

OUR PRODUCT RANGE CATALOGUE



Over 50 years of unmatched quality products

MCB / MCCB / ELCB
OIL STARTERS
OIL PANELS
AIR STARTERS
CONTACTERS
AIR PANELS
MAIN SWITCHES
REVERSING SWITCHES
PREVENTORS
AMMETER & VOLTMETER
KVAR
ENERGY STATIC METERS
FANS
MONOBLOCK
SUBMERSIBLE PUMP
ELECTRIC MOTOR
AUTOMATIC STORAGE &
WATER HEATERS
WATER PURIFIER
AIR COOLER





Leading the way

ELECTRICAL DIVISION

MCB / MCCB / ELCB
OIL STARTERS
OIL PANELS
AIR STARTERS
CONTACTERS
AIR PANELS
MAIN SWITCHES
REVERSING SWITCHES
PREVENTORS
AMMETER & VOLTMETER
KVAR
ENERGY STATIC METERS
FANS
MONOBLOCK
SUBMERSIBLE PUMP
ELECTRIC MOTOR
AUTOMATIC STORAGE &
WATER HEATERS
WATER PURIFIER
AIR COOLER



Natural Gas Division

**Pipeline Project,
CNG Pumps.**

Building & Construction

**Township development,
and SEZ (Special Economic Zone)
Shopping Mall**



Quality Policy	2
Introduction	3
Miniature Circuit Breakers MCB/ELCB+MCB/RCCBS	4-6
Distribution Board (DB's)	7-8
Plugs & Sockets	9
MCCB	10
Oil Motor starters	11-21
Oil Control Panels	22-23
Air break motor starter	24-27
Contactors	28
Submersible control panels	29-30
Main Switches	31
L.T. Control switches/reversing switches	32
Preventors	33
Ammeter & Voltmeter	34
Capacitors	35
Energy Static Meters	36-41
Fans	42-45
Monoblock pumps/Submersible pump	46-47
Electric Motor	47
Automatic Storage & Water Heaters	48
Water purifier/Air cooler	49



Quality Policy

SKN-BENTEX GROUP provides continuous innovation, application of latest technology & regular feed back from customers to improve quality at all levels.

Quality is an intergal part of our business management and is the essence of our products.

At **SKN-BENTEX** **QUALITY IS A PASSION.**

Starting from the stage of raw material to finished products, no compromise is ever made at any stage towards quality as our motto is to provide the best quality and zero defect products to our customers.

At **SKN-BENTEX** simple rule on quality is to fulfill the expectation of the customers and to be number one in customer satisfaction

KAPIL CHOPRA
(Managing Director)



KAPIL CHOPRA (C.M.D.)
FOUNDER PRESIDENT & CHIEF PATRON
Apex Chamber of commerce & Industries



President & Chief Patron :
Apex Chamber OF commerce & Industries

Chief Patron & Ex President :
Federation of Delhi Small Industries Association

President :
Naraina CETP Society

Chairman :
ITI (Pusa Campus) & sir CV Raman I.T.I. Dheerpur Delhi

Chairman :
Property Tax Action Committee of Delhi

Vice Chairman :
UVCT (Charitable Trust)

Ex President :
Naraina Industries Association



An Explosive Growth Record

SKN-BENTEX has the most reputed & trusted name in the field of manufacture of electrical devices with latest international design & technology keeping in view the best quality standards. SKN-BENTEX GROUP needs no introduction, as it is a well known name in the field of Motor Starters, Switchgears products, Circuit breaker, Fans, Pumps & Meters, marketed by constantly creating innovative solution & upgrading the products to meet the ever changing need of the discerning market.

SKN-BENTEX GROUP's products are at the fore front of innovation in industrial and agricultural field for measurement, protection and control of electricity. We being the pioneers and leaders in the field of manufacture electrical devices with latest international design and technology keeping in view the best quality standards. SKN-BENTEX GROUP has a rich history of success, which has been achieved through enterprise, endeavors, dedication, team work and sincere service of pride in result oriented performance. Our single motto is to produce quality product and ensure total customer satisfaction & value for money has paid rich dividends. The group companies have adopted International Standard and have been certified for ISO-9001 certification from British Standards Institution (BSI) accredited by RVA Dutch Council & UKAS Quality Management. The company has a nation-wide marketing network having H.O. at Delhi. Our products are marketed through our 500 strong dealers all over India. A separate after-sales & service cell provides prompt service. The products are being exported to many countries across the world.

Besides this, SKN-BENTEX GROUP is engaged in the field of Real Estate and is developing SEZ. Recently the group has embarked in city gas distribution in Haryana & Rajasthan. Our 4 units located in Naraina industrial area (New Delhi) & one in Roorkee (Uttaranchal)



MCB's

SKN - BENTEX GROUP has a leading name in the Indian Electrical market for manufacturing the ultimate & leading protection devices in electricals.

BENTEX - Linger SKN MCB is a product of **SKN - BENTEX** Group. **BENTEX-Linger SKN** MCB design is based on high performance thermal / magnetic current limiting principal, for 10kA breaking capacity for full range of 0.5-100 Amp, 240/415V AC supply for single phase & three phase.

SKN - BENTEX Group is an ISO certified Co. and quality systems are governed by ISO 9001-2008

BENTEX - Linger SKN MCB, is an advanced technology Miniature Circuit Breaker, specially designed to control and protect all types of Electrical installations such as Domestic, Commercial and Industrial.

BENTEX-Linger SKN MCB safeguards the installations against damage resulting from short circuit fault and circuit overloads and also serves unique dual purpose of both a switch as well as fuse. **BENTEX-Linger SKN** MCB's are conforming to IS 8828-96. Superseed by IS/IEC 60898-1:2002

BENTEX-Linger SKN MCB's are covering Entire range of:

B Type (6 Amp. to 40A),

C Type (0.5 to 100 Amps)

Isolators (40 A to 100 Amp.)

BENTEX -Linger SKN MCB's are based on internationally accepted principal of "CURRENT LIMITING".

B Type This series is specially suitable for protection of equipment like Ovens, GLS lamps, Geysers and general electrical lighting systems. The magnetic tripping of the **B type** MCB starts above 3 times of the rated current. **C Type** MCB's are designed to protect circuits with inductive loads like motor S. generator etc. The magnetic tripping commences above 5 times the rated current..

ISO 9001- 2008 CERTIFIED CO.



Salient Features

- Conforms to latest standards IS/IEC 60898-1:2002
- Current limiting design
- Fire Retardant material
- Energy saving
- Shock proof & impact resistant
- High breaking capacity
- Quick break & make mechanism
- Angular vents
- Superior contact material
- DIN Rail mounted
- Overload and short-circuit protection





Technical Specification of BENTEX-Linger SKN MCB

- Specification : SKN MCB conforming to IS/8828-1996
Supercede by IS/IEC 60898-1:2002
- Models : SP, SPN, DP, TP, TPN, & FP
1-pole, 1-pole+N, 2 Poles, 3 Poles, 3 Poles+N, & 4 Poles
- Rated Current : 0.5, 1, 1.6, 2, 2.5, 3, 4.5, 6, 8, 10, 13, 16, 20, 25, 32, 40, 63A, 80A, 100A
- Rated Voltage : 240/415 Volts AC
- Rated Frequency : 50 Hz
- Characteristics : 'B' Type for 'C' Type
- Ambient Temp : 30°C
- Housing : Glass fibre reinforced Polyester
- Breaking Capacity : 10 K Amps as per IS/IEC 60898-1:2002
- Terminals : 25 mm²



Current Limiting principal ensures low value of peak current, cut-off and minimum let through energy I^2t .
Low-cut off current reduces electromagnetic stress and damage to contact.

