame - II	2
Frame - III	3

Please Note : (1) For Icu values please refer product catalogue
 (2) Other options of control voltage are available as accessory
 (3) Temperature protection is available in BU-BTX3.5/3.5H/4.5
 (4) For Fr-1, 2500A selection, please contact the nearest branch



ACBs are offered with following standard features:

Draw-out Version:	Ultra power ACBs with BU-BTX release will have inbuilt Current Metering (BTX 1.5G/1.5Gi/3.5/3.5H/4.5), Common Fault Indication microswitch, 4NO+4NC Aux. contacts, Smart-racking, Shutter, Safety shutter assembly, Racking handle, Door sealing frame, Pad-locking arrangement for ON/OFF button, Rating Error Preventer, Arc shield. A) For ratings upto 1600A, one side vertical terminal adaptors (Bottom) for Frames 1. B) For ratings 2000A & above, both side vertical terminal adaptors (Top & Bottom) for Frames 1, 2 & 3. C) For rating 4000A and above operation counter inbuilt for Frames 2 & 3 both.
Fixed Version:	Ultra power ACBs with BU-BTX release will have inbuilt- Current Metering (1.5G/1.5Gi/3.5/3.5H/4.5), Common Fault Indication microswitch, 4NO+4NC Aux. contacts, Door sealing frame & Pad-locking arrangement for ON/OFF push but A) For ratings upto 1600A, one side vertical terminal adaptors (Bottom) for Frame 1, 2 & 3. B) For ratings 2000A & above, both side vertical terminal adaptors (Top & Bottom) for Frames 1, 2 & 3. C) For rating 4000A and above operation counter inbuilt for Frames 2 & 3 both. Electrically operated ACB includes ECD (240V AC), CR (240V AC) & SR (240V AC OR 24V DC).

Air Circuit Breakers.....



ULTRA POWER ACBs with BU-BTX1G (LSING - BCD Switches) - 3 Pole
Air Circuit Breakers



HSN Code : 8536

Current Rating	Version	3 Pole Manual Draw-out ACB with BU-BTX1G									
		N (50kA)		S (65kA)		H (80kA)		V (100kA)			
		Cat. No.	M.R.P. [₹]	Cat. No.	M.R.P. [₹]	Cat. No.	M.R.P. [₹]	Cat. No.	M.R.P. [₹]		
800A	MDO	BU108NXD01800	*	BU108SXD01800	*	-	-	-	-		
1000A		BU110NXD01800		BU110SXD01800							
1250A		BU112NXD01800		BU112SXD01800							
1600A		BU116NXD01800		BU116SXD01800							
2000A		BU120NXD01800		BU120SXD01800							
2500A		BU225NXD01800		BU225SXD01800							
3200A		-		BU232SXD01800						BU232HXD01800	-
4000A		-		-						BU240HXD01800	*
5000A		-		-						-	-

HSN Code : 8536

Current Rating	Version	3 Pole Manual Fixed ACB with BU-BTX1G			
		N (50kA)		S (65kA)	
		Cat. No.	M.R.P. [₹]	Cat. No.	M.R.P. [₹]
800A	MF	BU108NXF01800	*	-	-
1000A		BU110NXF01800		BU110SXF01800	*
1250A		BU112NXF01800		BU112SXF01800	
1600A		BU116NXF01800		BU116SXF01800	
2000A		BU120NXF01800		BU120SXF01800	
2500A		BU225NXF01800		BU225SXF01800	
3200A		BU232NXF01800		BU232SXF01800	

M.R.P. changes for product customization	M.R.P. [₹]
MDO to EDO or MF to EF conversion (Includes ECD 240V AC, CR 240V AC & SR 240V AC or 24V DC)	*
Buscoupler (without protection release)	
BU-BTX1.0 (LSI - BCD Switches)	
BU-BTX1Gi (LSING + Inbuilt ZSI - BCD Switches)	
BU-BTX1.5G (LSING + Current Metering - BCD Switches)	
BU-BTX1.5Gi (LSING + Current Metering + Inbuilt ZSI - BCD Switches)	
BU-BTX3.5 (LSING + Current Metering) + can be upgraded for Power Metering & Communication	
BU-BTX3.5H (LSING + Power Metering + Harmonic Metering)	
BU-BTX4.5 (LSING + Power Metering + Harmonic Metering + Communication with Touch Screen navigation + BU-PS Module)	
BU-PS (Auxiliary power supply module for display in No-load or OFF condition)	
COM Module (MODBUS) for communication	
PM Module for power metering	

* Available on request

Air Circuit Breakers.....



ULTRA POWER ACBs with BU-BTX1G (LSING - BCD Switches) - 4 Pole
Air Circuit Breakers



HSN Code : 8536

Current Rating	Version	4 Pole Manual Draw-out ACB with BU-BTX1G								
		N (50kA)		S (65kA)		H (80kA)		V (100kA)		
		Cat. No.	M.R.P. [₹]	Cat. No.	M.R.P. [₹]	Cat. No.	M.R.P. [₹]	Cat. No.	M.R.P. [₹]	
800A	MDO	BU108NFD01800	*	-	-	-	-	-	-	
1000A		BU110NFD01800		BU110SFD01800						
1250A		BU112NFD01800		BU112SFD01800						
1600A		BU116NFD01800		BU116SFD01800						
2000A		BU120NFD01800		BU120SFD01800						
2500A		BU225NFD01800		BU225SFD01800						
3200A		BU232NFD01800		BU232SFD01800						
4000A		-		-	BU232HFD01800					*
5000A		-		-	BU240HFD01800					*
							BU350VFD01800	*		

HSN Code : 8536

Current Rating	Version	4 Pole Manual Fixed ACB with BU-BTX1G			
		N (50kA)		S (65kA)	
		Cat. No.	M.R.P. [₹]	Cat. No.	M.R.P. [₹]
800A	MF	BU108NFF01800	*	-	-
1000A		BU110NFF01800		BU110SFF01800	
1250A		BU112NFF01800		BU112SFF01800	
1600A		BU116NFF01800		BU116SFF01800	
2000A		BU120NFF01800		BU120SFF01800	
2500A		BU225NFF01800		BU225SFF01800	
3200A		BU232NFF01800		BU232SFF01800	

Accessories of Air Circuit Breakers



Draw-out ACBs Terminal Adaptors

HSN Code : 8538

Description	Cat. No.	M.R.P. [₹]
Terminal Adaptor for Draw-out ULTRA ACBs		
Frame-1 400-2000A N/S/H (Vertical / Horizontal)	BLCA609630000	*
Frame-2 400-3200A N/S/H (Vertical / Horizontal)	BLCA609640000	



Operation Counter



Door Interlock

HSN Code : 8538

Description	Cat. No.	M.R.P. [₹]
Other Accessories		
Operation Counter	BLOC909830000	*
Door Interlock	BLDI909780000	
Electrical Position Indication (EPI)	BLEPI958260000	
Microswitches for Indication		
Microswitch for Common Fault Indication (CFI)	BLCM909490000	*
Microswitch for Ready To Close Indication (RTC)	BLRCM909530000	
Microswitch for Shunt Release	BLSM909510000	
Microswitch for Undervoltage Release	BLUM909470000	
Microswitch for Spring Charging Indication	BLMSC426720000	

* Available on request

Air Circuit Breakers.....



ULTRA POWER Accessories of Air Circuit Breakers



HSN Code : 8538

Description	Cat. No.	M.R.P. [₹]
Mechanical Interlock using Key & Lock		
R - Lock Type - 1	BLRL1006590000	*
R - Lock Type - 2	BLRL2006600000	
R - Lock Type - 3	BLRL3006610000	
R - Lock Type - 12	BLRL12006620000	
R - Lock Type - 23	BLRL23006630000	
Locking arrangement for OFF button with R - Lock (on breaker)	BLRL908150000	
Locking arrangement for ISO position with R - Lock (on Cradle)	BLCLR908650000	
Locking arrangement for ANY position with R - Lock (on Cradle)	BLCLR909270000	
C - Lock Type - S	BLCLS006640000	
C - Lock Type - T	BLCLT006650000	
C - Lock Type - ST	BLCLST006660000	
C - Lock Type - SS	BLCLSS006670000	
C - Lock Type - TT	BLCLTT006680000	
Locking arrangement for OFF button with C - Lock (on breaker)	BLCL908140000	
Locking arrangement for ISO position for C - Lock (on Cradle)	BLCLC909820000	
Locking arrangement for ANY position with C - Lock (on Cradle)	BLCLC909810000	

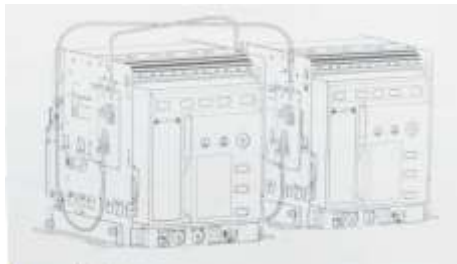
HSN Code : 8538

Description	Cat. No.	M.R.P. [₹]	
Electrical Charging Device (ECD)			
240V AC / 250V DC	BLECD903590000	*	
415V AC / 400V DC	BLECD903610000		
Closing Release (CR)			
220 - 240V AC / 220 - 250V DC	BLCR90817B000		
415V AC	BLCR90817D000		
Shunt Release (SR)			
24-30V DC	BLSH908160400		
110V AC / 110V DC	BLSH908160A00		
220 - 240V AC / 220 - 250V DC	BLSH908160B00		
415V AC	BLSH908160D00		
Under Voltage Release (UVR) with time delay (0-1-3-5 sec)			
240V AC / 220V DC	BLUV90818B000		
415V AC	BLUV90818D000		

HSN Code : 8538

Description	Cat. No.	M.R.P. [₹]
External Neutral CT for BU-BTX Releases		
Frame-1, 800A	BLEN007170000	*
Frame-1, 1000-1600A	BLEN007180000	
Frame-1 2000A	BLEN007190000	
Frame-2 & 3 2500-4000A	BLNCT007200000	

Note : For mechanical interlock using Key & Lock, please order combination of lock & locking arrangement



Mechanical Interlock using Bowden Cable

HSN Code : 8538

Description	Cat. No.	M.R.P. [₹]
Mechanical Interlock using Bowden Cable (3 meters length)		
Between 2 Incomers	BLBC906590000	*
Between 2 Incomers & 1 Buscoupler	BLBC906620000	

Note : Common from 800A to 5000A & can be interlocked between fixed / drawout / mixed version



HSN Code : 8538

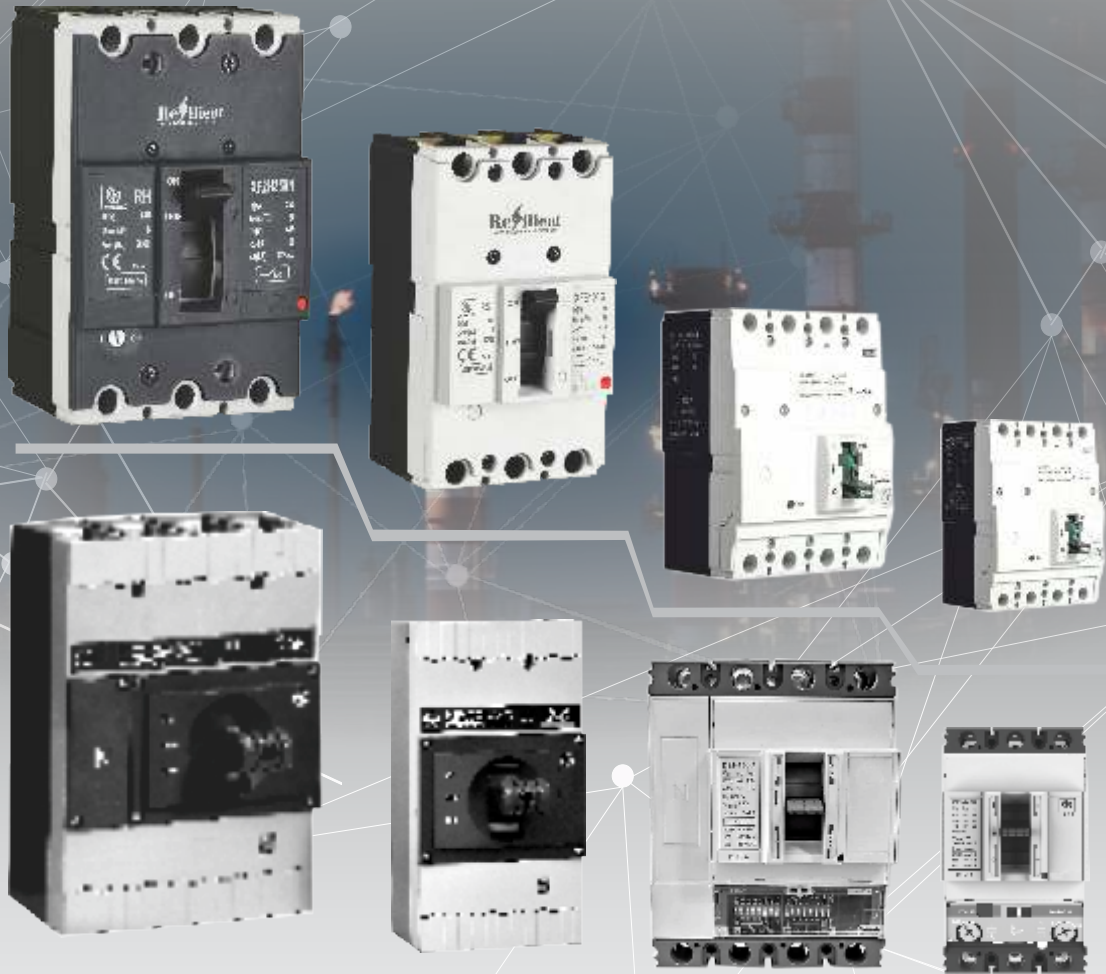
Description	Cat. No.	M.R.P. [₹]
BTX Releases		
BU-BTX1G	BLBTX919710000	*
BU-BTX1Gi	BLBTX905620000	
BU-BTX1.5G	BLBTX919650000	
BU-BTX1.5Gi	BLBTX905520000	
BU-BTX3.5	BLBTX901130000	
BU-BTX3.5H	BLBTX919750000	
Simulation Kit	BLSK907240000	

* Available on request



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MOULDED CASE CIRCUIT BREAKERS



MCCB X - RANGE
3 Pole & 4 Pole

MCCB



XF Frame 1 / XA1 With Thermal - Magnetic Release:

RATING (A) I_{cu} (kA)	16	20	25	32	40	50	63	80	100	125
10/ 15/ 25/ 30/ 36/ 50	XF Frame 1 - 3 Pole									
18	XA1 - 4 POLE									

XF Frame 1 - 3 Pole

- Conforms to IS/IEC 60947-2
- Range: 16A - 100A
- High Performance Compact Size
- Suitability for Isolation
- Rated at 50 C °
- Line Load Interchangeability
- Double Insulation
- Thermal Magnetic Trip unit
 - Overload Setting: 0.7-1.0 I_n
 - Short Circuit Setting: Fixed



XF Frame 1 :
I_{cu}/I_{cs} = 10/7.5, 15/15, 25/25, 30/15,
36/18, 50/25, 50/50 kA

XFE series with RAL-7035 (Light Grey) front Facia
Other series with RAL-7016 (Dark Grey) front Facia

HSN Code : 8536

Type	Release Range (A)	Breaking Capacity I _{cu} /I _{cs} at 415V AC	3 Pole		Std. Pkg.
			Cat. No.	MRP [₹]	
XF Frame 1	16, 20, 25, 32, 40, 50, 63	10/7.5kA (Fixed)	XFE***G	1990	1
	80, 100 (w/o spreader terminal)		XFE***G-WT	2090	1
	80, 100		XFE***G#	2200	1
	16, 20, 25, 32, 40, 50, 63	15/15kA (Fixed)	XFN***P	4600	1
	80, 100		XFN***P#	4710	1
	16, 20, 25, 32, 40, 50, 63	25/25kA	XFS***PV	7080	1
	80, 100		XFS***PV#	7200	1
	16, 20, 25, 32, 40, 50, 63	30/15kA	XFH***NV	5280	1
	80, 100		XFH***NV#	5400	1
	16, 20, 25, 32, 40, 50, 63	36/18kA	XFL***NV	6830	1
	80, 100		XFL***NV#	6950	1
	16, 20, 25, 32, 40, 50, 63	50/25kA	XFV***NV	11540	1
	80, 100		XFV***NV#	11660	1
	32, 40, 50, 63	50/50kA	XFV***PV	12100	1
	80, 100		XFV***PV#	12250	1

Note: Phase barriers are supplied along with all MCCBs.