Trip Free Mechanism

Prevents MCB from being held 'ON', thus provides safety if knob is locked in 'ON' position.



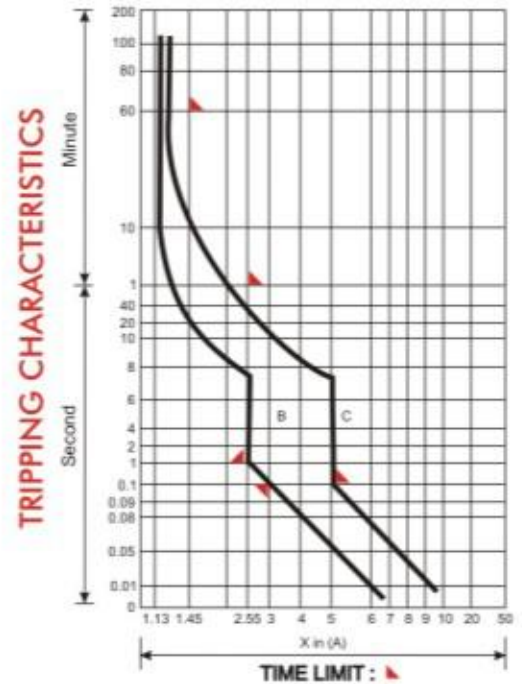
Thermal Tripping

As per IS:8828:96	No Tripping Current	Tripping Current	Time Limits	Hold Current	Trip Current	Time Limits
B Curve	1.13 I_N		$\leq 1h$	3 X I_N	5 X I_N	$> 0.1s$
		1.45 X I_N	$< 1h$			$< 0.1s$
C Curve	1.13 X I_N		$\leq 1h$	5 X I_N	10 X I_N	$\leq 0.1s$
		1.45 X I_N	$< 1h$			$< 0.1s$
		2.55 x I_N				$1s < t < 60s$ for $I_N \leq 32A$ $1s < t < 120s$ for $I_N > 32A$




Power Loss Per Pole in Watt

Rated Current in	As per IS/IEC 60898-1:2002	Bentex-Linger SKN
<10	3.00W	1.5W
10 < I _n < 16	3.50W	2.5W
16 < I _n < 25	4.50W	3.0W
25 < I _n < 32	6.00W	4.0W
32 < I _n < 40	7.50W	4.5W
40 < I _n < 50	9.00W	6.0W
50 < I _n < 63	13.00W	11.5W



DESIGN FEATURES

Modern manufacturing techniques, latest sophisticated equipments, good quality raw materials and well design of BENTEX - Linger  MCB's make it able to withstand upto 10 KA fault in installations.

HOUSING : The housing of MCB is injection moulded from special grade glass fibre reinforced polyester. The housing can withstand high temperature and is impact resistant.

OPERATING MECHANISM : The operating mechanism is so designed as to make it completely safe and dependable. Glass fibre reinforced body of MCB's is self lubricating to eliminate wear and tear and corrosion. The MCB's components being light in weight have low inertia thereby ensuring snap make and break. The reliability and ruggedness of the operating mechanism is thus maintained.

ARC EXTINGUISHING CHAMBER: MCB consists of a specially designed 12 plates arc chamber for achieving quicker extinguishing of the Arc generated during short circuit up to 10000 Amps.

CONTACTS : Contacts are made of silver plating. This provides definite advantages to MCB. such as low contact resistance reduced voltage drop and reduction in power loss.

MOUNTING ARRANGEMENT : MCB's can be installed on Standard [35mm] DIN Bars by a simple snap action.

TERMINAL : 16mm² [box type terminal]

MECHANICAL INTERLOCKING OF MULTIPOLE MCB'S: The tripping mechanism of all multipole MCB's is connected internally. This ensures simultaneous tripping of all poles even if the fault occurs in any one of the phases thus preventing single phasing.

MCB'S



ADVANCED TECHNOLOGY



MCB ISOLATORS

Nos. of Poles : SP, DP, TP & FP
 Rated Voltage : 240 / 415V AC 50Hz
 Current Rating : 40A, 63A, 100 Amp.

MCB CHANGEOVER

No. of Poles : DP & FP
 Rated Voltage : 240 / 415V AC 50 Hz
 Current Rating : 25 Amp. & 40 Amp.

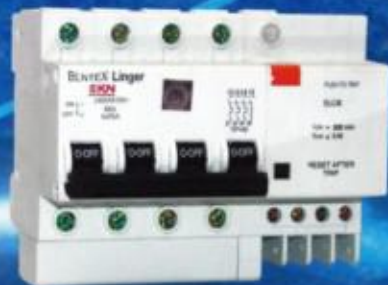


BENTEX-Linger SKN TINY TRIP SWITCHES

TYPE: B-16 / B-20 (240V-50z)

Provides additional protection against earth fault thereby giving safety / protection against fire, energy wasting etc.

Due to earth leakage



BENTEX-Linger SKN (MCB+ELCB)

Miniature Circuit Breaker + Earth Leakage Circuit Breaker As per standard : IS12640 / 2001

MCB+ELCB Provides additional protection against earth fault thereby giving safety / protection against fire, energy wasting etc. due to earth leakage

SALIENT FEATURE

- 1) High sensitivity (30mA) earth Leakage Protection.
- 2) Easy Snap - on DIN Rail Mounting
- 3) Available in 2 / 4 pole

Technical Specification of MCB+ELCB

Current Rating : 16A, 25A, 32A, 40A & 63A
 Rated Tripping Current : 30mA, 100mA, 300mA
 Rated Voltage : Ac 240v for 2 poles, 415v for 4 poles
 Tripping time in earth : Less than 50ms fault condition
 Frequency : 50 Hz



EARTH LEAKAGE CIRCUIT BREAKER / RESIDUAL CURRENT CIRCUIT BREAKER

As per standard	: IS 12640/2000
Rated Voltage	: AC 240v (2pole), 415v (4pole)
Rated Current	: 16A, 25A, 32A, 40A, 63A
Leakage Current	: 30mA, 100mA, 300mA.
Frequency	: 50Hz
Tripping Time	: Less than 50 m.sec.