#Spreader terminals available as standard. (For MCCB without spreader, please contact our nearest branch)

Code - Current Rating XF Frame 1 - 3 Pole

Rating	16A	20A	25A	32A	40A	50A	63A	80A	100A
*Code	016	020	025	032	040	050	063	080	100

XA1 Frame - 4 Pole

- Conforms to IS/IEC 60947-2
- Range: 25A to 125A, 4P
- I_{cs}=100% of I_{cu}
- High Electrical & Mechanical life
- Thermal Magnetic Release
- Compact size
- Adjustable overload setting : 0.8-1.0 x I_n
- Wide range of snap fit internal & external accessories



XA1 Frame :
I_{cu}/I_{cs} = 18/18 kA

HSN Code : 8536

Type	Release Range (A)	Breaking Capacity I _{cu} /I _{cs} at 415V AC	4 Pole	MRP [₹]	Std. Pkg.
			Cat. No.		
XA1	32	18/18kA	XA1R032PV4	7970	1
	40		XA1R040PV4	7970	1
	63		XA1R063PV4	7740	1
	100		XA1R100PV4	7740	1
	125		XA1R125PV4	9090	1

Note: - Phase barriers are supplied along with all MCCBs.

- Spreader terminals available as accessories.

MCCB.....



Accessories - XF Frame 1 / XA1 MCCBs:



Shunt Release



UV Release



ATAC



Extended Rotary Handle



MCCB Enclosure

Accessories for XF Frame 1 - 3 Pole HSN Code : 8538

Description	Internal		
	Cat. No.	MRP [₹]	Std. Pkg.
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O	XFALAX11	1540	1
2 C/O	XFAX2	1540	1
Shunt Release			
220V - 415V F1 (XF range)	XFSHT220V	1410	1
Under Voltage Release			
240V F1	XFUV240VA	1870	1
415V F1	XFUV415VA	2160	1

HSN Code : 8538

Description	External		
	Cat. No.	MRP [₹]	Std. Pkg.
Spreader Terminals	ACMF1TP100	390	Set of 6
Extended Rotary Handle	F1ROHE	1900	1
Din Rail	F1DIN	220	1
Phase Barriers	F1PB	90	Set of 4
MCCB Enclosure	F1EU3P	1010	1



Auxiliary Contact



ATAC



Shunt Release



UV Release



Spreader Terminals



Direct ROM



Extended ROM

Accessories for XA1 MCCBs - 4 Pole HSN Code : 8538

Description	Internal		
	Cat. No.	MRP [₹]	Std. Pkg.
Auxiliary Contact			
1 C/O - Right	XB01A12AUX1	900	1
2 C/O - Right	XB01A12AUX2	1600	1
Trip Alarm Contact			
1 C/O - Right	XB01A12ALR1	900	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	XB01A12ALAX1	1540	1
Shunt Release			
24V DC - Left	XB01A12SHT24V	1570	1
240/415V AC - Left	XB01A12SHTUNI	1710	1
Under Voltage Release			
240V AC - Left	XB01A12UV240V	2730	1

HSN Code : 8538

Description	External			
	Cat. No.	MRP [₹]	Std. Pkg.	
Spreader Terminals				
XA1 - 4 Pole	XB0A1100FPST	520	Set of 8	
XA1 - 4 Pole	XB0A1125FPST	620	Set of 8	
Rotary Handle				
XA1	Direct ROM	XB0A1ROHD	1140	1
	Extended ROM	XB0A1ROHE	1490	1

MCCB



XF2/XA2 With Thermal - Magnetic Release:

RATING (A) I _{cu} (kA)	125	160	200	250
25	XF2 - 3 Pole			
25	XA2 - 4 Pole			
36	XF2 - 3 Pole			
36	XA2 - 4 Pole			
50	XF2 - 3 Pole			

HSN Code : 8536

XF2 Frame - 3 Pole

- Conforms to IS/IEC 60947-2
- Range: 125A - 250A
- High Performance Compact Size
- Suitability for Isolation
- Rated at 50 C °
- Line Load Interchangeability
- Double Insulation
- Thermal Magnetic Trip unit
 - Overload Setting: 0.8-1.0 In
 - Short Circuit Setting: Fixed



XF2 Frame :
I_{cu}/I_{cs} = 25/25, 36/18, 36/27, 36/36, 50/25, 50/50 kA

Type	Release Range (A)	Breaking Capacity I _{cu} /I _{cs} at 415V AC	3 Pole		Std. Pkg.
			Cat. No.	MRP [₹]	
XF2 range	125	25/25kA	XF2E125PV	10500	1
	160		XF2E160PV	13670	1
	200		XF2E200PV#	17750	1
	250		XF2E250PV#	20810	1
	125	36/18kA	XF2N125NV	8360	1
	160		XF2N160NV	9720	1
	200		XF2N200NV#	12830	1
	250		XF2N250NV#	14720	1
	125	36/27kA	XF2N125GV	11360	1
	160		XF2N160GV	15190	1
	200		XF2N200GV#	19900	1
	250		XF2N250GV#	21900	1
	125	36/36kA	XF2N125PV	12080	1
	160		XF2N160PV	16100	1
	200		XF2N200PV#	20310	1
	250		XF2N250PV#	22460	1
	125	50/25kA	XF2H125NV	13190	1
	160		XF2H160NV	17900	1
	200		XF2H200NV#	21540	1
	250		XF2H250NV#	23310	1
125	50/50kA	XF2H125PV	17270	1	
160		XF2H160PV	19430	1	
200		XF2H200PV#	23030	1	
250		XF2H250PV#	25030	1	

Note: Phase barriers are supplied along with all MCCBs.

#Spreader terminals available as standard.

(For MCCB without spreader, please contact our nearest branch)

XA2 Frame - 4 Pole

- Conforms to IS/IEC 60947-2
- Range: 160A to 250A, 4P
- Compact size
- Wide Range of snap fit Internal and External Accessories
- Adjustable Overload Setting: 0.8 - 1.0 x In



XA2 Frame :
I_{cu}/I_{cs} = 25/12.5, 36/18 kA

HSN Code : 8536

Type	Release Range (A)	Breaking Capacity I _{cu} /I _{cs} at 415V AC	4 Pole		Std. Pkg.
			Cat. No.	MRP [₹]	
XA2	160	25/12.5kA	XA2E160NV4	13530	1
	200		XA2E200NV4	15990	1
	250		XA2E250NV4	18120	1
	160	36/18kA	XA2N160NV4	14210	1
	200		XA2N200NV4	19520	1
	250		XA2N250NV4	22370	1

Note: - Phase barriers are supplied along with all MCCBs.

- Spreader terminals available as accessories.



Accessories - XF2/XA2 Frame MCCBs:



Shunt Release



UV Release



ATAC



Extended Rotary Handle



MCCB Enclosure

Accessories for XF2 range - 3 Pole HSN Code : 8538

Description	Internal		
	Cat. No.	MRP [₹]	Std. Pkg.
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O	XFALAX11	1540	1
2 C/O	XFAX2	1540	1
Shunt Release			
220V - 415V F2 (XF2 range)	XF2SHT220V	1410	1
Under Voltage Release			
240V F2	XF2UV240VA	1890	1
415V F2	XF2UV415VA	2160	1

HSN Code : 8538

Description	External		
	Cat. No.	MRP [₹]	Std. Pkg.
Spreader Terminals	ACMF2TP250	1410	Set of 6
Extended Rotary Handle	F2ROHE	1960	1
Phase Barriers	F2PB	240	Set of 4
MCCB Enclosure	F2EU3P	1980	1



Auxiliary Contact



ATAC



Shunt Release



UV Release



Spreader Terminals



Direct ROM



Extended ROM

Accessories for XA2 MCCBs - 4 Pole HSN Code : 8538

Description	Internal		
	Cat. No.	MRP [₹]	Std. Pkg.
Auxiliary Contact			
1 C/O - Right	XB01A12AUX1	900	1
2 C/O - Right	XB01A12AUX2	1600	1
Trip Alarm Contact			
1 C/O - Right	XB01A12ALR1	900	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	XB01A12ALAX1	1540	1
Shunt Release			
24V DC - Left	XB01A12SHT24V	1570	1
240/415V AC - Left	XB01A12SHTUNI	1710	1
Under Voltage Release			
240V AC - Left	XB01A12UV240V	2730	1

HSN Code : 8538

Description	External			
	Cat. No.	MRP [₹]	Std. Pkg.	
Spreader Terminals				
XA2 - 4 Pole	XB12A2250FPST	1910	Set of 8	
Rotary Handle				
XA2	Direct ROM	XB1A2ROHD	1180	1
	Extended ROM	XB1A2ROHE	1660	1

XF3/XA3 With Thermal - Magnetic Release:

RATING (A) Icu (kA)	320	400	500	630
36	XF3 - 3 Pole			
50	XF3 - 3 Pole			
50	XA3 - 4 POLE			

HSN Code : 8536

XF3 Frame - 3 Pole

- Conforms to IS/IEC 60947-2
- Range: 320A - 630A
- High Performance Compact Size
- Suitability for Isolation
- Rated at 50 C °
- Line Load Interchangeability
- Double Insulation
- Thermal Magnetic Trip unit



XF3 Frame :
I_{cu}/I_{cs} = 36/36, 50/50 kA

Type	Release Range (A)	Breaking Capacity Icu/Ics at 415V AC	3 Pole		Std. Pkg.
			Cat. No.	MRP [₹]	
XF3 range	320	36/36kA	XF3N320PV	27530	1
	400		XF3N400PV	28890	1
	500		XF3N500PV	33150	1
	630		XF3N630PV	36180	1
	320	50/50kA	XF3H320PV	29810	1
	400		XF3H400PV	31450	1
	500		XF3H500PV	36120	1
	630		XF3H630PV	38480	1

Note: Phase barriers are supplied along with all MCCBs.

Spreader terminals available as standard.

(For MCCB without spreader, please contact our nearest branch)

For MCCBs with 'Magnetic only' protection, prices available On Request.

XA3 Frame - 4 Pole

- Conforms to IS/IEC 60947-2
- Range: 320A to 400A, 4P
- Compact size
- Wide Range of snap fit Internal and External Accessories
- Adjustable Overload Setting: 0.8 - 1.0 x I_n



XA3 Frame :
I_{cu}/I_{cs} = 50/25 kA

HSN Code : 8536

Type	Release Range (A)	Breaking Capacity Icu/Ics at 415V AC	4 Pole		Std. Pkg.
			Cat. No.	MRP [₹]	
XA3 Range	400	50/25kA	XA3H400NV4	30150	1

Note: Phase barriers are supplied along with all MCCBs.

Spreader terminals available as accessories.

Accessories - XF3/XA3 Frame MCCBs:



Shunt Release



UV Release



ATAC



Extended Rotary Handle



Accessories for XF3 range - 3 Pole

HSN Code : 8538

Description	Internal		
	Cat. No.	MRP [₹]	Std. Pkg.
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O	XFALAX11	1540	1
2 C/O	XFAX2	1540	1
Shunt Release			
220V - 415V F3 (XF3 range)	XF3SHT220V	2350	1
Under Voltage Release			
240V F3	XF3UV240VA	2940	1
415V F3	XF3UV415VA	2940	1

HSN Code : 8538

Description	External		
	Cat. No.	MRP [₹]	Std. Pkg.
Extended Rotary Handle	F3ROHE	4100	1
Phase Barriers	F3PB	260	Set of 4



Auxiliary Contact



ATAC



Shunt Release



UV Release



Spreader Terminals



Direct ROM



Extended ROM

Accessories for XA3 MCCBs - 4 Pole

HSN Code : 8538

Description	Internal		
	Cat. No.	MRP [₹]	Std. Pkg.
Auxiliary Contact			
1 C/O	XB234A3AUX1	1000	1
2 C/O	XB234A3AUX2	1890	1
Trip Alarm Contact			
1 C/O - Right	XB234ALR1	1060	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	XB234ALAX1	1900	1
Shunt Release			
110/240/415V AC , 110/220V DC	XB234A3SHTUNI	2460	1
Under Voltage Release			
240V AC - Left	XB23UV240V	3360	1

HSN Code : 8538

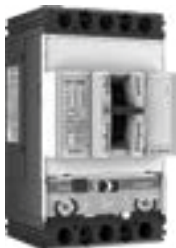
Description	External		
	Cat. No.	MRP [₹]	Std. Pkg.
Spreader Terminals			
4 Pole	XB3400FPST	3930	Set of 8
Rotary Handle			
Direct ROM	XB3A3ROHD	1830	1
Extended ROM	XB3A3ROHE	3150	1

XB0/XB1 Range With Thermal - Magnetic Release:

RATING (A) I _{cu} =I _{cs} (kA)	100	125	160	200	250	320	400	630
25	XB0 - 4 Pole							
25		XB1 - 4 Pole						
36	XB0 - 4 Pole			XB2 - 4 Pole		XB3S - 4 Pole		
36		XB1 - 4 Pole				XB3 - 4 Pole		XB3 - 4 Pole
50		XB1 - 4 Pole						XB3 - 4 Pole
50				XB2 - 4 Pole		XB3 - 4 Pole		

XB0/XB1 Range With Thermal - Magnetic Release - 4 Pole

- Conforms to IS/IEC 60947-2
- 84A to 160A, 4P
- 36kA & 50kA breaking capacities
- I_{cs} = 100% of I_{cu}
- Adjustable overload settings: 0.67 - 1.0 x I_n
- Adjustable short-circuit settings: 6 - 12 x I_n
- Transparent sealable release cover
- Compact size
- Wide range of accessories



XB0/XB1 Frame :
I_{cu}/I_{cs} = 36/36, 50/50 kA

XB2/XB3 Range With Thermal - Magnetic Release - 4 Pole

- Conforms to IS/IEC 60947-2
- 80A to 630A, 4P
- 25kA, 36kA, 50kA breaking capacities
- I_{cs} = 100% of I_{cu}*
- Adjustable overload settings: 0.8 - 1.0 x I_n
- Manual, Rotary and Motorised versions available@
- Adjustable short-circuit settings: 6 - 10 x I_n**
- Wide range of accessories



XB2/XB3 Frame :
I_{cu}/I_{cs} = 25/25, 36/18, 36/36, 50/50 kA

XB2/XB3 Range With Thermal - Magnetic Release - 4 Pole

HSN Code : 8536

Type	Release Range (A)	Breaking Capacity I _{cu} /I _{cs}	4 Pole		Std. Pkg.	
			Cat. No.	MRP [₹]		
XB0	100	36/18kA	XB0V100NV4	9770	1	
XB0	125		XB0N125NV4	11340	1	
XB0	100	25/25kA	XB0S100PV4	10160	1	
XB1	125		XB1E125PV4	12680	1	
XB1	160		XB1E160PV4	16360	1	
XB1	200		XB1E200PV4	20990	1	
XB1	250		XB1E250PV4	23900	1	
XG1	125		36/36kA	XG1N125PV4	13630	1
	160	XG1N160PV4		17260	1	
XB2	200	XB2N200PV4		25950	1	
	250	XB2N250PV4		27270	1	
XB3S	320	XB3SN320PV4		32390	1	
	400	XB3SN400PV4		32390	1	
XB3	320	XB3N320PV4		41990	1	
XB3	630	XB3N630PV4		45980	1	
XG1	125	50/50kA		XG1H125PV4	19040	1
	160			XG1H160PV4	21820	1
XB2	200			XB2H200PV4	29790	1
	250			XB2H250PV4	30520	1
XB3	320		XB3H320PV4	35810	1	
	400		XB3H400PV4	35810	1	
XB3	630		XB3H630PV4	50400	1	

General Information

- Use of phase barriers is mandatory. These are supplied along with MCCBs
- It is recommended to use spreader terminals for enhancing termination capacity
- Spreader terminals are available as accessories, unless otherwise specified against cat. nos.