Note :

A test button is incorporated in each MCB + ELCB & RCCB/ELCB to enable the electrical and mechanical operation of the device to be checked. It is advised that MCB + ELCB & RCCB is tested periodically

MCB + ELCB / RCCB /ELCB PROTECTS

1. AGAINST INDIRECT HUMAN CONTACT
2. AGAINST DIRECT HUMAN CONTACT.
3. EARTH FAULTS DUE TO CORROSION
4. PROTECTION AGAINST FIRE DUE TO ELECTRICAL FAULTS

DISTRIBUTION BOARD

TYPE : BS (SPN FOR SINGLE PHASE SUPPLY)

SPN 4way	- 4 nos. MCBs
SPN Bway	- 6 nos. MCBs
SPN Bway	- 8 nos. MCBs
SPN 12way	-12 nos. MCBs
SPN 16way	-16 nos. MCBs

Type : BT (TPN for three phase supply)

TPN 4way	- 4 nos. MCBs (Each Phase)
TPN Bway	- 6 nos. MCBs (Each Phase)
TPN Bway	- 8 nos. MCBs (Each Phase)
TPN 12way	-12 nos. MCBs (Each Phase)

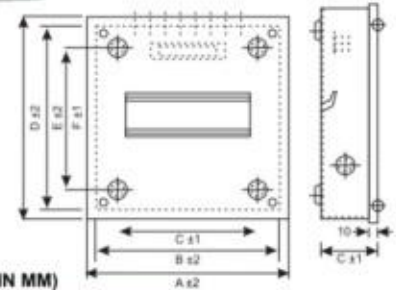


Plug & socket/Distribution board



BENTEX-Linger SKN BLP

(PLASTIC ENCLOSURE)	L	H	W
- 1 or 2 way - 1 pole & 2 pole	117.5	62	43.5
- 3 or 4 way - 3 pole & 4 pole	117.5	62	88.5
(SHEET STEEL ENCLOSURE)	L	H	W
- 1 or 2 way - 1 pole & 2 pole	156	63.5	67
- 3 or 4 way - 3 pole & 4 pole	154.5	64.5	110.5



Technical specification (Dimensions in mm)

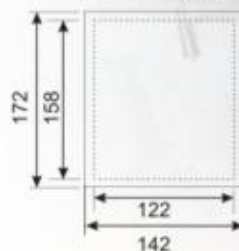
(ALL DIMENSIONS IN MM)

Type	Ways	Surface Mounting						
		A	B	C	D	E	F	G
BS-4	SPN 4	155	147	96	192	185	120	63
BS-8	SPN 8	195	185	138	192	185	120	63
BS-12	SPN 12	270	262	214	192	185	120	63
BS-18	SPN 16	345	338	290	192	185	120	63
BT-4	TPN 4	270	258	165	388	380	292	97
BT-6	TPN 8	350	335	237	388	380	292	97
BT-8	TPN 8	422	410	314	388	380	292	97
BT-12	TPN 12	490	485	385	388	380	292	97

PLUG & SOCKET DISTRIBUTION BOARD

Type : BPSD/SP & BPSD/TP
 Material : Steel Sheet Fabrication
 Single Phase : 10A & 20 Amp. (SP)
 Three Phase : 20 Amp. & 30 Amp. (TP)
 Note : - Specially used for Air Conditioner

ALL DIMENSIONS IN MM



METAL CLAD PLUG & SOCKET

Range
 10 Amp. & 20 Amp. (SP)
 20 Amp. & 30 Amp. (TP)

PLUGS & SOCKETS

Cat. Ref.	Description
240 Volts, 2 Pole and Scrapping Earth	
SP 10	10 Amps Plug
SS 10	10 Amps Socket with Cap & Chain
SP 20	20 Amps Plug
SS 20	20 Amps Socket with Cap & Chain
440 VOLTS, 3 POLE AND SCRAPPING EARTH	
TP20	20 Amps Plug
TS20	20 Amps Socket with Cap & Chain
TP32	32 Amps Plug
TS32	32 Amps Socket with Cap & Chain



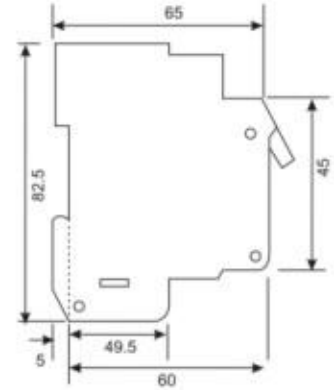


"C" series MCB is used for all Motor Applications

Load Selector Chart

For household application

Appliance	Capacity watt (Load) (240 VAC lph)	Current Rating of MCB	Type of MCB
Air Conditioner	1.0 tonnes	16A	"C" series
	1.5 tonnes	25A	"C" series
	2.0 tonnes	32A	"C" series
Refrigerator	165 litres	2A	"C" series
	350 litres	4A	"C" series
Oven cum Griller	4500W	25A	"B" series
	1750W	10A	"B" series
Oven only	750W	6A	"B" series
Hot plate only	2000W	10A	"B" series
Room Heater	1000W	6A	"B" series
	2000W	10A	"B" series
Washing Machine	300W	4A	"C" series
Washing Machine (With heater)	1300W	8A	"C" series
Water Heater (Storage/Instant)	1000W	6A	"B" series
	2000W	10A	"B" series
	6000W	32A	"B" series
Electric Iron	750W	6A	"B" series
	1250W	8A	"B" series
Auto Toaster (2 Slice)	1200W	6A	"B" series
	1500W	10A	"B" series



For Motor applications (Three phase)

Motor	KW	MCB Rating	
		Star Delta	DOL
1.0	0.75	-	2A
1.5	1.10	-	3A
2.0	1.50	-	4A
3.0	2.25	-	6A
5.0	3.75	10A	10A
6.0	4.50	10A	10A
7.5	5.50	16A	16A
10.0	7.50	16A	16A
12.5	9.30	20A	20A
15.0	11.30	25A	25A
17.5	13.00	25A	25A
20.0	15.00	32A	40A
25.0	18.50	40A	50A
30.0	22.50	50A	50A
35.0	26.00	63A	63A



MOULDED CASE CIRCUIT BREAKERS

BENTEX-Linger SKN Moulded Case Circuit Breakers are designed for circuit protection of low voltage distribution systems. They are suitable for applications as main breakers and for protection of branch and feeder circuits and connected equipment. These MCCBs provide overload & short circuit protection for all circuit elements such as cables, motors, starters and any other load, they are designed for use in switch boards control centers, panel boards, combination starters & separate individual enclosures. In these various enclosures, they suit the requirements of lighting distribution and other power circuits also.

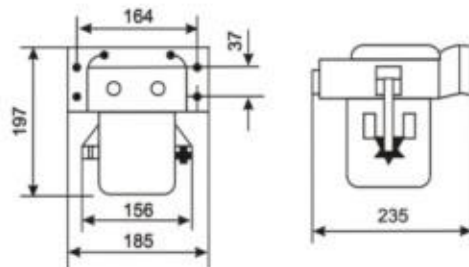
TECHNICAL SPECIFICATIONS

Frame		BM-100	BM-250	BM-400	BM-600	BM-800
Pole		3 4	3 4	3 4	3 4	3 4
Rated current (Amps.)						
Ambient Temp						
40°C for general use		15,20,30,40	125,150,175	250,300	500,600	700,800
40°C for marine use		50, 60, 75, 100	200, 225, 250	350, 400 V		
Related Insulation						
Voltage UL (Volts)	AC	600	600	600	600	600
	DC	250	250	250	250	250
Rated	AC 550V	7.5	10	18	22	22
Interrupting						
Capacity	AC 460 V	10	15	22	30	30
(KA)	AC 220 V	25	25	35	42	42
	DC 250 V	10	10	10	10	10



DIRECT-ON - LINE PUSH BUTTON OIL IMMERSED MOTOR STARTER (5 TO 20 HP) TYPE : BOI CI/BOI(S)

SKM Starter is ruggedly constructed, totally enclosed and fixed in cast iron sheet metal frame for wall mounting. Conduit holes are provided for cable entry from top and bottom. All incoming and outgoing terminals, conduit entries are easily accessible from top of the starter. An easily removable cover made of sheet metal completely encloses the overload relays and connection terminals to ensure protection against dust and weather. There is provision for fitting pedestal Ammeter on the top of the starter. Oil tank, made of deep drawn sheet and fixed with the lower part of the cast ironsheet metal frame, can be easily removed by loosening round nuts from the left and right sides. Parts are easily accessible for cleaning, setting and replacement.



(ALL DIMENSIONS IN MM)

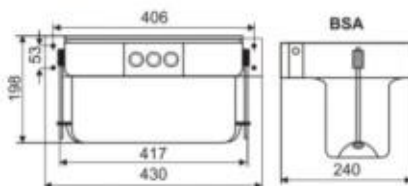
TECHNICAL SPECIFICATION		
400 VOLTS		3 PHASE
TYPE	H.P.	R. RANGE
BOI	5.0	6.0 – 10A
BOI	7.5	9.0 – 14A
BOI	10.0	13.0 – 21A
BOI	15.0	20.0 – 32A
BOI	20.0	25.0 – 35A



SEMI AUTOMATIC STAR DELTA OIL IMMERSED MOTOR STARTER (7.5 TO 40 HP) TYPE : BSA CI/BSA(S)

SKM Starter is ruggedly constructed, totally enclosed and fixed in cast ironsheet metal frame for wall mounting. An easily removable cover made of steel sheet completely encloses the overload relay and connection terminals to ensure protection from dust and weather. There is provision for fitting pedestal Ammeter on the top of the starter. Oil tank made of deep drawn sheet is fixed with the lower part of the cast ironsheet metal frame and can be easily removed by loosening nuts on the left and right hand sides. The enclosure is dust and Vermin Proof.

Press the start knob (Green) to run the motor in 'STAR' position. When the motor has attained normal speed (ie 80 to 90%), press the run knob (Yellow) to bring the motor to 'DELTA' position. Press Stop knob (Red) to stop the motor. The contactor assembly is comprised of three contactors :- one for MAIN, one for STAR and one for DELTA circuit with interlocking arrangements. All the three contactors are dipped in an oil chamber having double break robust copper contacts. The coil is machine wound, taped, vacuum impregnated and baked to suit tropical conditions. Thermal, bimetallic overload relay, triple pole accurately calibrated to provide protection against overloads.



(ALL DIMENSIONS IN MM)

TECHNICAL SPECIFICATION		
TYPE	H.P./KW	R. RANGE
BSA	7.5/5.5	6.0 – 10A
BSA	10.0/7.5	6.0 – 10A
BSA	12.5/9.3	9.0 – 14A
BSA	15.0/11	9.0 – 14A
BSA	20.0/15	13.0 – 21A
BSA	25.0/18.6	20.0 – 32A
BSA	30.0/22.5	20.0 – 32A
BSA	35.0/26.1	20.0 – 32A
BSA	40.0/30.0	30.0 – 42A
BSA	50.0/37.3	38.0 – 48A
BSA	60.0/44.7	42.0 – 54A



Motor Starters

Launches the highly advanced technology KING Motor Starter leaving all others much behind



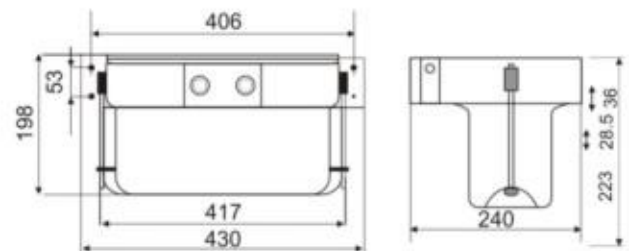
TECHNICAL SPECIFICATION		
TYPE	H.P./KW	R. RANGE
FAB	7.5/5.5	6.0 – 10A
FAB	10.0/7.5	6.0 – 10A
FAB	12.5/9.3	9.0 – 14A
FAB	15.0/11	9.0 – 14A
FAB	20.0/15	13.0 – 21A
FAB	25.0/18.6	20.0 – 32A
FAB	30.0/22.5	20.0 – 32A
FAB	35.0/26.1	20.0 – 32A
FAB	40.0/30.0	30.0 – 42A
FAB	50.0/37.3	38.0 – 48A
FAB	60.0/44.7	42.0 – 54A

Use it to find the difference....

FULLY AUTOMATIC STAR DELTA OIL IMMERSED MOTOR STARTER (7.5 TO 40 HP) TYPE: FAB CI / FAB(S)

SKN Press the start knob to run the motor in 'STAR' position. It will automatically change over to 'DELTA' by means of a time lag relay (timer) which is mounted (inside cover) at the right hand side top of the starter.

The relay (timer) is adjustable within the range 3-12 seconds or 5-20 seconds marked as MIN-MAX. Rotate the time lag relay clockwise to decrease and anti-clockwise to increase the time delay to check the starter.



(ALL DIMENSIONS IN MM)

K series

OIL KING MOTOR STARTER

SEMI AUTOMATIC KING (K-SERIES) OIL IMMERSED STAR DELTA MOTOR STARTER (7.5 TO 35 HP) TYPE: BSA-K

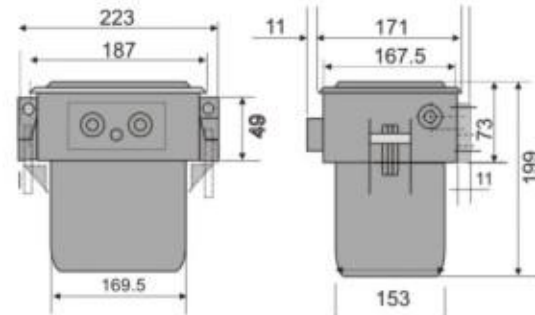
SKN Starter is ruggedly constructed, totally enclosed and fixed in sheet metal frame for wall mounting. An easily removable cover made of steel sheet completely encloses the overload relay and connection terminals to ensure protection from dust and weather. Oil tank made of deep drawn sheet is fixed with the lower part of the sheet metal frame and can be easily removed by loosening nuts on the left and right hand sides. The enclosure is dust and Vermin Proof. Press the start knob (Green) to run the motor in 'STAR' position. When the motor has attained normal speed (ie 80 to 90%), press the run knob (Yellow) to bring the motor to 'DELTA' position. Press Stop knob (Red) to stop the motor. The contactor assembly is comprised of three contactors :- one for MAIN, one for STAR and one for DELTA circuit with interlocking arrangements All the three contactors are dipped in an oil chamber having double break robust copper contacts. The coil is machine wound, taped, vacuum impregnated and baked to suit tropical conditions. Thermal, bimetallic overload relay, triple pole accurately calibrated to provide protection against overloads.