Special Applications

- XB range MCCBs with TM release can be used for DC application (4 Pole)
- XB range MCCBs can be used for Capacitor back-up protection

@ Motorized version available for XB2 AND XB3 Frames (please refer page no.17)

* XB0 : I_{cs} = 50% I_{cu}

** For XB0, XB1, XB3S Short circuit setting : 9 I_n

XG1/XB Range With Microprocessor Release:

RATING (A) I _{cu} =I _{cs} (kA)	40	63	100	160	250	320	400	500	630	800	
36/36	XG1-LSI/LSIG (3 & 4 Pole)										
	XB2-LSI/LSIG (3 & 4 Pole)					XF3 RANGE- LSI (3 Pole)					
				XB3-LSI/LSIG (3 & 4 Pole)							
							XB3-LSI/LSIG (3 & 4 Pole)				
50/50	XG1-LSI/LSIG (3 & 4 Pole)										
	XB2-LSI/LSIG (3 & 4 Pole)							XF3 RANGE-LSIG (3 Pole)			
						XB3-LSI/LSIG (3 & 4 Pole)					
							XB3-LSI/LSIG (3 & 4 Pole)				
									XB4-LSI/LSIG (4 Pole)		

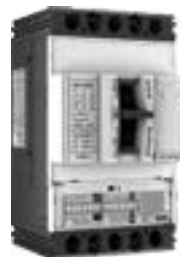
With Microprocessor Release BMR1.0 & GMR1 - LSI (3 & 4 Pole)



XB Frame - BMR1.0 :
I_{cu}/I_{cs} = 36/36, 50/50 kA

XB-BMR1.0 (LSI)

- Conforms to IS/IEC 60947-2
- 250A to 800A, 3P & 4P
- 36kA, 50kA breaking capacities
- Adjustable overload setting from 0.4 to 1.0 x I_n
- I_{cs}=100% I_{cu}
- Adjustable short-circuit setting from 1.5 to 8 x I_r
- Inbuilt instantaneous Protection
- Switchable thermal memory
- Variable trip class
- Front LED Indication
- Manual, Rotary and Motorised versions available@
- Wide range of accessories



XG1 Frame - GMR1 :
I_{cu}/I_{cs} = 36/36, 50/50 kA

XG1-GMR1 (LSI)

- Conforms to IS/IEC 60947-2
- 16A to 160A, 3P & 4P
- 36kA & 50kA breaking capacities
- I_{cs}=100% I_{cu}
- Adjustable overload setting from 0.25 to 1.0 x I_n
- Adjustable short-circuit setting from 1.5 to 12 x I_r
- Instantaneous setting from 1.5 to 12 x I_n
- Switchable thermal memory
- Variable trip class
- Transparent sealable release cover
- Compact size
- Adjustable overload setting from 0.25 to 1.0 x I_n
- Wide range of accessories

HSN Code : 8536

Type	Release Range (A)	Breaking Capacity I _{cu} /I _{cs}	3 Pole		4 Pole		Std. Pkg.
			Cat. No.	MRP [₹]	Cat. No.	MRP [₹]	
XG1	10-40	36/36kA	XG1L040PE3-LSI	15640	XG1L040PE4-LSI	19670	1
	16-63		XG1L063PE3-LSI	15640	XG1L063PE4-LSI	19670	1
	25-100		XG1L100PE3-LSI	15640	XG1L100PE4-LSI	19670	1
	40-160		XG1N160PE3-LSI	19800	XG1N160PE4-LSI	27510	1
XB2	100-250	50/50kA	XB2N250PE3-LSI	27330	XB2N250PE4-LSI	37450	1
XB3	160-400		XB3N400PE3-LSI	34790	XB3N400PE4-LSI	42950	1
XB3	250-630		XB3N630PE3-LSI	39480	XB3N630PE4-LSI	51830	1
XG1	10-40		XG1V040PE3-LSI	18640	XG1V040PE4-LSI	25850	1
	16-63	XG1V063PE3-LSI	18640	XG1V063PE4-LSI	25850	1	
	25-100	XG1V100PE3-LSI	18640	XG1V100PE4-LSI	25850	1	
	40-160	XG1H160PE3-LSI	24390	XG1H160PE4-LSI	31910	1	
XB2	100-250	XB2H250PE3-LSI	31260	XB2H250PE4-LSI	40020	1	
XB3	160-400	XB3H400PE3-LSI	38070	XB3H400PE4-LSI	49100	1	
XB3	250-630	XB3H630PE3-LSI	41410	XB3H630PE4-LSI	54490	1	
XB4	320-800	XB4H800PE3-LSI	61140	XB4H800PE4-LSI	76990	1	

@ Motorized version available for XB2 and XB3 Frames (please refer page no.16)

General Information

- Use of phase barriers is mandatory. These are supplied along with MCCBs
- It is recommended to use spreader terminals for enhancing termination capacity
- Spreader terminals are available as accessories, unless otherwise specified against cat. nos.

XF3 Range With Microprocessor Release - LSIG (3 Pole)



- **Electronic Trip Unit (ETU)-LSIG**
- Overload Setting: 0.4-1.0 In
- Short Circuit Setting: 1.5-10 In
- Earth Fault Setting: 0.2-0.55 In
- Instantaneous Setting: 12 In
- Short Circuit Delay: 50-500 ms
- Earth Fault Delay: 50-500 ms
- Pre Trip Alarm Indication

HSN Code : 8536

Type	Release Range (A)	Breaking Capacity Icu/Ics at 415V AC	3 Pole		Std. Pkg.
			Cat. No.	MRP [₹]	
XF3 range	160 - 400	36/36kA	XF3N400PE-LSIG	45260	1
	250 - 630		XF3N630PE-LSIG	49740	1
	160 - 400	50/50kA	XF3H400PE-LSIG	48400	1
	250 - 630		XF3H630PE-LSIG	53590	1

XF3 Frame - LSIG :
I_{cu}/I_{cs} = 36/36, 50/50 kA

Spreader Link available as standard (for MCCB without spreader, please contact our sales team)

With Microprocessor Release BMR2.0 & GMR3 - LSIG (3 & 4 Pole)

XB-BMR2.0 (LSIG)

- Conforms to IS/IEC 60947-2
- 40A to 800A, 3P & 4P
- 36kA, 50kA breaking capacities
- I_{cs}=100% I_{cu}
- Adjustable overload setting from 0.4 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 8 x I_r
- Inbuilt instantaneous Protection
- Inbuilt ground fault protection from 20%-50% of In
- Adjustable neutral overload protection from 50% to 150% of I_r
- Switchable thermal memory
- Variable trip class
- Front LED Indication
- Panel mounted display for current metering & trip record
- Manual, Rotary and Motorised versions available@
- Wide range of accessories



XB Frame - BMR2.0 :
I_{cu}/I_{cs} = 36/36, 50/50 kA

XG1-GMR3 (LSIG)

- Conforms to IS/IEC 60947-2
- 16A to 160A, 3P & 4P
- 36kA & 50kA breaking capacities
- I_{cs}=100% I_{cu}
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 10 x I_r
- Adjustable Instantaneous setting, 6 In & 12 In
- Inbuilt ground fault protection from 20%-70% of In
- Adjustable neutral overload protection from 50% to 200% of I_r
- Switchable thermal memory
- Provision for release testing
- Individual fault indication LEDs
- Transparent sealable release cover
- Wide range of accessories



XG1 Frame - GMR3 :
I_{cu}/I_{cs} = 36/36, 50/50 kA

With Microprocessor Release BMR2.0 & GMR3 :

HSN Code : 8536

Type	Release Range (A)	Breaking Capacity Icu/Ics	3 Pole		4 Pole		Std. Pkg.	
			Cat. No.	MRP [₹]	Cat. No.	MRP [₹]		
XG1	10-40	36/36kA	XG1L040PE3-LSIG	28700	XG1L040PE4-LSIG	33320	1	
	16-63		XG1L063PE3-LSIG	28700	XG1L063PE4-LSIG	33320	1	
	25-100		XG1L100PE3-LSIG	28700	XG1L100PE4-LSIG	33320	1	
	40-160		XG1N160PE3-LSIG	32880	XG1N160PE4-LSIG	40760	1	
XB2	40-100		-	-	XB2V100PE4-LSIG	36660	1	
	63-160		-	-	XB2N160PE4-LSIG	44840	1	
	100-250		XB2N250PE3-LSIG	40020	XB2N250PE4-LSIG	48760	1	
XB3	160-400		XB3N400PE3-LSIG	47450	XB3N400PE4-LSIG	55470	1	
XB3	250-630		XB3N630PE3-LSIG	51200	XB3N630PE4-LSIG	63480	1	
XG1	10-40		50/50kA	XG1V040PE3-LSIG	31480	XG1V040PE4-LSIG	37560	1
	16-63			XG1V063PE3-LSIG	31480	XG1V063PE4-LSIG	37560	1
	25-100			XG1V100PE3-LSIG	31480	XG1V100PE4-LSIG	37560	1
	40-160	XG1H160PE3-LSIG		37930	XG1H160PE4-LSIG	45210	1	
XB2	40-100	-		-	XB2L100PE4-LSIG	41310	1	
	63-160	-		-	XB2H160PE4-LSIG	49730	1	
	100-250	XB2H250PE3-LSIG		42730	XB2H250PE4-LSIG	51960	1	
XB3	160-400	XB3H400PE3-LSIG		50340	XB3H400PE4-LSIG	60030	1	
XB3	250-630	XB3H630PE3-LSIG		54680	XB3H630PE4-LSIG	69220	1	
XB4	320-800	XB4H800PE3-LSIG		87640	XB4H800PE4-LSIG	105060	1	

@ Motorized version available for XB2 and XB3 Frames (please refer page no.16)

General Information

- Use of phase barriers is mandatory. These are supplied along with MCCBs
- It is recommended to use spreader terminals for enhancing termination capacity
- Spreader terminals are available as accessories, unless otherwise specified against cat. nos.

Accessories - XB/XG1 Range MCCBs:

HSN Code : 8538



Description	Internal		
	Cat. No.	M.R.P	Std. Pkg.
Auxiliary Contact			
XB0, XB1 - 1 C/O - Right	XB01A12AUX1	900	1
XB0, XB1 - 2 C/O - Right	XB01A12AUX2	1600	1
XG1 - 1 C/O	XG1AUX1	900	1
XB2, XB3S, XB3, XB4 - 1 C/O	XB234A3AUX1	1000	1
XB2, XB3S, XB3, XB4 - 2 C/O	XB234A3AUX2	1890	1
Trip Alarm Contact			
XB0, XB1 - 1 C/O - Right	XB01A12ALR1	900	1
XG1 - 1 C/O	XG1AUX1	900	1
XB2, XB3S, XB3, XB4 - 1 C/O - Right	XB234ALR1	1060	1
Auxiliary 1 C/O + TAC 1 C/O			
XB0, XB1 - Right	XB01A12ALAX1	1540	1
XB2, XB3S, XB3, XB4 - Right	XB234ALAX1	1900	1
Shunt Release			
XB0, XB1 - 24V DC - Left	XB01A12SHT24V	1570	1
XB0, XB1 - 240/415V AC - Left	XB01A12SHTUNI	1710	1
XG1 - 240V AC	XG1SHT240V	2400	1
XB2, XB3S, XB3, XB4 - 110/240/415V AC, 110/220V DC	XB234A3SHTUNI	2460	1
Under Voltage Release			
XB0, XB1 - 240V AC - Left	XB01A12UV240V	2730	1
XG1 - 240V AC	XG1UV240V	3020	1
XB2, XB3S, XB3 - 240V AC - Left**	XB23UV240V	3360	1
XB4 - 240V AC - Left**	XB4UV240V	4010	1

** Use these catcode of UV with they look MCCBs only



Spreader terminals



Direct ROM



Extended ROM

HSN Code : 8538

Description	External		
	Cat. No.	M.R.P	Std. Pkg.
Spreader Terminals			
XB0-100 - 3 Pole	XB0A1100TPST	330	Set of 6
XB0-125D - 3 Pole	XB0A1125TPST	430	Set of 6
XG1 - 160 - 3 Pole	XG160TPST	1450	Set of 6
XB1, XB2 - 250 - 3 Pole	XB12A2250TPST	1450	Set of 6
XB3S/XB3-400 - 3 Pole	XB3400TPST	2740	Set of 6
XB3-630 - 3 Pole	XB3630TPST	3170	Set of 6
XB0-100 - 4 Pole	XB0A1100FPST	520	Set of 8
XB0-125D - 4 Pole	XB0A1125FPST	620	Set of 8
XG1 - 160 - 4 Pole	XG160FPST	1910	Set of 8
XB1, XB2 - 250 - 4 Pole	XB12A2250FPST	1910	Set of 8
XB3S/XB3-400 - 4 Pole	XB3400FPST	3930	Set of 8
XB3-630 - 4 Pole	XB3630FPST	4270	Set of 8

Note: Phase barriers are supplied along with MCCBs

HSN Code : 8538

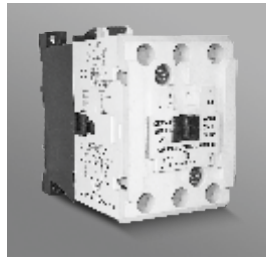
Description	External		
	Cat. No.	M.R.P	Std. Pkg.
Rotary Handle			
XB0 Direct ROM	XB0A1ROHD	1140	1
XB1 Direct ROM	XB1A2ROHD	1180	1
XG1 Direct ROM	XG1ROHD	1220	1
XB2 Direct ROM	XB2ROHD	1220	1
XB3S, XB3 Direct ROM	XB3A3ROHD	1830	1
XB0 Extended ROM	XB0A1ROHE	1490	1
XB1 Extended ROM	XB1A2ROHE	1660	1
XG1 Extended ROM	XG1ROHE	1710	1
XB2 Extended ROM	XB2ROHE	1930	1
XB3S, XB3 Extended ROM	XB3A3ROHE	3150	1
XB4 Extended ROM	XB4ROHE	3820	1
Stored Energy Electrical Operating Mechanism			
XB2 - 240V AC*		26860	
XB3 - 240V AC*		33680	

* Available as customised factory fitted solutions, please contact nearest sales office

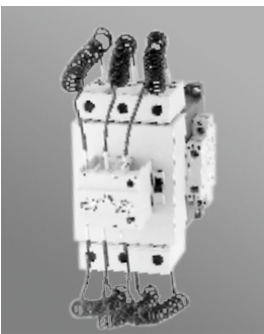
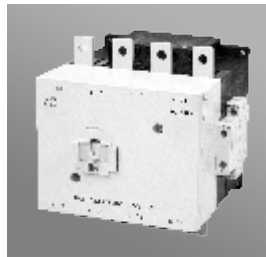
Contactors