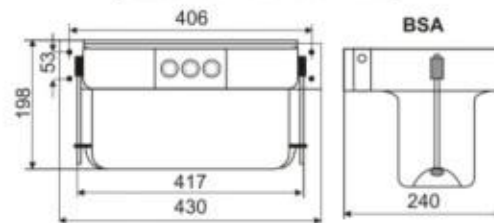
EXTRA FEATURES

1. Extra long life contact made of high electrical conductivity copper.
2. Accurate tripping against over load.
3. Low voltage design coil used i.e. 180V to 400V.
4. Easy repairing / replacement of knobs, kit-sets, coils & others.
5. Less temperature rise because of use of good conductive material

TECHNICAL SPECIFICATION		
TYPE	H.P./KW	R. RANGE
BSA K	7.5/5.5	6.0 ~ 10A
BSA K	10.0/7.5	6.0 ~ 10A
BSA K	12.5/9.3	9.0 ~ 14A
BSA K	15.0/11	9.0 ~ 14A
BSA K	20.0/15	13.0 ~ 21A
BSA K	25.0/18.6	20.0 ~ 32A
BSA K	30.0/22.5	20.0 ~ 32A
BSA K	35.0/26.1	20.0 ~ 32A



(ALL DIMENSIONS IN MM)



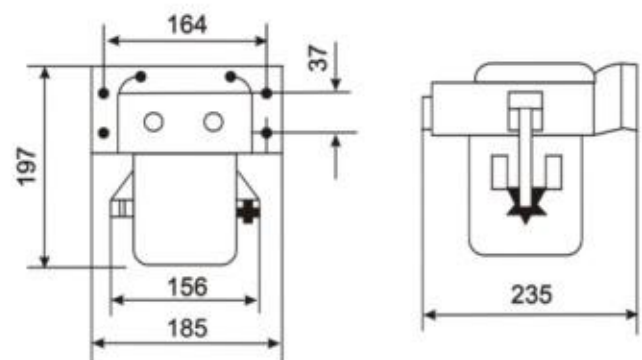
(ALL DIMENSIONS IN MM)

DIRECT- ON - LINE PUSH BUTTON OIL KING (K-SERIES) OIL IMMERSED MOTOR STARTER (5 TO 20 HP) TYPE : BOI-K

SKN Starter is ruggedly constructed, totally enclosed and fixed in sheet metal frame for wall mounting. Conduit holes are provided for cable entry from top and bottom. All incoming and outgoing terminals, conduit entries are easily accessible from top of the starter. An easily removable cover made of sheet metal completely encloses the overload relays and connection terminals to ensure protection against dust and weather. Oil tank, made of deep drawn sheet and fixed with the lower part of the sheet metal frame, can be easily removed by loosening round nuts from the left and right sides. Parts are easily accessible for cleaning, setting and replacement.

EXTRA FEATURES

1. Extra long life contact made of high electrical conductivity copper.
2. Accurate tripping against over load.
3. Low voltage design coil used i.e. 180V to 400V.
4. Easy repairing / replacement of knobs, kit-sets, coils & others.
5. Less temperature rise because of use of good conductive material



(ALL DIMENSIONS IN MM)

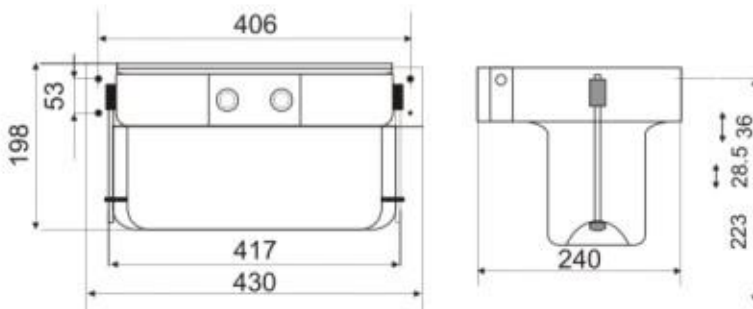
TECHNICAL SPECIFICATION		
400 VOLTS		3 PHASE
TYPE	H.P.	R. RANGE
BOI K	5.0	6.0 ~ 10A
BOI K	7.5	9.0 ~ 14A
BOI K	10.0	13.0 ~ 21A
BOI K	15.0	20.0 ~ 32A
BOI K	20.0	25.0 ~ 35A

Use it to find the difference....



EXTRA FEATURES :

1. Extra long life contact made of high electrical conductivity copper.
2. Accurate tripping against over load.
3. Low voltage design coil used i.e. 180V to 400V.
4. Easy repairing / replacement of knobs, kit-sets, coils & others.
5. Less temperature rise because of use of good conductive material



(ALL DIMENSIONS IN MM)

Launches the highly advanced technology **KING Motor Starter** leaving all others much behind



FULLY AUTOMATIC OIL KING (K-SERIES) STAR DELTA OILIMMERSED MOTOR STARTER (7.5 TO 40 HP) TYPE : FAB K

SKN Press the start knob to run the motor in 'STAR' position. It will automatically change over to 'DELTA' by means of a time lag relay (timer) which is mounted (inside cover) at the right hand side top of the starter. The relay (timer) is adjustable within the range marked as MIN-MAX. Rotate the time lag relay clockwise to decrease and anti-clockwise to increase the time delay to check the starter.

TECHNICAL SPECIFICATION		
TYPE	H.P./KW	R. RANGE
FAB K	7.5/5.5	6.0 ~ 10A
FAB K	10.0/7.5	6.0 ~ 10A
FAB K	12.5/9.3	9.0 ~ 14A
FAB K	15.0/11	9.0 ~ 14A
FAB K	20.0/15	13.0 ~ 21A
FAB K	25.0/18.6	20.0 ~ 32A
FAB K	30.0/22.5	20.0 ~ 32A
FAB K	35.0/26.1	20.0 ~ 32A

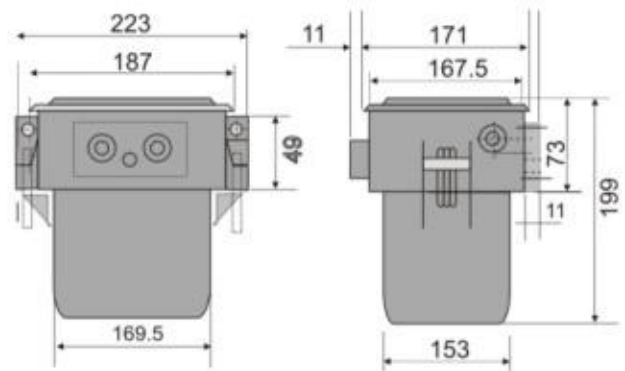
DIRECT ON LINE PUSH BUTTON OIL IMMERSED MOTOR STARTER (WITH DASH POT RELAY) (5 TO 20 HP) TYPE : BSOI (S)

SKN Motor Starter is ruggedly constructed, totally enclosed and fixed in cast iron sheet metal frame for wall mounting. Conduit holes are provided for cable entry from top and bottom. All incoming and outgoing terminals, conduit entries are easily accessible from top of the starter. An easily removable cover made of sheet metal completely encloses the overload relay and connection terminals to ensure protection from dust and weather. There is provision for fitting pedestal Ammeter on the top of the starter.