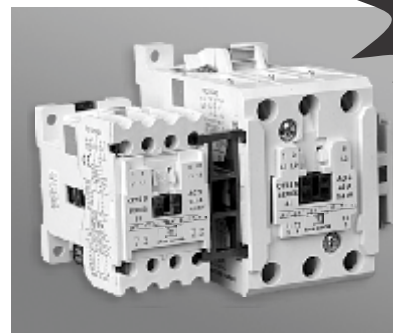
FREEDOM RANGE



- Conforms to IEC 60947-4-1 / IS 13947
- No derating upto -20°C to 60°C
- 3 Pole and 4 Pole versions
- Widest Range from 6A to 1200A in 7 frame sizes
- Snap Open design for easy inspection
- Self Lifting Screws for quick termination
- Superior grade material with high temperature withstand capacity : Ideal for stringent applications
- Most compact design
- Low VA burden coils
- Successfully tested for Type - 2 coordination



- Range : 5 to 60 KVAR
- Enhanced equipment life
- Compact design
- Conforms to IEC 60947-4-1 & IS 13947-4-1 (AC-6b) utilization category



Design Flexibility

Interlocking 2 Different frames using a common Mechanical Interlock (Upto 75A)



BCH Series : 400A to 1200A

- Conforms to IEC60947-4-1 / IS 13947
- Insulation voltage upto 1000V
- Universal Control : Same coil for AC and DC Supply
- Delayed Drop Off feature for networks with transient power problem ensuring continuity of power supply
- Special magnet design for reduced shock and vibration
- Front open design for ease of inspection



Contactors



Freedom Series 3 Pole AC Control

HSN Code : 8536

Size	AC1 Rating	AC3 Rating 415 V			Aux. Contact	Cat. No.	MRP [₹]	Lot Size
		A	HP	KW				
A	20	6	3	2.2	1NO	CE15ANS3 ■ B-N	1130	1
					1NC	CE15ANC3 ■ B-N		
B	20	9.1	5.5	4	1NO	CE15BNS3 ■ B-N	1190	
					1NC	CE15BNC3 ■ B-N		
C	20	12	7.5	5.5	1NO	CE15CNS3 ■ B-N	1360	
					1NC	CE15CNC3 ■ B-N		
D	32	16	10	7.5	1NO	CE15DN3.■.B10-N	1540	
					1NC	CE15DN3.■.B01-N		
	32	18	10	7.5	1NO	CE15D1N3.■.B10-N	1550	
					1NC	CE15D1N3.■.B01-N		
E	40	25	15	11	1NO	CE15EN3.■.B10-N	2120	
					1NC	CE15EN3.■.B01-N		
F	40	32	20	15	1NO	CE15FN3.■.B10-N	4220	
					1NC	CE15FN3.■.B01-N		
G	60	40	30	22	1NO+1NC	CE15GN3 ■	6270	
					-	CE15GN3 ■ NB	5940	
H	75	50	33.5	25	1NO+1NC	CE15HN3 ■	7900	
					-	CE15HN3 ■ NB	7590	
J	80	65	50	37	1NO+1NC	CE15JN3 ■	10740	
					-	CE15JN3 ■ NB	10430	
K	80	73	50	37	1NO+1NC	CE15KN3 ■	11030	
					-	CE15KN3 ■ NB	10680	
	80	75	50	37	1NO+1NC	CE15K1N3 ■	11130	
					-	CE15K1N3 ■ NB	10740	
K-1	115	80	53	40	1NO+1NC	BCH15KT.3.11.■	12650	
L	125	95	62	47	1NO+1NC	BCH15LT.3.11.■	15280	
M	135	110	80	60	1NO+1NC	BCH15MT.3.11.■	18770	
N	230	150	100	75	1NO+1NC	BCH15NT.3.11.■	24970	
P	250	175	125	95	1NO+1NC	BCH15PT.3.11.■	31120	
R	300	200	150	100	1NO+1NC	MCE15RN3 ■ 7	36100	
S0	315	265	186	140	1NO+1NC	MCE15S0N3 ■ 7	44700	
S	315	300	220	160	1NO+1NC	MCE15SN3 ■ 7	49360	

Freedom Series 3 Pole AC/DC Control

HSN Code : 8536

Size	AC1 Rating(A)	AC3 Rating 415 V			Aux. Contact	Cat. No.	MRP [₹]
		A	HP	KW			
BCH54	600	400	320	240	2NO+2NC	BCH54.3.22. ■	63330
BCH55	600	450	320	240	2NO+2NC	BCH55.3.22. ■	81440
BCH57	760	550	420	315	2NO+2NC	BCH57.3.22. ■	91790
BCH62	1000	700	533	400	2NO+2NC	BCH62.3.22. ■	167540
BCH64	1000	860	666	500	2NO+2NC	BCH64.3.22. ■	272890
BCH76	1200	1000	800	600	1NO+2NC	BCH76.3.12. ■	485810
BCH78	1350	1200	933	700	1NO+2NC	BCH78.3.12. ■	514900

■ For Standard Coil Voltage Codes refer page 26

■ For Non Standard Coil Voltages, extra MRP to be added to Contactor MRP for :

Contactor size

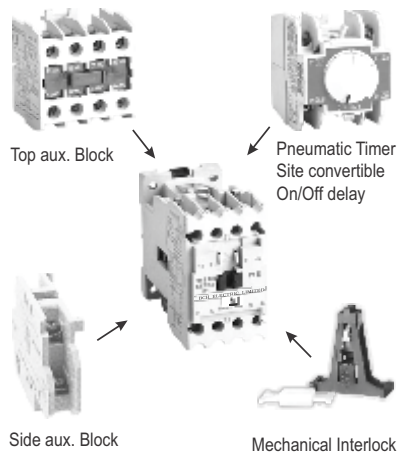
{ A ~ K @ ₹ 40
K-1 ~ S @ ₹ 110
BCH 54 ~ BCH 57 @ ₹ 220

Contactors.....



- 100% rated add-on 4th pole for flexibility (32A to 80A AC1)
- Low energy consumption

Common Accessories 'upto 73A'



Freedom series 4 Pole contactors (AC Control)

HSN Code : 8536

AC1 Rating (A)	Cat. No.	MRP [₹]
20	CE15CN4 ■ B-N	1670
32	CE15DN4 ■-N	1740
40	CE15EN4 ■-N	2630
60	CE15GN4 ■	6330
75	CE15HN4 ■	8400
80	CE15JN4 ■	9680
200	BCH15MN.4.11.■	21910
250	BCH15NN.4.11.■	24200
300	BCH15PN.4.11.■	43320

Contactor : 3 Pole DC Control Type CE15

HSN Code : 8536

AC3 (A) at 415VAC	KW	Aux Contact	Cat No.	MRP [₹]
6	2.2	1NC	CE15ANC3■-N	1600
		1NO	CE15ANS3■-N	
9	4.4	1NC	CE15BNC3■-N	1740
		1NO	CE15BNS3■-N	
12	5.5	1NC	CE15CNC3■-N	1830
		1NO	CE15CNS3■-N	
16	7.5	-	CE15DN3■-N	2220
25	11	-	CE15EN3■-N	2970
32	15	-	CE15FN3■-N	6290
40	22	-	CE15GN3 ■	7450
50	25	-	CE15HN3 ■	9500
65	37	-	CE15JN3 ■	11300
73	37	-	CE15KN3 ■	13310
75	37	-	CE15K1N3■	13310

■ For Coil Voltage Codes refer Table on page 26

Pure DC Freedom Series 3 Pole DC Control Type CE16

HSN Code : 8536



DC Control

- Standard voltages 24VDC , 110VDC , 220VDC

AC3 (A) at 415VAC	KW	Aux Contact	Cat No.	MRP [₹]
9.1	4	1NO	CE16BNS3*B	1810
		1NC	CE16BNC3*B	
12	5.5	1NO	CE16CNS3*B	1910
		1NC	CE16CNC3*B	
16	7.5	1NO+1NC	CE16DN3*B	2330
25	11	1NO+1NC	CE16EN3*B	3180
32	15	1NO+1NC	CE16FN3*B	6620

*CoilCodes:
DCcontrol

24V	U1
48V	W1
110V	A1
220V	B1
60V	X1
125V	E1



Pure DC

Control Relay HSN Code : 8536

Aux Contact	Cat No.	MRP [₹]
2NO+2NC	D16CR22*	1970
3NO+1NC	D16CR31*	
4NO	D16CR40*	

*CoilCodes:DCcontrol

24V	48V	110V	220V
U1	W1	A1	B1

Control Relays Freedom Series HSN Code : 8536

Size	Contact Configuration	Cat No.	MRP [₹]		Lot Size
			AC	DC	
CR	2NO+2NC 3NO+1NC 4NO	D15CR22 ■-N D15CR31 ■-N D15CR40 ■-N	1280	1970	1

■ For Standard Coil Voltage Codes refer page 26

■ For Non Standard Coil Voltages, extra MRP to be added to Contactor / Control relay MRP for :

Contactor size { A~K @ ₹40
BCH15MN ~ BCH15PN @ ₹110
D15CR ~ D16CR @ ₹40

Freedom series Capacitor duty contactor (AC Control)

HSN Code : 8536

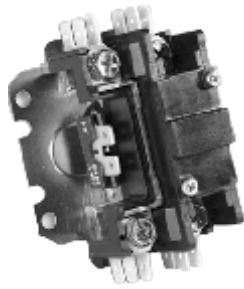


kVARr ating at 415V 3Ph 50Hz	Cat No.	Aux Contacts	MRP [₹]
5	CCD.05.11.▪	1NO+1NC	2370
10	CCD.10.11.▪	1NO+1NC	2580
15	CCD.15.11.▪	1NO+1NC	3770
20	CCD.20.11.▪	1NO+1NC	4420
New 26	CCD.26.11.▪	1NO+1NC	5480
30	CCD.30.11.▪	1NO+1NC	8630
40	CCD.40.11.▪	1NO+1NC	13160
50	CCD.50.21.▪	2NO+1NC	13830
60	CCD.60.21.▪	2NO+1NC	15520

- For Standard Coil Voltage refer table on page no. 26
- For Non Standard Coil Voltages, extra MRP to be added to Contactor MRP for :
 Contactor size

{	CCD.05 ~ CCD.40 @ ₹40
	CCD.50 ~ CCD.60 @ ₹110

Contactors.....



Definite Purpose Contactors

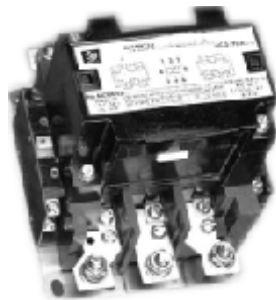
HSN Code : 8536

1 Pole				2 Pole			
AC3 (A)	Type	Cat. No.	MRP [₹]	AC3 (A)	Type	Cat. No.	MRP [₹]
25	1 Pole	CPD251CK	840	20	2P, 140-200VAC	CPD202BL	930
25	1 Pole with Neutral	CPD251NCK	860	25	2P, 220-240VAC	CPD252H	970
40	1 Pole	CPD401CK	910	25	2P, 415VAC	CPD252M	1020
40	1 Pole with Neutral	CPD401NCK	980	40	2P, 220-240VAC	CPD402H	
				40	2P, 415VAC	CPD402M	



*wide band AC coil voltages for Defintie purpose Contactor

Contactor	Cat No.	Voltage		
		170-240VAC	290-415VAC	140V-200VAC
25A 1P	CPD251*	KL	ML	BL
20A 2P	CPD202*			
40A 1P	CPD401*			

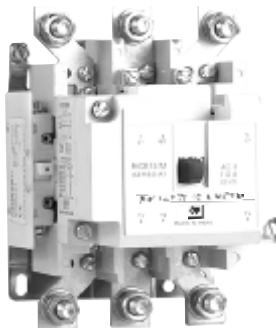


Citation Series 3 Pole AC Control

HSN Code : 8536

Size	AC3 Rating at 415 V			Cat. No. (with Aux. contact 2NO+2NC)	MRP [₹]	Cat. No. (with Aux. contact 1NO+1NC)	MRP [₹]	Cat. No. (without Aux. contact)	MRP [₹]
	Amps	HP	KW						
C4	32	20	15	C4NE22 ■	5870	C4NE11 ■	5490	C4NE00 ■	4870
D	40	30	22	MC10DN22 ■	9290	MC10DN11■	8180	MC10DN00 ■	8120
E	70	50	37	MC10EN22 ■	16650	MC10EN11■	16310	MC10EN00 ■	16000

■ Standard coil voltages are 24, 110, 220, 240 & 415 V AC, 50 Hz. For voltage codes refer Table on page 28



HSN Code : 8536

Size	AC1 Rating	AC3 Rating 415 V			Aux. Contact	Cat. No.	MRP [₹]	Lot Size
		A	HP	KW				
L	140	80	53	40	1NO+1NC	MCE15LN3 ■ 5	14370	1
M	150	95	62	47	1NO+1NC	MCE15M0N3 ■ 5	17240	
M-5	150	110	80	60	1NO+1NC	MCE15MN3 ■ 5	21090	
N	300	140	100	75	1NO+1NC	MCE15NN3 ■ 7	31460	1
Q	300	185	120	90	1NO+1NC	MCE15QN3 ■ 7	35620	

Other Freedom Series Contactors

Freedom Series 3 Pole AC Control



Size	Ac1 Rating	AC3 Rating 415 V			Aux. Contact	Cat. No.	MRP[₹]	Lot Size
		A	HP	KW				
D	32	16	10	7.5	1NO+1NC	CE15DN3 ■ B-N	1740	1
					-	CE15DN3 ■ -N	1430	
D	32	18	10	7.5	1NO+1NC	CE15D1N3 ■ B-N	1750	
					-	CE15D1N3 ■ -N	1440	
E	40	25	15	11	1NO+1NC	CE15EN3 ■ B-N	2320	
					-	CE15EN3 ■ -N	1980	
F	40	32	20	15	1NO+1NC	CE15FN3 ■ B-N	4420	
					-	CE15FN3 ■ -N	4010	

■ For Standard Coil Voltage refer table on page no. 26

■ For Non Standard Coil Voltages, extra MRP to be added to Contactor MRP for :

Contactor size

{ D ~ F @ ₹40
 { C4 ~ E @ ₹50
 { L ~ Q @ ₹110

Accessories - Contactors



Freedom Series contactors Add-on accessories for sizes A to K, CR, BCH15KT to BCH15PT, R, S0 & S

HSN Code : 8538



Accessories	Configuration	Cat No.	Contactors Type	MRP [₹]
Aux. Contact Block (side Mounting)	1NO	C320KGSR10	CE15 & CR	200
	1NO+1NC	C320KGSR11		500
	1NC	C320KGSR01		200
	2NO	C320KGSR20		490
	1NO+1NC	BCH15S11	BCH15	620
	1NO+1NC	MC320KB11	MCE15R	790
	1NO+1NC (Late break type)	MC320KAS11	MCE15S0 & MCE15S	760
	2NO+2NC	EF22	BCH54 to BCH64	6470
	1NO+1NC	EB11	BCH76 to BCH78	10050
4th Neutral Switching Pole	800A	NP800/5	BCH54 to 57	33240
	1000A	NP1000/6	BCH62 to 64	39520
	1000A	NP1000/7	BCH76 to 78	45000
Aux. Contact Block (Front Mounting)	1NO	C320KGT*10	CE15, CR	200
	1NC	C320KGT*01		
	2NO	C320KGT*20		
	2NC	C320KGT*02		290
	1NO+1NC	C320KGT*11		
	2NO+2NC	C320KGT*22		
	3NO+1NC	C320KGT*31		
	4NO	C320KGT*40	520	
	1NO+3NC	C320KGT*13		
	4NC	C320KGT*04		
	4NO	BCH15T40	BCH15	1210
	3NO+1NC	BCH15T31		
	2NO+2NC	BCH15T22		
	1NO+1NC	BCH15T11		960
1NO	BCH15T10			
1NC	BCH15T01			
1NO+1NC (0.1 to 30 sec)	C320TP1	CE15 & CR		
1NO+1NC (10 to 180 sec)	C320TP2			
Mechanical Interlocks	-	C321KM60	CE15 & CR	460
	-	MC321KM3	MCE15R to MCE15S	1410
	Horizontal	BM5H	BCH54 to 57	8540
		BM6H	BCH62 to 64	14930
		BM7H	BCH76 to 78	39570
	Vertical	BM5V	BCH54 to 57	8540
		BM6V	BCH62 to 64	14930
		BM7V	BCH76 to 78	35110
	Horizontal	BM0H	BCH15KT/LT/MT	470
		BM3H	BCH15NT/PT/MN/NN/PN	510

Horizontal Mechanical Interlocks

Vertical Mechanical Interlocks

*Add suffix C for power contactors, R for control relays. The suffix C/R denote terminal marking as per standard EN5001 on BS5583 on add on aux. contact blocks used with contactors / control relays

Accessories - Contactors



Add-on accessories for sizes A to K, CR, BCH15KT to BCH15PT, R, S0 & S HSN Code : 8538

Accessories	Configuration	Cat No.	Contactors Type	MRP [₹]
Coil Surge Suppressors	24-48V (50/60Hz)	MC320LR11	CE15, CR	460
	110-240V (50/60Hz)	MC320LR12		
Mechanical latch #	§ to complete the cat no. suffix code given	AM5- §	BCH54 to BCH57	23700
		Am6 §	BCH62 to BCH64	33520

Mechanical latch are supplied with AC coils only

§ Coil Voltage suffix code for Mechanical latch AM5 & AM6

Coil voltage	110-120	220-240	380-415	440-480
Suffix Code	AW4	BA4	LB4	CB4

Accessories for Citation contactors size - L, M, M-5, N, Q, C4, D & E type HSN Code : 8538

Accessories	Configuration	Cat No.	Contactors Type	MRP [₹]
Aux. block side mounting	1NO+1NC	C320KGM11	L, M & M-5	680
	1NO+1NC	MC320KB11	N & Q	790
Aux. block add-on (Late break type)	1NO+1NC	MC320KAS11	L, M, M-5, N & Q	760
	1NO+1NC	AC34EA11	C4, D & E	540
Mechanical Interlock		MC321KM1	C4 & D	580
		MC321KM2	L, M, M-5 & E	630
		MC321KM3	N & Q	1410
Base block	1NO+1NC	MC320KB2	C4 & D	610
	1NO+1NC	AC35EB11	E	600

Contactors



Spare Contacts set for Freedom Contactors

HSN Code : 8538

Size	Consisting of	Cat. No.	MRP [₹]
A	Complete top housing Consisting of fixed & moving contacts	SBANS3 SBANC3 SBAN4	920
B		SBBNS3 SBBNC3 SBBN4	980
C		SBCNS3 SBCNC3 SBCN4	1070
D		SBDN3	1300
E		SBEN3	1530
F		SBFN3	3010
G		6 Fixed contacts 3 Moving Contacts	6-65-4
H	3 springs	6-65-6	3270
J	6 Arc Bonnets	6-65-15	4440
K	3 Spring Retainer	6-65-17	4590
BCH15KT	Complete set of 6 fixed & 3 moving contacts with hardware, contact springs, spring retainers and arc runners	CP-BCH15KT-3	4910
BCH15LT		CP-BCH15LT-3	5640
BCH15MT		CP-BCH15MT-3	6080
BCH15NT		CP-BCH15NT-3	10030
BCH15PT		CP-BCH15PT-3	10030
R	6 Fixed contacts 3 Moving contacts 12 CSK screws & washers	6-288	16160
S0	3 Springs Spring retainers	6-286-S0	21830
S	Self tapping screws & washers 6 Arc Chute assly & screws	6-286	22030
BCH54	Complete set of 6 fixed & 3 moving contacts with hardware, contact springs, spring retainers and arc runners	CP-BCH54-3	27500
BCH55		CP-BCH55-3	31700
BCH57		CP-BCH57-3	44670
BCH62		CP-BCH62-3	81630
BCH64		CP-BCH64-3	100350
BCH76		CP-BCH76-3	238730
BCH78		CP-BCH78-3	268260

Spare Contacts set for Citation Contactors

HSN Code : 8538

Size	Consisting of	Cat.No.	MRP [₹]
C4	6 Fixed main contacts 6 Pan head screws 6 Helical lock washers	SP34K	2530
MC10D	6 Fixed Main Contacts 3 Compression springs 3 Retainers	6-334	3490
MC10E	Same as above plus 6 Blow outs 6 M5/M4 self tapping screws	6-335	6590
L	6 Fixed Contacts 6 Pan Head Screws	6-385-L0	5070
M	6 Helical Lock Washers 3 Moving contacts	6-385-M	5460
M-5	3 Springs, 3 Retainers 6 Blowouts 6 self tapping screws	6-385	5770
N	6 Fixed contacts 12 CSK screws & washers	6-293	13430
Q	3 Moving contacts 3 Springs, Spring Retainers, Self tapping screws & Washers	6-288-Q	16070

Spare ARC chambers - BCH15KT to BHC15PT, BCH54 to BCH78

HSN Code : 8538

Contactors	Cat. No.	MRP [₹]
BCH15KT	PF-BCH15KT	710
BCH15LT	PF-BCH15LT	
BCH15MT	PF-BCH15MT	
BCH15NT	PF-BCH15NT	1250
BCH15PT	PF-BCH15PT	
BCH54/BCH55/BCH57 (for all 3 poles)	PF-BCH5	8650
BCH62/BCH64 (for all 3 poles)	PF-BCH6	23990
BCH76/78 (for single pole)	3PF-BCH78	51670

Contactors



Spare Coil - size CR, A to K, MCE15R, MCE15S0, MCE15S, BCH15KT to BCHPT, BCH54 to BCH78

HSN Code : 8538

Size	For Size	Cat. No.	MRP [₹]
Magnetic coil	CR, A,B, C	MC15CW ■	530
	CE16, D16 (Pure DC)	MC16FW ■	860
	D, E, F	MC15FW ■	600
	G, H, J, K	MC15KW ■	1550
	BCH15KT/LT	B02. ■	1460
	BCH15MT	B022. ■	2490
	BCH15NT / PT / MN / NN / PN	B031. ■	4980
	R, S0, S	9-2412- ■	4520
Magnetic coil (set of two)	BCH54/ BCH55/ BCH57	B51. ■	10160
Feeder group		FG51. ■	10440
Magnetic coil (set of two)	BCH62/ BCH64	B61. ■	28770
Feeder group		FG61. ■	34520
Magnetic coil (set of two)	BCH76/ BCH78	B8- ■	79700
Feeder group		FG78- ■	80770

- To specify coil voltage please refer page no.26
- For Non Standard Coil Voltages, extra MRP to be added to Coil MRP for :

Contactors size

{ A ~ K @ ₹40
 CR, CE16, D16 @ ₹40
 BCH15KT ~ PN @ ₹110, R ~ S @ ₹110
 BCH54 ~ BCH57 @ ₹220

Note : Coil set for BCH54 to BCH78 contactors consists of 2 half coils. Magnetic coil & Feeder group must have the same control voltage. For eg. If coil voltage is changed from 110V to 220V then Feeder group should also be changed to 220V

Spare Coil - Citation Contactors

HSN Code : 8538

Description	Cat. No.	MRP [₹]	Lot size
Magnetic coil for MCE15L, MCE15M0, MCE15M	9-2268- ■	2050	1
Magnetic coil for MCE15N & MCE15Q	9-2412- ■	4520	1
Magnetic coil for C4 & MC10D	9-2267- ■	1280	1
Magnetic coil for MC10E type	9-2268- ■	2050	1

- To specify coil voltage please refer page no. 26
- For Non Standard coil voltages, extra MRP to be added to coil MRP for :

Contactors size :

L ~ Q @ ₹110
 C4 ~ E @ ₹50

Coil Voltage Table



COIL VOLTAGE: MASTER TABLE

PRODUCT	24V		48V		110V		160-220V		220V		220-240V		230-360V		240V		190-400V		260-400V		380V		380-415V		415V		440V		550V	
	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
#CR Relay	U	U3	W	W3	A	A3	-	B	B3	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	
#CE15A-F	U	U3	W	W3	A	A3	-	B	B3	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	
#CE15G-K	U	U3	W	W3	A	A3	-	B	B3	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	
BCH15KT-LT	U	-	W	-	A	-	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	
BCH15MT-PT	24	-	48	-	110	-	-	-	-	220	-	-	-	-	-	-	-	-	-	-	-	-	-	380	-	440	550	-	-	
BCH15MT-PT	24	-	48	-	110	-	-	-	-	220	-	-	-	-	-	-	-	-	-	-	-	-	-	380	-	440	550	-	-	
MCE15R-S	U	U3	-	-	A	A3	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	
BCH54-64	-	-	-	-	110	110	-	220	220	220	220	220	-	-	380	380	380	380	380	380	380	380	-	380	440	440	-	-	-	-
BCH76&78	-	-	-	-	A7	A17	-	B7	-	-	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C4 & D	-	-	-	-	A	-	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	-
MC10EN	U	-	-	-	A	-	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	-
MCE15L-M5	U	-	W	-	A	-	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	-
MCE15N-Q	U	U3	-	-	A	A3	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	L	-	M	-	C	-	-	-	-

1. For other coil voltages & wide band coil option please contact nearest sales office

#The interchangeability between AC & DC Coil of CE15 / D15 type contactors is not possible at site. Only Company fitted DC control is available for this range.

Overload Relay



Citation-M Overload Relays (Direct Mounting) with built-in single phase protection

Citation Overload Relay



- Wide range : From 0.195 A to 600 A
- Built in Single Phasing Protection
- Ambient temperature compensated
- Test button for checking tripping mechanism
- Field convertible auto/manual reset
- Snap on cover
- Special Mechanism ensuring closest protection to motor
- Contactor mounting & separate mounting
- Successfully tested for Type-2 Coordination
- Suitable for almost all makes of Contactors
- Proven and tested

HSN Code : 8536

HSN Code : 8538

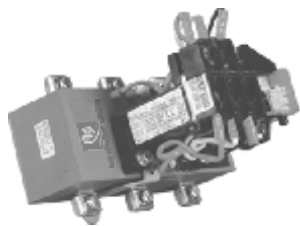
Relay Range	Cat. No.	MRP [₹]	Terminal Block for individual mounting	MRP [₹]
0.195 - 0.31	MC305ANA3A	1560	(Incoming) MC305TB1 (Outgoing) MC305TB3	180
0.30 - 0.48	MC305ANA3B			
0.47 - 0.75	MC305ANA3C			
0.72 - 1.14	MC305ANA3D			
1.07 - 1.70	MC305ANA3E			
1.58 - 2.50	MC305ANA3F			
2.40 - 3.80	MC305ANA3G			
3.80 - 6.00	MC305ANA3H			
6.00 - 9.30	MC305ANA3J			
8.90 - 13.50	MC305ANA3K			
13.20 - 20.00	MC305ANA3L	1720	(Incoming) MC305TB2 (Outgoing) MC305TB3	
17.40 - 24.00	MC305ANA3M	1900		
22.00 - 30.00	MC305ANA3N*	2460		
23.00 - 32.00	MC305ANA3P*	2480	(Incoming) MC305TB2 (Outgoing) MC305TB3	
26.00 - 40.00	MC305ANA3Q*	2700		

* Overload relay type "N, P & Q" must be used with terminal block MC305TB3

DIN rail mounting kit with incoming terminal block HSN Code : 8538

Relay Range (A)	Cat. No.	MRP [₹]
A to K	MC305DM1	250
L to N	MC305DM2	260

CT Operated Overload Relay



CT Operated Overload Relays-Individual Mounting HSN Code : 8536

Relay Range (A)	Cat. No.	MRP [₹]
24.4-39.0	CT1MC305ANA3C	3660
37.6-60.0	CT2MC305ANA3C	4720
56.4-90.0	CT3MC305ANA3C	5790
84.6-135.0	CT4MC305ANA3C	5880
131.6-210.0	CT5MC305ANA3C	8900
188.0-300.0	CT6MC305ANA3C	10630
263.2-420.0	CT7MC305ANA3C	11000
376.0-600.0	CT8MC305ANA3C	12240

Overload Relay

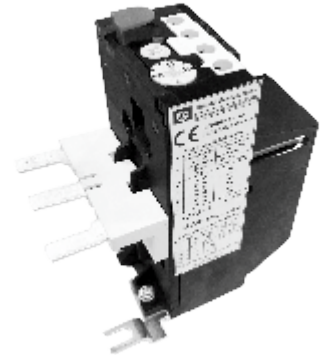


Freedom Overload Relay



MC318ANA

- Range : From 0.1A to 80A
- IEC:60947-4-1
- Relay class-10A
- Built in Single Phasing Protection
- Ambient temperature compensated
- Test button for checking tripping mechanism
- Field convertible auto manual reset
- Contactor mounting / Individual Mounting



MC318GNA

Freedom Overload Relays

HSN Code : 8536

HSN Code : 8538

Relay Range (A)	Cat. No.	MRP [₹]	Accessories
0.1-0.16	MC318ANA3A	1480	Adaptor for Individual mounting Cat. No. C318F1 MRP Rs. 370
0.16-0.25	MC318ANA3B		
0.25-0.40	MC318ANA3C		
0.40-0.63	MC318ANA3D		
0.63-1.00	MC318ANA3E		
1.0-1.40	MC318ANA3F		
1.3-1.80	MC318ANA3G		
1.7-2.4	MC318ANA3H		
2.2-3.1	MC318ANA3J		
2.8-4.0	MC318ANA3K		
3.5-5.0	MC318ANA3L		
4.5-6.5	MC318ANA3M		
6.0-8.5	MC318ANA3N		
7.5-11	MC318ANA3P		
10.0-14.0	MC318ANA3Q		
13.0-19.0	MC318ANA3R	1690	Adaptor for Individual mounting Cat No. C318F2 MRP Rs.415
18.0-25.0	MC318ANA3S		
24.0-32.0	MC318ANA3T	2340	
22.0-32.0	MC318GNA3B	2530	
29.0-42.0	MC318GNA3C	2540	
36.0-52.0	MC318GNA3D	3430	
45.0-63.0	MC318GNA3E	3820	
60.0-80.0	MC318GNA3F	4710	

Electronic Overcurrent Relay.....