Oil tank made of deep drawn sheet and fixed with the lower part of the cast iron sheet metal frame. The tank can be easily removed by loosening round nuts from the left and right hand sides. Parts are easily accessible for cleaning, setting and replacement.



TECHNICAL SPECIFICATION		
400 VOLTS TYPE	H.P.	3 PHASE RELAY RANGE
BSOI	5	6-10A
BSOI	7.5	9-14A
BSOI	10	13-21A
BSOI	15	20-32A
BSOI	20	20-32A



(ALL DIMENSIONS IN MM)



Available in 1 lt, 1.5 lts. & 3.5 lts.



Just One Fake Oil Drop Can Seriously Damage the Starter

MOTOR STARTER OIL

SKN The pioneer and largest manufacturer of Oil Immersed Motor Starters in India introduces specially formulated **SKN** Oil for longer life and safe operation of **SKN** make Oil for Oil Immersed Motor Starters.

FEATURES OF **SKN** OIL :

- Dust and Moisture Proof.
- Provides free movement to starter
- Increases the life of contacts.
- Double filtered and freezing free.
- Reduces arc between contacts.
- Controls the rise in temperature
- Use of **SKN** Oil enhances the warranty period of **SKN** Oil Immersed Motor Starters.

PRECAUTIONS :

- Before pouring, clean the oil tank with dry cloth.
- Don't heat or boil
- Fill the oil up to the level mark.
- Fill the oil up to the level mark.
- Don't use/mix with already used oil.
- For longer life change the oil after every 8 months.
- Check Hologram Sticker for Genuine Oil.

WARNING :

Never Run Oil Immersed Starter Without OIL

Type of Starter	H.P.	Recommended Oil
BOI, BSOI, BCM, SOI, SCM	Upto 20 H.P	1.5 Ltrs.
BSA, FAB, BSAC, FABC, BMD	Upto 35 H.P	3 Ltrs.
BSD	UPTO 60 H.P	6 Ltrs.
BAT	Upto 60 H.P	24 Ltrs.
BATFA	Upto 60 H.P	10 Ltrs.
SSD, SSD-DX, SSD-S, DX, SSD-THERMAL	Upto 40/200 H.P	8/11 Ltrs.
SAT	Upto 40/60/100/200 H.P	47/63/69/83/Ltrs.
SOCB-N	Upto 200 AMP	5 Ltrs.
SOCB-D	Upto 400/600/800/1250 AMP	18/20/30/32 Ltrs.
BSOR, BSOR-HD	Upto 150/200/250/350 H.P	90/100/105/370 Ltrs.



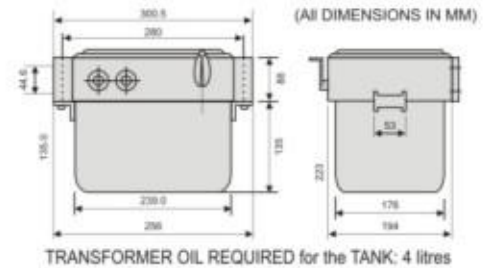
OIL IMMERSED MANUALLY OPERATED STAR - DELTA MOTOR STARTER (7.5 TO 40 HP) TYPE : BMD

SKN Starter is ruggedly constructed, totally enclosed and fixed in cast iron frame for wall mounting. An easily removable cover, made of sheet steel completely encloses the overload relay and connection terminals to ensure protection from dust and weather. Oil tank made of deep drawn sheet is fixed with the lower part of the cast iron frame and can be easily removed.

OPERATION

Press the START (Green) Knob with front handle at 'STAR' Position. Wait till motor picks up normal speed then turn front handle to DELTA position Press Red knob to stop the motor.

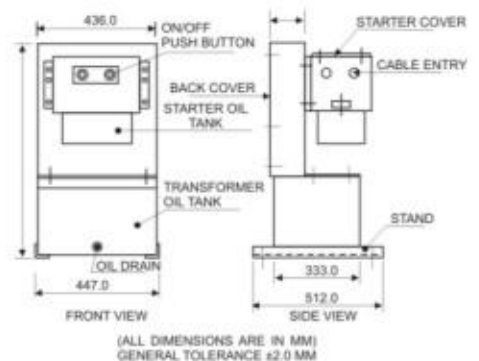
TECHNICAL SPECIFICATION		
TYPE	H. P.	R. RANGE
BMD	7.5	6.0 – 10A
BMD	10.0	6.0 – 10A
BMD	12.5	9.0 – 14A
BMD	15.0	9.0 – 14A
BMD	20.0	13.0 – 21A
BMD	25.0	20.0 – 32A
BMD	30.0	20.0 – 32A
BMD	35.0	20.0 – 32A
BMD	40.0	30.0 – 42A



FULLY AUTOMATIC AUTO TRANSFORMER OIL IMMERSED MOTOR STARTER (10 TO 50 HP) TYPE: BATFA/BATFA (P)

Fully Automatic oil immersed auto transformer motor starter is totally enclosed suitable for starting Squirrel cage induction motor upto 50 H.P. Contactor assembly is comprised of three contactors - one for main and two for auxiliary. Starter also comprises of NO VOLT coil All the three contactors are dipped in oil chamber having double break robust copper contacts. The coil is machine wound, taped vacuum impregnated and baked to suit tropical conditions.

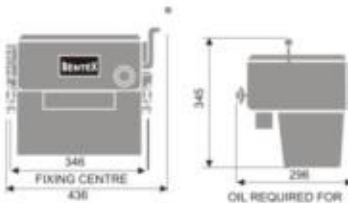
TECHNICAL SPECIFICATION		
TYPE	H. P. / KW	R. RANGE
BATFA / (P)	10/7.5	14 – 18A
-do-	15/11	21 – 26A
-do-	20/15	25 – 35A
-do-	25/18.6	32 – 43A
-do-	30/22.5	41 – 52A
-do-	35/26.1	48 – 57A
-do-	40/30	53 – 64A
-do-	45/35	60 – 72A
-do-	50/37.5	70 – 80A





TECHNICAL SPECIFICATIONS :

TYPE	H.P.	Relay Range (Amps)
BSD	10/7.5	12 - 18 A
BSD	15/11	20 - 26 A
BSD	20/15	25 - 35 A
BSD	25/18.6	32 - 42 A
BSD	30/22.5	40 - 53 A
BSD	35/26.1	45 - 55 A
BSD	40/30	55 - 65 A
BSD	45/35	61 - 71 A
BSD	50/37.5	66 - 76 A
BSD	60/44.75	78 - 90 A



(ALL DIMENSION ARE IN MM)

OIL IMMERSSED MANUALLY OPERATED STAR - DELTA MOTOR STARTERS (10 TO 60 HP) TYPE : BSD

SKN Oil Immersed Starters are designed for use on voltages up to 440V.