BOCR SS



- Over Current
- Locked Rotor
- Phase Loss

BOCR SSD



- Over Current
- Locked Rotor
- Phase Loss

BOCR DS3/DS1



- Over Current
- Phase Loss
- Locked Rotor
- Phase Reversal

BOCR 3DE



- Over Current
- Under Current
- Phase Loss
- Phase imbalance
- Phase Reversal
- Locked Rotor

BOCR 3EZ



- Over Current
- Under Current
- Phase Loss
- Phase Unbalance
- Phase Reversal
- Locked Rotor
- Ground Fault

BOCR PMZ



- Over Current
- Under Current
- Phase Loss
- Phase Unbalance

BOCR PFZ



- Phase Reversal
- Locked Rotor
- Ground Fault
- 4-20mA analog output

BOCR IFDM/IFDZ



- Over Current
- Under Current
- Phase Loss
- Phase Unbalance
- Phase Reversal
- Locked Rotor
- Ground Fault (in IFDZ model)
- RS-485 communication

Bhartia Electronic Overcurrent Relay

HSN Code : 8536

Model	Current Range	Cat. No.	Type	MRP [₹]
BOCR SS 05	0.5-6A	MP21SS005	Analog model	4180
BOCR SS 30	3.0 -30A	MP21SS030		
BOCR SS 60	5.0-60A	MP21SS060		
BOCR SSD 05	0.5-6A	MP22SSD005	Digital model/ Inbuilt display	7570
BOCR SSD 30	3.0 -30A	MP22SSD030		
BOCR SSD 60	10-60A	MP22SSD060		
BOCR DS3 05	0.5-6A	MP34DS3005	Analog model (Definite time)	6440
BOCR DS3 30	3.0 -30A	MP34DS3030		
BOCR DS3 60	5.0-60A	MP34DS3060		
BOCR DS1 05	0.5-6A	MP32DS1005	Analog model (Inverse time)	6440
BOCR DS1 30	3.0 -30A	MP32DS1030		
BOCR 3DE	0.5-60A	MP353DE800	Inbuilt display	21340
BOCR FDE [#]	0.5-60A	MP35FDE800	Flush mounted display	23470
BOCR 3EZ	0.5-60A	MP363EZ800	Inbuilt display	23230
BOCR FEZ [#]	0.5-60A	MP36FEZ800	Flush mounted display	25550
BOCR PMZ	0.5-60A	MP37PMZ060	4-20mA analog output/ Inbuilt display	49240
BOCR PFZ [#]	0.5-60A	MP37PFZ060	4-20mA analog output/ Flush mounted display	48950
BOCR IFDM [#]	0.5-60A	MP39-IFDM400H	RS-485 comm./ Flush mounted display	28840
BOCR IFDZ [#]	0.5-60A	MP39-IFMZ400H	RS-485 comm./Earth fault/ Flush mounted display	36570

Note: Use suitable CT for currents above 60A

■ Control Voltage suffix for BOCR

Model no.	Control voltage					
	24-240 VAC/DC	380-440 VAC	100-240 VAC	24 VDC	100-240 VAC/DC	85-250 VAC/DC
BOCR-SS	S4	W1	-	-	-	-
BOCR-SSD	S4	W4	-	-	-	-
BOCR-DS3	S4	-	-	-	-	-
BOCR-DS1	S5	-	-	-	-	-
BOCR-3DE/FDE	-	-	Z4	U1	-	-
BOCR-3EZ/FEZ	-	-	Z4	C4	-	-
BOCR-PMZ/PFZ	-	-	-	-	-	Z7
BOCR-IFDM/IFDZ	-	-	-	-	U4	-

CTs

HSN Code : 8536

Cat No.	Description	MRP [₹]
2CT-D1-100-C	2CT EP 100/5	2630
2CT-D2-200-C	2CT EP 200/5	
2CT-D3-300-C	2CT EP 300/5	2850
2CT-D4-400-C	2CT EP 400/5	3130
3CT-H1-100-C	3CT version 100/5	4060
3CT-HH-150-C	3CT version 150/5	4100
3CT-H2-200-C	3CT version 200/5	4320
3CT-H3-300-C	3CT version 300/5	4590
3CT-H4-400-C	3CT version 400/5	4870
ZCT-035	ZCT version 35mm hole	4680
ZCT-080	ZCT version 80mm hole	6220
ZCT-120	ZCT version 120mm hole	11460

ZCT must be used for ground Fault protection alongwith BOCR

Cable for separate display Models

HSN Code : 8536

Cat No.	For model	Range	MRP [₹]
CABLE-RJ45-003	BOCR-IFDM/IFDZ	CABLE-RJ45 3m EOCR-IFD model	1480
CABLE-15-003Q	BOCR-FDE/FEZ/PFZ	CABLE-15-EP 3M FEZ/FDE/PFZ	1360

Note : Cable must be ordered separately along with the EOCR

MPCB

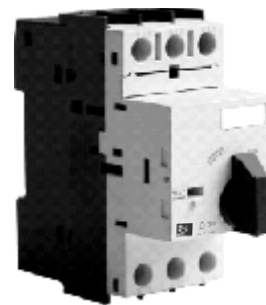
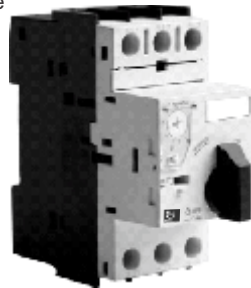


BCH

HSN Code : 8536

MPH range (0.1 to 32A)

- ON/OFF Rotary knob with manual operation
- Clear trip indication with rotary knob
- 1 NO + 1 NC - Front & side mounted
- Trip indicator for visual discrimination between short circuit & over load tripping
- Undervoltage / Shunt Release
- Mag only version also available



Accessories MPH range MPCB



Front mounted aux contact



Side mounted aux contact



Trip indicator - side mounted



UV/Shunt - side mounted



Extended handle - 32A MPCB

Plastic enclosure - 32A MPCB



Cat code	Description	MRP[₹]
(A) Thermal-Magnetic release		
MPH32-0.16	MPCB 3P TM 0.1- 0.16A	3350
MPH32-0.25	MPCB 3P TM 0.16-0.25A	3400
MPH32-0.4	MPCB 3P TM 0.25-0.4A	
MPH32-0.63	MPCB 3P TM 0.4-0.63A	3520
MPH32-1.0	MPCB 3P TM 0.63-1.0A	3730
MPH32-1.6	MPCB 3P TM 1.0-1.6A	
MPH32-2.5	MPCB 3P TM 1.6-2.5A	
MPH32-4.0	MPCB 3P TM 2.5-4.0A	3800
MPH32-6.3	MPCB 3P TM 4.0-6.3A	3890
MPH32-10	MPCB 3P TM 6.3-10.0A	3950
MPH32-16	MPCB 3P TM 10.0-16.0A	4370
MPH32-20	MPCB 3P TM 16.0-20.0A	5210
MPH32-25	MPCB 3P TM 20.0-25.0A	5590
MPH32-32	MPCB 3P TM 25.0-32.0A	8780
(B) With magnetic trip only (no Thermal release)		
MPH32M-0.16	MPCB 3P Mag only 0.16 A	3260
MPH32M-0.25	MPCB 3P Mag only 0.25 A	3310
MPH32M-0.4	MPCB 3P Mag only 0.4 A	
MPH32M-0.63	MPCB 3P Mag only 0.63 A	3430
MPH32M-1.0	MPCB 3P Mag only 1.0 A	3370
MPH32M-1.6	MPCB 3P Mag only 1.6 A	
MPH32M-2.5	MPCB 3P Mag only 2.5 A	
MPH32M-4.0	MPCB 3P Mag only 4.0 A	3570
MPH32M-6.3	MPCB 3P Mag only 6.3 A	3650
MPH32M-10	MPCB 3P Mag only 10 A	3620
MPH32M-16	MPCB 3P Mag only 16 A	3950
MPH32M-20	MPCB 3P Mag only 20 A	4230
MPH32M-25	MPCB 3P Mag only 25 A	4200
MPH32M-32	MPCB 3P Mag only 32 A	7360

HSN Code : 8538

Cat code	Description	MRP[₹]
MPHF11	Front aux contact 1NO+1 NC MPCB	630
MPHS11	Side aux contact 1NO+1 NC MPCB	820
MPHT11	MPCB Trip Indicator	970
MPH024UR	UV Rel. 24V 50HZ MPCB	1600
MPH020UR	UV Rel. 20V 50HZ MPCB	
MPH115UR	UV Rel. 110-115V 50HZ MPCB	
MPH180UR	UV Rel. 180V 50HZ MPCB	
MPH240UR	UV Rel. 230-240V 50HZ MPCB	
MPH380UR	UV Rel. 380V 50HZ MPCB	
MPH415UR	UV Rel. 400-415V 50HZ MPCB	
MPH500UR	UV Rel. 500V 50HZ MPCB	
MPH024SR	Shunt Rel. 20-24V 50/60HZ MPCB	
MPH048SR	Shunt Rel. 40-48V 50/60HZ MPCB	
MPH240SR	Shunt Rel. 200-240V 50/60HZ MPCB	
MPH440SR	Shunt Rel. 365-440V 50/60HZ MPCB	
MPH127SR	Shunt Rel. 100-127V 50/60HZ MPCB	
MPH34	Extrnd rotary handle 32A	1310
B31SMA1	Plastic enclosure for MPH32 MPCB	1740

MPCB



MPE Range (0.1 - 25A)



- Conforms to IEC 60947
- Perfect Coordinated system for Motor Control
- Electrical Life : 100000 Operations
- Excellent Current limiting characteristics
- Modular Snap fit Accessories

MPCB (with thermal & magnetic release) HSN Code : 8536

Cat ref	Setting Range (A)	Motor Rating in kW at 415 V	MRP [₹]
MPE-01	0.1...0.16	-	2910
MPE-02	0.16...0.25	0.06	
MPE-03	0.25...0.4	0.12	
MPE-04	0.4...0.63	0.18	3210
MPE-05	0.63...1	0.25, 0.37	
MPE-06	1...1.6	0.55	3260
MPE-07	1.6...2.5	0.75, 1.1	
MPE-08	2.5...4	1.5	3320
MPE-10	4...6.3	2.2, 3	
MPE-14	6.3...10	4, 5	3480
MPE-16	10...16	5.5, 9	4050
MPE-20	16...20	11	4320
MPE-22	20...25	12.5	4650



Accessories of MPE Range

HSN Code : 8538



Reference	Contacts	MRP [₹]
Auxiliary	Switch	
MPA-0010	1NO	510
MPA-0001	1NC	
MPA-0011	1NO + 1NC	
MPA-0020	2NO	700
Enclosures (IP55)		
MPA-EF	Flush mounted	970
MPA-ES	Surface mounted	1080
Voltage Releases		
MPA-U ■	Under Voltage Release	1500
MPA-S ■	Shunt Release	

■ A: 110 VAC, K: 240 VAC, M: 415 VAC, U: 24 VAC, R: 42 VAC

HSN Code : 8538

Reference	Tap-o *	MRP [₹]
Bus Bar		
MPA-BB245	2 Tap-o (45mm)	710
MPA-BB345	3 Tap-o (45mm)	900
MPA-BB445	4 Tap-o (45mm)	1080
MPA-BB545	5 Tap-o (45mm)	1190
MPA-BB263	2 Tap-o (63mm)	710
MPA-BB463	4 Tap-o (63mm)	1070
MPA-BB1	Incoming Block	650

*centre to centre distance.

MS32 range (0.1 to 32A)

- Auxiliary switch for side mounting & flush mounting
- Indication of release with trip indicating auxiliary switch

HSN Code : 8536



Cat ref	Setting range (A)	Motor rating in KW at 415V	MRP[₹]
MS32-0.16	0.1-0.16	-	2970
MS32-0.25	0.16-0.25	0.06	
MS32-0.4	0.25-0.4	0.09	
MS32-0.63	0.4-0.63	0.12 to 0.18	3170
MS32-1.0	0.63-1.0	0.18 to 0.25	
MS32-1.6	1.0-1.6	0.37 to 0.55	3230
MS32-2.5	1.6-2.5	0.75	3400
MS32-4.0	2.5-4	1.1 to 1.5	3490
MS32-6.3	4-6.3	2.2	
MS32-10	6.3-10	3 to 4	3960
MS32-14.0	9-14	5.5	
MS32-18	13-18	7.5	4210
MS32-23	17-23	9 to 11	4500
MS32-27	20-27	11	4890
MS32-32	25-32	15	7350



Accessories - MS32 range

HSN Code : 8538

Cat ref	type	Contacts	MRP[₹]
HS11	Aux contact side mounting	1NO+1NC	740
HSV10	Aux contact top mounting	1NO	620
HSV01		1NC	
HRS10	Trip indicating block top mounting	1NO	450
HRS01		1NC	
MS32-UR	Under voltage release	-	1600
MS32-AR	Shunt release	-	

Note: For further details, please contact nearest sales office

SDFU



Switch Disconnecter Fuse Units

TU LINE 11
HSN Code : 8536

Suitable for DIN / BOLTED fuses in open execution

Rating (A) AC-23A	Cat No.	Fuse Type	Type	MRP [₹]
32A	PSFS323ND00	DIN	TPN	2220
32A	PSFS323ND000	DIN	TPN	2220
32A	PSFS323NB	Bolted	TPN	2220
32A	PSFS323B	Bolted	TP	2170
63A	PSFS633ND00	DIN	TPN	3070
63A	PSFS633ND000	DIN	TPN	3070
63A	PSFS633NB	Bolted	TPN	3070
63A	PSFS633B	Bolted	TP	2990
100	PSFS1003*	DIN/Bolted	TP	5750
100	PSFS1003N*	DIN/Bolted	TPN	6020
125	PSFS1253*	DIN/Bolted	TP	7600
125	PSFS1253N*	DIN/Bolted	TPN	8150
160	PSFS1603*	DIN/Bolted	TP	8350
160	PSFS1603N*	DIN/Bolted	TPN	9070
200	PSFS2003B	Bolted	TP	10420
200	PSFS2003NB	Bolted	TPN	10700

* Use suffix 'D' for DIN type, 'B' for bolted type

Switch Disconnecter

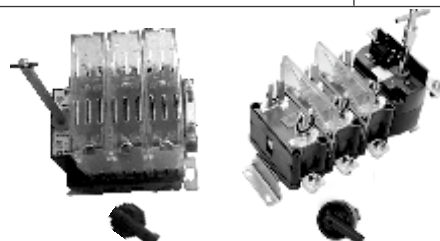
HSN Code : 8536

Rating (A) AC-23A	Cat No.	Fuse Type	Type	MRP [₹]
32A	PSSD323N	-	TPN	2030
63A	PSSD633N	-	TPN	2790
100A	PSSD1003N	-	TPN	5480
125A	PSSD1253N	-	TPN	6810
160A	PSSD1603N	-	TPN	7670
200A	PSSD2003N	-	TPN	8670

Fuse Switch Units Type FS

HSN Code : 8538

Rating (A) AC-23A	Cat No.	Fuse Type	Type	MRP [₹]
32A	FS0N	BOLTED	TP	2330
63A	FS1N	BOLTED	TP	3170
Shroud	AC21TS			200
1NO+1NC	AC21EB11	for FS0 / FS1N		580
Neutral	AC21L	for FS0 / FS1N-		260
Handle assembly-32A	SP21FS0H	for FS0		380
Handle assembly-63A	SP21FS1H	for FS1		380



Switch Disconnecter Fuse

- Conforms to IS 13947-3
- TPN/TP version
- AC 23A duty
- Mechanism with 4 Breaks per pole
- Handle with door interlock and padlock



Electronic Timers



- Fixed Voltage, Fixed Time
- Wide range of input supply - 220VAC; 110VAC; 24V AC/DC
- Large calibrated dial for easy and accurate time setting
- LED indications for Input supply and Output status
- Surface mounting & DIN rail mounting
- 1 changeover relay output (SPDT)
- All Purpose On Delay timer

Multi Function



- 4 Functions - On delay, Interval, Off delay, Single Shot
- Multi Time Range - Sec / Min / Hr
- Universal Voltage - 24 V- 230V AC/DC
- Large calibrated dial for easy and accurate time setting
- Compact Design
- LED indications for Input supply and Output status
- Surface mounting & DIN rail mounting
- 1 changeover relay output (SPDT)
- All Purpose Timer

IBT Electronic Timer

Fixed Voltage; Fixed Time Range - IBTA

HSN Code - 9107

Cat No.	Time Range	Function	MRP [₹]
IBT00-0-	0.6-6/3-30/6-60/18-180 Sec	On Delay	980