CONSTRUCTION

The main body and oil tank is made of sheet metal. The enclosure is both moisture and dust proof.

OPERATING MECHANISM

Star-Delta starters have a standard 'fixed' handle but can be provided with free handle as well. Free handle is a standard feature with circuit breakers.

CONTACTS

To ensure a trouble free life, these units are provided with heavy type copper contacts. These are made from hard drawn electrolytic copper section : arcing contact and main contact. The arcing contacts make before and break after the main contacts, thus confining burning to the arcing contacts. As such, the main contact scarcely calls for replacement. The arcing contact, however, can be replaced very easily with the removal of a screw.

OVERLOAD PROTECTION

The overload is of magnetic relay direct acting type with oil dashpot time lag. As a standard. Under voltage protection is provided by a closing type solenoid coil.

ACCESSORIES

The starters are generally provided with incoming and outgoing cable entry plates. Cable boxes for paper insulated cables, fully interlocked isolators can also be provided, if required.



OIL IMMERSSED MANUALLY OPERATED AUTO TRANSFORMER MOTOR STARTERS (RATING : 10 TO 60 H.P.) TYPE : BAT

SKN Auto-Transformer Starters have been designed to provide control for A.C. squirrel cage induction motors upto 60 HP where it is found necessary to minimize the starting current and attain a higher starting torque. The starter reduces the line voltage by means of an Auto - Transformer and reduces proportionately the line current taken by the motor when starting.

An Auto-Transformer Starter is the obvious choice where supply companies' Regulations limit the use of direct-on-line starters for very small motors and starting conditions do not permit the use of star/delta starters.

The Auto-Transformers are provided with tapping for 50%, 65% and 80% of the line voltage to be applied to the motor while starting as a standard practice. If necessary, other percentage tapping according to the require- ment of the customer can be provided instead of the above. The tappings are brought to an easily accessible terminal board. All Auto Transformers leaving the works have the secondary connected to the 65% tapping. If the motor does not develop the correct starting torque the voltage can be altered by changing the tapping on the secondary of the Auto-Transformer.

CONSTRUCTION : The Starter and Auto-Transformer are enclosed in separate totally enclosed dust proof metal-clad cases arranged for floor mounting. As can be seen from the illustration below, the starter is entirely separate from the Auto-Transformer. This arrangement prevents carbonized oil from the starter depositing on the Transformer mounted below, thus eliminating electrical breakdown in the transformer insulation.

CONTACTS : To ensure a trouble-free life, these units are provided with hard drawn electrolytic copper section arcing contact and main contact. The arcing contacts make before and break after the main contacts, thus confining burning to the arcing contacts. As such, the main contact scarcely calls for replacement. The arcing contact, however, can be replaced very easily, with the removal of a screw.

OVERLOAD PROTECTION : The overload is of magnetic direct acting type with oil dashpot time lag : under voltage protection is provided by closed types solenoid coil.

ACCESSORIES: The starters are generally provided with incoming and outgoing cable entry plates. Cable boxes for paper insulated cables, fully interlocked isolators can also be provided, if required. Parts are easily accessible for cleaning, setting and replacement.

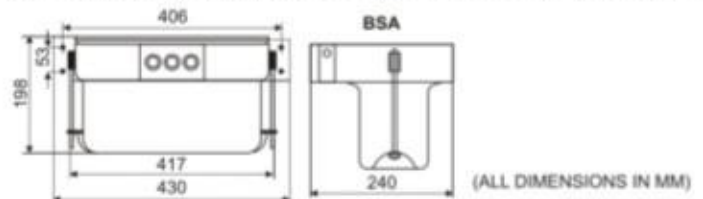


TECHNICAL SPECIFICATION		
TYPE	H.P./KW	R. RANGE
BCSA	7.5/5.5	6.0 – 10A
BCSA	10.0/7.5	6.0 – 10A
BCSA	12.5/9.3	9.0 – 14A
BCSA	15.0/11	9.0 – 14A
BCSA	20.0/15	13.0 – 21A
BCSA	25.0/18.6	20.0 – 32A
BCSA	30.0/22.5	20.0 – 32A
BCSA	35.0/26.1	20.0 – 32A
BCSA	40.0/30	30.0 – 42A

SEMI AUTOMATIC STAR DELTA OIL IMMERSED MOTOR STARTER (3 TO 40 HP) TYPE: BCSA (S)

Starter is ruggedly constructed, totally enclosed and fixed in cast iron frame for wall mounting. An easily removable cover made of steel sheet completely encloses the overload relay and connection terminals to ensure protection from dust and weather. There is provision for fitting pedestal Ammeter on the top of the starter. Oil tank made of deep drawn sheet is fixed with the lower part of the cast iron frame and can be easily removed by loosening nuts on the left and right hand sides. The enclosure is dust and Vermin Proof.

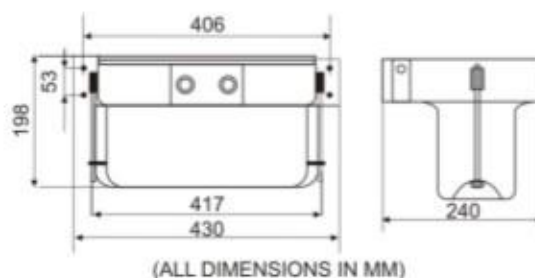
Press the start knob (Green) to run the motor in 'STAR' position. When the motor has attained normal speed, press the run knob (Yellow) to bring the motor to 'DELTA' position. Press Stop knob (Red) to stop the motor. The contactor assembly is comprised of three contactors :- one for MAIN, one for STAR and one for DELTA circuit with interlocking arrangements. The starter is conforming to IS:13947 Part 4 sec I 1993. All the three contactors are dipped in an oil chamber having double break robust copper contacts. The coil is machine wound, taped, vacuum impregnated and baked to suit tropical conditions. Thermal, bimetallic overload relay, triple pole accurately calibrated to provide protection against overloads.



TECHNICAL SPECIFICATION		
TYPE	H.P./KW	R. RANGE
BCFA	7.5/5.5	6.0 – 10A
BCFA	10.0/7.5	6.0 – 10A
BCFA	12.5/9.3	9.0 – 14A
BCFA	15.0/11	9.0 – 14A
BCFA	20.0/15	13.0 – 21A
BCFA	25.0/18.6	20.0 – 32A
BCFA	30.0/22.5	20.0 – 32A
BCFA	35.0/26.1	20.0 – 32A
BCFA	40.0/30	30.0 – 42A

FULLY AUTOMATIC STAR DELTA OIL IMMERSED MOTOR STARTER (7.5 TO 40 HP) TYPE: BCFA (S)

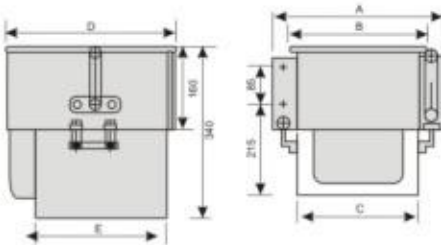
Press the start knob to run the motor in 'STAR' position. It will automatically change over to 'DELTA' by means of a time lag relay (timer) which is mounted (inside cover) at the right hand side top of the starter. The relay (timer) is adjustable within the range 3-12 seconds or 5-20 seconds marked as MIN-MAX. Rotate the time lag relay clockwise to decrease and anti-clockwise to increase the time delay to check the starter.