- Voltage Code
- Timing Range for IBTA On Delay Timer

Voltage Codes

Voltage	Voltage Code
240V AC	1
110V AC	2
24V AC/DC	3
12V DC	4

Timing Code for IBTA On Delay Timer

Time Range	Code
0.6 - 6 Sec.	1
3 - 30 Sec.	2
6 - 60 Sec.	3
18 - 180 Sec.	4

Universal Voltage, Multi Time, Multi Function - IBTMU

HSN Code - 9107

Cat No.	Time Range	Function	Voltage	MRP [₹]
IBT04500	0.1S - 10 Hr.	On Delay, Off Delay, Interval, Single Shot	24-240V AC/DC	1880



- On Delay
- Off Delay
- Cyclic
- Multifunction
- Star Delta
- Special version for Compressor application
- AC / DC Supply
- Widest timing range from 0.1 sec to 10 Hours in Single Unit
- Calibrated time scale for easy time setting
- DIN rail mounting
- Excellent repeat accuracy

Electronic Timers

HSN Code - 9107

Description	Cat.No.	MRP [₹]
Timer Encapsulated on delay Timer Type SAS-P (Solid State output) Voltages : 240V AC, 110V AC, 48V AC/DC, 24V AC/DC Time Range : 1 sec. or 0.1-10 Sec. or 1-100 Sec., or 3-300 Sec.	SST00-0-	1035
Encapsulated on delay timer type SAS-CB (Solid State output) (Compressor/Heat pump) Voltages : 240V AC, 110V AC, 48V AC/DC, 24V AC/DC Time Range : 180 Sec. fixed	SST02-00	1035
Chronos Delay on make type BAR 0.1 Sec. - 10 Hrs. 240V AC; 24V AC/DC or 110V AC; 24V AC/DC or 12V DC	SBT00-00	1805
Delay on break type BCR 0.1 Sec. - 10 Hrs. 240V AC; 24V AC/DC or 110V AC; 24V AC/DC or 12V DC	SBT01-00	1970
Recycling type BDR 0.1 Sec. - 10 Hrs. 240V AC; 24V AC/DC or 110V AC; 24V AC/DC	SBT02-00	2625
Multifunction type BLR 0.1 Sec. - 10 Hrs. 240V AC; 24V AC/DC or 110V AC; 24V AC/DC	SBT03-00	1990

- Voltage Code
- Timing Range for SAS Timer

Voltage Codes

Type	Voltage	Voltage Code
B	240V AC; 24 V AC/DC	1
	110 V AC; 24 V AC/DC	2
	12 V DC	5
SAS	240V AC	1
	110V AC	2
	48V AC/DC	3
	24V AC/DC	4

Timing Code

Type	Timing	Code
SAS	1 Sec.	0
	10 Sec.	1
	100 Sec.	2
	300 Sec.	3

MCB



BCH

New HSN Code : 8536



- Salient Features:**
- Line load interchangeability
 - Suitable for isolation
 - Suitable for IT systems
 - Current limiting design
 - 45mm panel cutout, suitable for standard MCB distribution boards
 - Possibility of busbar termination at both ends



Pole	Standard pack of	Rating	B Curve Cat. No.	MRP (per unit) [₹]	C Curve Cat. No.	MRP (per unit) [₹]	Rating	Lower Rating Cat. No.	MRP (per unit) [₹]		
1P	12 units	6A	BCHX10SPB06	240	BCHX10SPC06	240	0.5A 1A 2A 3A 4A 5A	BCHX10SPCL5	400		
		10A	BCHX10SPB10	240	BCHX10SPC10	240				BCHX10SPC01	400
		16A	BCHX10SPB16	240	BCHX10SPC16	240				BCHX10SPC02	400
		20A	BCHX10SPB20	240	BCHX10SPC20	240				BCHX10SPC03	400
		25A	BCHX10SPB25	240	BCHX10SPC25	240				BCHX10SPC04	400
		32A	BCHX10SPB32	240	BCHX10SPC32	240				BCHX10SPC05	400
		40A	BCHX10SPB40	560	BCHX10SPC40	560					
		50A	BCHX10SPB50	560	BCHX10SPC50	560					
		63A	BCHX10SPB63	560	BCHX10SPC63	560					
		1P+N	6 units	6A						BCHX10SNC06	730
10A					BCHX10SNC10	730					
16A					BCHX10SNC16	730					
20A					BCHX10SNC20	730					
25A					BCHX10SNC25	730					
32A					BCHX10SNC32	730					
40A					BCHX10SNC40	1090					
50A					BCHX10SNC50	1090					
63A			BCHX10SNC63	1090							
2P	6 units	6A	BCHX10DPB06	785	BCHX10DPC06	785	0.5A 1A 2A 3A 4A 5A	BCHX10DPCL5	1110		
		10A	BCHX10DPB10	785	BCHX10DPC10	785				BCHX10DPC01	1110
		16A	BCHX10DPB16	785	BCHX10DPC16	785				BCHX10DPC02	1110
		20A	BCHX10DPB20	785	BCHX10DPC20	785				BCHX10DPC03	1110
		25A	BCHX10DPB25	785	BCHX10DPC25	785				BCHX10DPC04	1110
		32A	BCHX10DPB32	785	BCHX10DPC32	785				BCHX10DPC05	1110
		40A	BCHX10DPB40	1235	BCHX10DPC40	1235					
		50A	BCHX10DPB50	1235	BCHX10DPC50	1235					
		63A	BCHX10DPB63	1235	BCHX10DPC63	1235					
		3P	4 units	6A	BCHX10TPB06	1245				BCHX10TPC06	1245
10A	BCHX10TPB10			1245	BCHX10TPC10	1245	BCHX10TPC01	1525			
16A	BCHX10TPB16			1245	BCHX10TPC16	1245	BCHX10TPC02	1525			
20A	BCHX10TPB20			1245	BCHX10TPC20	1245	BCHX10TPC03	1525			
25A	BCHX10TPB25			1245	BCHX10TPC25	1245	BCHX10TPC04	1525			
32A	BCHX10TPB32			1245	BCHX10TPC32	1245	BCHX10TPC05	1525			
40A	BCHX10TPB40			1900	BCHX10TPC40	1900					
50A	BCHX10TPB50			1900	BCHX10TPC50	1900					
63A	BCHX10TPB63			1900	BCHX10TPC63	1900					
3P+N	3 units			6A			BCHX10TNC06	1560			
		10A			BCHX10TNC10	1560					
		16A			BCHX10TNC16	1560					
		20A			BCHX10TNC20	1560					
		25A			BCHX10TNC25	1560					
		32A			BCHX10TNC32	1560					
		40A			BCHX10TNC40	2115					
		50A			BCHX10TNC50	2115					
63A			BCHX10TNC63	2115							
4P	3 units	6A	BCHX10FPB06	1675	BCHX10FPC06	1675	0.5A 1A 2A 3A 4A 5A	BCHX10FPCL5	2095		
		10A	BCHX10FPB10	1675	BCHX10FPC10	1675				BCHX10FPC01	2095
		16A	BCHX10FPB16	1675	BCHX10FPC16	1675				BCHX10FPC02	2095
		20A	BCHX10FPB20	1675	BCHX10FPC20	1675				BCHX10FPC03	2095
		25A	BCHX10FPB25	1675	BCHX10FPC25	1675				BCHX10FPC04	2095
		32A	BCHX10FPB32	1675	BCHX10FPC32	1675				BCHX10FPC05	2095
		40A	BCHX10FPB40	2395	BCHX10FPC40	2395					
		50A	BCHX10FPB50	2395	BCHX10FPC50	2395					
		63A	BCHX10FPB63	2395	BCHX10FPC63	2395					

RCCB



RCCB, Double Pole

HSN Code : 8536

Description	Cat. No.	MRP [₹]
25A - 30mA	BCHRCB030DPC25	3095
40A - 30mA	BCHRCB030DPC40	3170
63A - 30mA	BCHRCB030DPC63	4255
25A - 100mA	BCHRCB100DPC25	3130
40A - 100mA	BCHRCB100DPC40	3245
63A - 100mA	BCHRCB100DPC63	4350
25A - 300mA	BCHRCB300DPC25	3130
40A - 300mA	BCHRCB300DPC40	3475
63A - 300mA	BCHRCB300DPC63	4350

All above RCCB's are 'AC' type



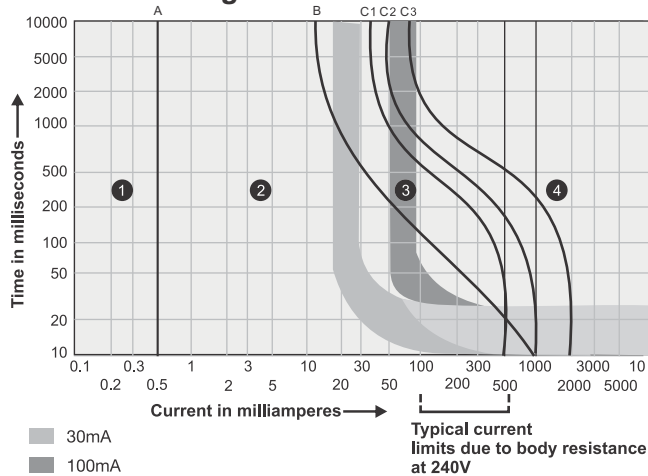
RCCB, Four Pole

HSN Code : 8536

Description	Cat. No.	MRP [₹]
25A - 30mA	BCHRCB030FPC25	3995
40A - 30mA	BCHRCB030FPC40	4115
63A - 30mA	BCHRCB030FPC63	4630
25A - 100mA	BCHRCB100FPC25	4115
40A - 100mA	BCHRCB100FPC40	4285
63A - 100mA	BCHRCB100FPC63	4630
25A - 300mA	BCHRCB300FPC25	4115
40A - 300mA	BCHRCB300FPC40	4305
63A - 300mA	BCHRCB300FPC63	4630

All above RCCB's are 'AC' type

Current Limiting Curve



Effect of Current

Zone	Effects
Zone 1	Usually no reactions
Zone 2	Usually no harmful effects
Zone 3	Muscle cramps can occur. There is normally no danger of ventricular fibrillation.
Zone 4	Chances of ventricular fibrillation increased upto 5% (Curve C2) upto 50% (Curve C3) and above 50% beyond Curve C3. Effects such as cardiac arrest, breathing arrest and heavy burns may also occur.

Power Factor Control Products

- **LT Power Capacitors - Cylindrical Type**
- **LT Power Capacitors - Box Type**
- **Freedom Series Capacitor Duty Contactor**
- **Super Heavy Duty Box Type Capacitor**
- **Detuned Reactors**
- **Thyristor Switched Module**
- **Automatic Power Factor Controllers (APFC)
& Intelligent Power Factor Controllers (IPFC)**
- **Network Analysers**
- **APFC Panels**



LT Power Capacitors.....

MPP Can type capacitors




MPP Can Type Capacitors(with ISI Mark) (440V)

HSN Code : 8532

KVAR	Normal Duty		Heavy Duty	
	Cat. No.	MRP [₹]	Cat. No.	MRP [₹]
1	BCHMCN001B	310	BCHMCH001B	440
2	BCHMCN002B	620	BCHMCH002B	880
3	BCHMCN003B	930	BCHMCH003B	1320
4	BCHMCN004B	1240	BCHMCH004B	1750
5	BCHMCN005B	1500	BCHMCH005B	1990
7.5	BCHMCN007B	2250	BCHMCH007B	2980
10	BCHMCN010B	2700	BCHMCH010B	3680
12.5	BCHMCN012B	3380	BCHMCH012B	4600
15	BCHMCN015B	4050	BCHMCH015B	5520
20	BCHMCN020B	5400	BCHMCH020B	7370
25	BCHMCN025B	6750	BCHMCH025B	9200

Heavy edge Zn Al Alloy MPP film



.02 - .03 micron metallised layer

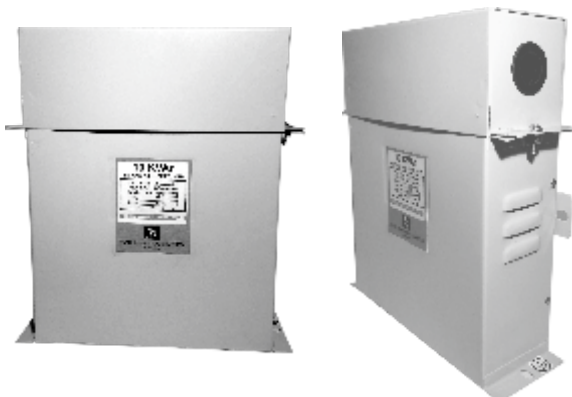
MPP Capacitors (IS13340)

MPP capacitors are manufactured using Zn-Al metallized polypropylene film. These modules are provided with pressure interrupter arrangement for safety against bursting due to internal pressure arised due to prolonged high voltage / current. The modules are assembled in aluminium case or CRCA container

MPP Box Type Capacitors(with ISI Mark) (440V)

HSN Code : 8532

KVAR	Normal Duty		Heavy Duty	
	Cat. No.	MRP [₹]	Cat. No.	MRP [₹]
1	BCHMBN001B	350	BCHMBH001B	440
2	BCHMBN002B	690	BCHMBH002B	880
3	BCHMBN003B	1030	BCHMBH003B	1320
4	BCHMBN004B	1370	BCHMBH004B	1760
5	BCHMBN005B	1610	BCHMBH005B	2070
7.5	BCHMBN007B	2420	BCHMBH007B	3100
10	BCHMBN010B	3210	BCHMBH010B	4130
12.5	BCHMBN012B	4030	BCHMBH012B	5170
15	BCHMBN015B	4830	BCHMBH015B	6200
20	BCHMBN020B	6430	BCHMBH020B	8270
25	BCHMBN025B	8040	BCHMBH025B	10340



Price of 480V & 525V Capacitors available on request.

LT Power Capacitors.....



BCH



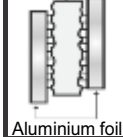
APP Box Type Single Layer Capacitors & Super Heavy Duty Box Type Capacitors (with ISI Mark) (440V) HSN Code : 8532

KVAR	APP Capacitor		SHD Capacitor	
	Cat. No.	MRP [₹]	Cat. No.	MRP [₹]
1	BCHAPS001B	870	BCHSHD001B	1830
2	BCHAPS002B	1730	BCHSHD002B	3640
3	BCHAPS003B	2580	BCHSHD003B	5460
4	BCHAPS004B	3440	-	-
5	BCHAPS005B	4180	BCHSHD005B	7790
7.5	BCHAPS007B	6280	BCHSHD007B	11700
10	BCHAPS010B	7770	BCHSHD010B	15600
12.5	BCHAPS012B	9720	BCHSHD012B	19490
15	BCHAPS015B	11650	BCHSHD015B	23390
20	BCHAPS020B	15540	BCHSHD020B	31190
25	BCHAPS025B	19440	BCHSHD025B	38980

Price of 480V & 525V Capacitors available on request.

Double thick double hazy pp film

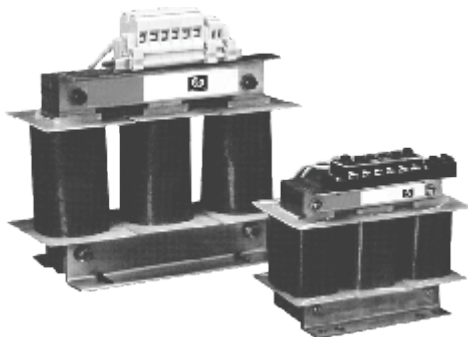
APP Capacitors



Non self healing APP capacitors manufactured using double hazy and double thick polypropylene films between two electrodes of thick aluminium foil have extended foil construction to ensure low watt losses

Aluminium foil

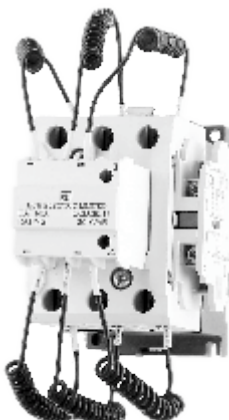
7% Aluminium wound & Copper wound 440V Detuned Reactors HSN Code : 8504



KVAR	Aluminium wound		Copper wound	
	Cat. No.	MRP [₹]	Cat. No.	MRP [₹]
5	BCHRAL005B	On request	BCHRCU005B	On request
10	BCHRAL010B	On request	BCHRCU010B	On request
15	BCHRAL015B	On request	BCHRCU015B	On request
20	BCHRAL020B	On request	BCHRCU020B	On request
25	BCHRAL025B	On request	BCHRCU025B	On request
50	BCHRAL050B	On request	BCHRCU050B	On request
75	BCHRAL075B	On request	BCHRCU075B	On request
100	BCHRAL100B	On request	BCHRCU100B	On request

Freedom series Capacitor duty contactor (AC Control)

HSN Code : 8536



kVAR rating at 415V3Ph 50Hz	Cat No.	Aux Contacts	MRP [₹]
5	CCD.05.11.■	1NO+1NC	2370
10	CCD.10.11.■	1NO+1NC	2580
15	CCD.15.11.■	1NO+1NC	3770
20	CCD.20.11.■	1NO+1NC	4420
26	CCD.26.11.■	1NO+1NC	5480
30	CCD.30.11.■	1NO+1NC	8630
40	CCD.40.11.■	1NO+1NC	13160
50	CCD.50.21.■	2NO+1NC	13830
60	CCD.60.21.■	2NO+1NC	15520

New

- For Standard Coil Voltage refer table on page no. 26
- For Non Standard Coil Voltages, extra MRP to be added to Contactor MRP for :
 Contactor size { CCD.05 ~ CCD.40 @ ₹40
 { CCD.50 ~ CCD.60 @ ₹110

LT Power Capacitors.....



Thyristor Switched Module with Visual Circuit Indicator HSN Code : 8538

KVAR	Type	Rated Voltage (V)	Cat. No.	MRP [₹]
5	TSM	440	BCHTSM005	37390
10	TSM	440	BCHTSM010	37390
15	TSM	440	BCHTSM015	37390
20	TSM	440	BCHTSM020	42660
25	TSM	440	BCHTSM025	42660
50	TSM	440	BCHTSM050	53200
75	TSM	440	BCHTSM075	88320
100	TSM	440	BCHTSM100	88320

APFC

Intelligent Power Factor Controllers (IPFC)

Steps	Cat. No.	Voltage	Brief description	MRP [₹]
12 STEP - 3φ	RG3-12C	230V	12 Step intelligent PFC	36460
12 STEP - 3φ	RG3-12CS	230V	12 Step intelligent PFC with RS 485 communication	41010
15 STEP - 3φ	RG3-15C	230V	15 Step , Intelligent PFC relay	38220
15 STEP - 3φ	RG3-15CL	230V	15 Step , Intelligent PFC relay with 3 steps for reactor	On request
15 STEP - 3φ	RG3-15CS	230V	15 Step , Intelligent PFC relay with RS485 communication	46240
15 STEP - 3φ	RG3-15CLS	230V	15 Step , Intelligent PFC relay with 3 steps for reactor and RS485 communication	On request

Note : **RG3-8/12/15 and RG3-12/15CS available in 230V only



- 3-Phase / 3CTs
- Connecting Single-Phase & 3-Phase Capacitors
- Compensation of Each Phase
- Measures : A, Cos-Ø, Total W, Total VAR, Total VA, Total KWH, Total KVARh
- Harmonic Measurement (up to 19th)
- THD 1% THD V%
- Programmable THD Protection
- Programmable Discharge Time
- Programmable THD Alarm
- Password Protection for setup
- Overheat Protection (Optional)
- RS-485 Communication (Optional)
- RG-15C - Intelligent relay PFC with smart switching with all 15 steps relay connection
- RG-15C - Intelligent relay PFC with smart switching with all 15 steps relay connection with communication

Automatic Power Factor Controllers (APFC)

Steps	Cat. No.	Voltage	Brief description	MRP [₹]
6 STEP - 1 φ	RG-6T-230-96	230V	PFC (96X96) WITH 6 STEPS , 230 V	14130
6 STEP - 1 φ	RG-6T-415-96	415V	PFC (96X96) WITH 6 STEPS , 415 V	14130
6 STEP - 1 φ	RG-6T-230	230V	PFC (144X144) WITH 6 STEPS, 230 V	14760
6 STEP - 1 φ	RG-6T-415	415V	PFC (144X144) WITH 6 STEPS, 415 V	14760
8 STEP - 1 φ	RG-8T-230	230V	PFC (144X144) WITH 8 STEPS, 230 V	16780
8 STEP - 1 φ	RG-8T-415	415V	PFC (144X144) WITH 8 STEPS, 415 V	16780
8 STEP - 3 φ	RG3-8T-230	230V	PFC 144X144, 8 STEPS, 230V UNBALANCE LOAD	22560
12 STEP - 1 φ	RG-12T-230	230V	PFC (144X144) WITH 12 STEPS, 230 V	21010
12 STEP - 1 φ	RG-12T-415	415V	PFC (144X144) WITH 12 STEPS, 415 V	21010
12 STEP - 3 φ	RG3-12T-230	230V	PFC 144X144, 12 STEPS, 230V UNBALANCE LOAD	27310

Note : **RG3-8/12/15 and RG3-12/15CS available in 230V only

Plugs & Sockets



Metal Clad - Plugs & Sockets Type 'MP' & 'MS'

HSN Code : 8536

Rating	Pins	Type	Cat No.	MRP [₹]
20A, 250V	2P + E	Plug	MP20	230
		Socket	Ms20	255
30A, 440V	3P + E	Plug	MP30	535
		Socket	Ms30	565



Plastic Plugs & Socket Type 'PS'

HSN Code : 8536

Rating	Pins	Type	Cat No.	MRP [₹]
20A, 250V	3	Plug	PS16AA7	260
		Flush Mounting Socket	PS16BA7	375
		Socket with Wall Mounting Box	PS16DA7	460
20A, 415V	4	Plug	PS16AA1	320
		Flush Mounting Socket	PS16BA1	490
		Socket with Wall Mounting Box	PS16DA1	570
32A, 415V	3	Plug	PS32AA7	565
		Socket	PS32BA7	565
	4	Plug	PS32AA1	595
		Socket	PS32BA1	595
	5	Plug	PS32AA5	630
		Socket	PS32BA5	630

- Self Locking design : Extremely safe
- Plug cannot be pulled out in fully engaged position
- Auto closing socket shutter
- Reliable Earthing
- Shrouded Terminals for safety

Heavy duty Metal-Control 'SS'



Heavy Duty Metal - Control Plugs & Sockets Type 'SS'

HSN Code : 8536

Rating	Pins	Type	Cat No.	MRP [₹]
12A, 415V (Control)	12	Panel Mounting Socket	2499/12	1725
		Plug with inclined Handle	299/12B	1455

Heavy duty Metal-Power 'SS'



Heavy Duty Metal - Power Plugs & Sockets Type 'SS'

HSN Code : 8536

Rating	Pins	Type	Cat No.	MRP [₹]
30A, 415V	3	Panel Mounting Socket	2415B	805
		Plug with inclined Handle	215B	785
30A, 415V	4	Panel Mounting Socket	2413B	840
		Plug with inclined Handle	213B	820
30A, 415V	5	Panel Mounting Socket	2417B	875
		Plug with inclined Handle	217B	855

Note : *Loose Conduit Box Straight (Cat. No. 9J101) MRP - Rs. 295/- each
 *Spare Handle Inclined (Cat. No. 9J108) MRP -Rs. 145/- each.

HSN Code : 8538

Plugs & Sockets



Heavy Duty Metal Plug & Sockets Type 'DS' - 5 Pin (with Integral Switching Device)

HSN Code : 8536

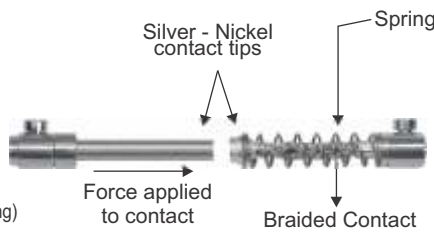
Rating	Pins	Type	Cat No.	MRP[₹]
16A, 415V	5	Plug	DS1A7A1	1245
		Socket	DS1B7A1	1550
		Handle Assembly	SP91PH	240
32A, 415V	5	Plug	DS3A7A1	2070
		Socket	DS3B7A1	2580
		Handle Assembly	SP93PH	250
63A, 415V	5	Plug	DS6A7A1	3380
		Socket	DS6B7A1	4400
		Handle Assembly	SP96PH	355
125A, 415V	5	Plug	DS9A7A1	9760
		Socket	DS9B7A1	13945
		Conduit Box	SP99WB	7115
		Handle Assembly	SP99PH	800

Note : Power Receptacles with or without SFU/SDFU/MCB/MCCB having loop-in / loop-out facility is available on request.



- Range from 16A to 125 A
- 5 Pin configuration (3P+N+E)
- Plug cannot come out in ON condition (Integral Interlocking)

- Spring loaded Butt type contacts
- Self aligning and self wiping



Quick Disconnect



- Self aligning self wiping
- Spring loaded for consistent pressure
- Silver nickle material for extremely low temperature rise

Safety Disk



Vibration proof termination



Plug in Relays-ASP Series



Plug In Relays - Universal (ASPU)

HSN Code - 8536



- Type ASPU
- 10 Amp (Res) Contact rating
- 2 Change over / 3 Change over

Coil Voltage	Without latch / Manual Testing		With latch / Manual Testing		Contacts	Lot Size
	Cat. No.	MRP [₹]	Cat. No.	MRP [₹]		
8 Pin - contact rating 10A (Res.) at 24V DC/240V AC, LED Indication						
12V DC	ASPU212DLE	370	ASPU212DLET	535	2 C/O	10
24V DC	ASPU224DLE	365	ASPU224DLET	535		
110V DC	ASPU2110DLE	405	ASPU2110DLET	560		
12V AC	ASPU212ALE	405	ASPU212ALET	590		
24V AC	ASPU224ALE	435	ASPU224ALET	580		
110V AC	ASPU2110ALE	430	ASPU2110ALET	575		
240V AC	ASPU2240ALE	470	ASPU2240ALET	635		
11 Pin - contact rating 10A (Res.) at 24V DC/240V AC, LED Indication						
12V DC	ASPU312DLE	450	ASPU312DLET	560	3 C/O	10
24V DC	ASPU324DLE	440	ASPU324DLET	575		
110V DC	ASPU3110DLE	475	ASPU3110DLET	625		
24V AC	ASPU324ALE	495	ASPU324ALET	635		
110V AC	ASPU3110ALE	490	ASPU3110ALET	645		
240V AC	ASPU3240ALE	520	ASPU3240ALET	680		

Plug In Relays - Universal (ASPS)

HSN Code - 8536



- Type ASPS
- 5 Amp (Res) Contact rating
- 2 Change over / 3 Change over

Coil Voltage	Cat. No.	Contacts	MRP [₹]	Lot Size
8 Pin - contact rating 5A (Res.) at 24V DC/240V AC, LED Indication				
12V DC	ASPS212DLE	2 C/O	330	10
24V DC	ASPS224DLE		330	
48V DC	ASPS248DLE		360	
110V DC	ASPS2110DLE		375	
12V AC	ASPS212ALE		355	
24V AC	ASPS224ALE		360	
110V AC	ASPS2110ALE		355	
240V AC	ASPS2240ALE		405	
11 Pin - contact rating 5A (Res.) at 24V DC/240V AC, LED Indication				
12V DC	ASPS312DLE	3 C/O	405	10
24V DC	ASPS324DLE		405	
48V DC	ASPS348DLE		480	
110V DC	ASPS3110DLE		460	
24V AC	ASPS324ALE		390	
110V AC	ASPS3110ALE		405	
240V AC	ASPS3240ALE		455	

Sockets for ASPU / ASPS Plug in Relay

HSN Code - 8538

Cat. No.	Type	MRP [₹]	Lot Size
10A, 240V AC, Screw Terminals, 35mm DIN Rail Mounting			
ASSU11	SOCKET 11 PIN FOR ASPS/ASPU Relay	195	10
ASSU8	SOCKET 8 PIN FOR ASPS/ASPU Relay	150	

* For price of other coil voltage, please contact our nearest sales office.

Plug in Relays-ASP Series.....



- Type ASPM
- 5 Amp (Res) Contact rating
- 2 Change over / 4 Change over

Plug In Relays - Miniature (ASPM)

HSN Code - 8536

Coil Voltage	Cat. No.	Contacts	MRP[₹]	Lot Size
14 Pin - contact rating 5A (Res.) at 24V DC/240V AC, LED Indication				
12V DC	ASPM412DLE	4 C/O	295	20
24V DC	ASPM424DLE		295	
48V DC	ASPM448DLE		300	
110V DC	ASPM4110DLE		300	
24V AC	ASPM424ALE		320	
110V AC	ASPM4110ALE		330	
240V AC	ASPM4240ALE		330	
8 Pin - contact rating 5A (Res.) at 24V DC/240V AC, LED Indication				
12V DC	ASPM212DLE	2 C/O	250	20
24V DC	ASPM224DLE		250	
48V DC	ASPM248DLE		295	
110V DC	ASPM2110DLE		295	
24V AC	ASPM224ALE		295	
110V AC	ASPM2110ALE		295	
240V AC	ASPM2240ALE		295	

Sockets - for ASPM Plug in Relay

HSN Code - 8538

Cat. No.	Type	MRP[₹]	Lot Size
5A, 240V AC, Screw Terminals, 35mm DIN Rail Mounting			
ASSM14	SOCKET 14 PIN FOR ASPM Relay	225	20
ASSM8	SOCKET 8 PIN FOR ASPM Relay	160	

* For price of other coil voltage, please contact our nearest sales office.



Price List

General Terms & Conditions

Prices are subject to change without any prior notice and will be applicable as prevailing at the time of dispatch.

- The prices are ex-works basis..
- The prices given in this list are effective as on date and are subject to change without notice.
- The List Prices (LP) mentioned are exclusive of GST.
- The duties, taxes and other statutory levies are based on rates prevailing at the time of billing. Any subsequent revision of those rates having retrospective effective shall be to customer's account.
- In case where any GST exemption has been claimed, the purchaser is responsible for providing the necessary GST exemption form within the specified period, failing which the purchaser would be liable for the payment of full GST plus applicable interest and penalties
- All Prices are in Indian Rupees (₹).
- Alteration made after receipt of confirmation of order are subject to price & delivery revisions and any other expenses or levies
- The dispute, if any, will be resolved mutually by discussion. However, if no settlement is forthcoming then, the Courts at New Delhi shall only have territorial jurisdiction to hear and decide the dispute.

Warranty

BCH Products Ultra Power ACBs, MCCBs - XA, XB & XG range:

These products are warranted, against manufacturing defects for a period of 18* months from the date of invoice, subject to the provision of proper usage and does not cover defects arising out of fire, accident, inefficient maintenance, faulty operation and willful or accidental damage. It also does not covers damage to power electronic components caused predominantly due to higher temperature or over voltages. The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.

Other range of BCH Products:

These products are warranted, against manufacturing defects for a period of 18* months from the date of invoicing & 24 months from date of manufacturing whichever is later subject to the provision of proper usage and does not cover defects arising out of fire, accident, inefficient maintenance, faulty operation and willful or accidental damage. The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.

* Proof of purchase to be retained to avail warranty.

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