MANUALLY OPERATED OIL IMMERSED MANUAL STAR-DELTA MOTOR STARTER (10 TO 200 HP) TYPE : SSD/ SSD(DX)/SSD(SDX)

SKN Oil Immersed Star Delta Starter Type : SSD are designed for starting 400/440 Volts 3 Phase 50 Hz. A.C. Squirrel cage Motors upto 150 H.P. Each Starter has salient features of Revival Fixed Self aligning type Finger Contacts easy replicable tips made of 99.9% pure electrolytic hard drawn copper sections duly silver plated to avoid corrosion and pitting ensuring long life. Oil dashpot type of magnetic overload releases are calibrated and are easily adjustable type. The Starters are manually operated Star-Delta wall mounting type with provision for hand tripping by means of a lever provided on side. The starter is enclosed in a fully treated antirust proof sheet metal clad enclosure incorporating correct sequence device ensuring proper sequences of operation so that the starter is first put into the Star position for starting before a quick change over is possible to the Delta position for running.



(ALL DIMENSION IN MM)

TECHNICAL SPECIFICATION						
	A	B	C	D	E	Qty of oil req. in
For Starters (upto 40 H.P)	400	310	285	290	205	7.5 Ltrs.
For Starters (41to150 H.P)	505	415	360	310	210	11.0 Lts.



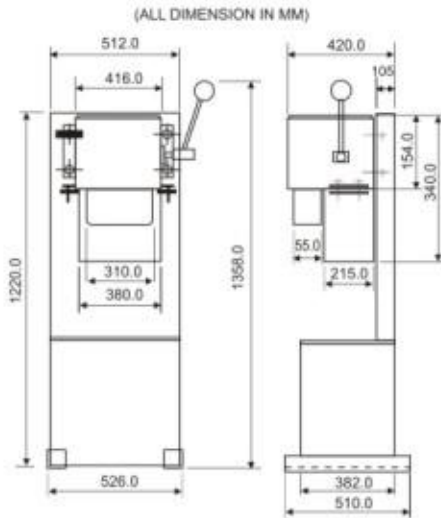
OIL IMMERSED MANUALLY OPERATED AUTO TRANSFORMER STARTERS (UPTO 200 HP)

TYPE : SAT

SKN Oil Immersed Auto Transformer Starters type 'SAT' are designed to provide control of squirrel cage A.C. Motors upto to 150 H.P. where it is found necessary to minimize the starting current and attain higher starting torque. The starter reduces the line voltage by means of an Oil immersed transformer and reduces proportionately the line current taken by the motor when starting. The auto transformer starters are ideal to install where Electricity Boards limit the use of Direct on line starters and starting conditions do not permit, the use of Star Delta Starters.

SPECIFICATIONS :

The Auto transformer starters are manually operated and are enclosed in a fully treated anti rust proof sheet metal enclosures and are floor mounting. The mounting arrangement of the starter and the auto transformer is such that it prevents carbonized oil from the starter depositing it on the transformer mounted below eliminating thereby the electrical breakdowns. The contact of the starters are of self-aligning type with easy replaceable tips made out of 99.9% pure electrolytic hard drawn copper sections, duly silver plated to avoid corrosion and pitting ensuring long life. The starters are provided with correct sequence device to prevent the starter being put direct to the running position with a provision for tripping the starter instantaneously in an emergency. Any other percentage of tappings can also be provided against specific requirements. The tappings are brought to an easy accessible terminal board.



The auto transformers at the time of despatch are connected on the secondary side to the 40% tapping if the motor does not develop the correct starting torque the voltage can be altered by changing the tapping on the secondary of the auto transformer.

OVERLOAD TRIPS : Series wound overload trip coils are provided on all three phases and are duly calibrated.

UNDER VOLTAGE COIL ASSEMBLY: The unit is provided with an under voltage Coil assembly for opening the main circuit when the voltage falls to an abnormally low value. If desired for remote tripping a push button may be connected in series with UNDER VOLTAGE coil.

SINGLE PHASE PREVENTORS : If desired this can be provided at additional cost.

CABLE : The Unit has provision for cable entry at the back / left side. A cable sealing box may be fitted if required accordingly.



RANGE (HP)	WT. IN KG. (DRY) APPX.	OIL REQUIRED IN TANK (LTR.) FOR TRANSFORMER	OIL REQUIRED FOR STARTER (LTR.)	TOTAL OIL REQUIRED (LTR.)
20 to 40	80	30	8.5	38.5
41 to 60	115	40	11.5	51.3
61 to 100	130	50	11.5	56.3
101 to 150	150	60	11.5	71.5

MANUALLY OPERATED OIL IMMERSED FLOOR MOUNTING STATOR-ROTOR STARTER WITH SKN OIL CIRCUIT BREAKER (UP TO 350 HP) TYPE: S-OSR HD

SKN Stator-Rotor Type S-OSR are manually operated floor mounting oil immersed starters. These are made in two parts:

- Stator Rotor Controller comprising of Oil Circuit Breaker.
- Rotor Circuit consisting of wire Resistance. The Stator oil circuit breaker and the Rotor circuit are electrically inter- locked. The stator Oil Circuit Breaker is provided with no volt no-close Device.

The high grade resistance wires are wound on best quality ceramic tubes so that there is no possibility of shorting of turns.

Both Stator and Rotor are electrically interlocked such that the stator controller of Oil Circuit Breaker will not be able to close unless all the resistance are in circuit. Secondly if the Rotor resistance is not fully cut off, the stator controller will trip.

OPERATION:

While operating make sure that wheel of the ROTOR is in START position. Then press push Button on the Stator, bring the handle of stator to 'ON' position, keeping the push button pressed. Turn the wheel of Rotor to Start position (Until it stops) and release the push button.

NOTE:

While floating your Enquiry or placing your order furnish the following: System Voltage, Frequency, Motor Current, Motor Rating (H.P.) Rotor Volts and Rotor Amps of the Motor.

H.P.	TYPE	QTY. OF OIL IN LTR.
Upto 41-75	S-OSR/1	90
76-150	S-OSR/1	90
151-200	S-OSR/3	100
201-250	S-OSR/4	135
251-300	S-OSR/5	370
301-350	S-OSR/6	370

MANUALLY OPERATED LT OIL CIRCUIT BREAKER (UPTO 1250 AMPS) TYPE : 'S' OCB-N/ S OCB-D

SPECIFICATION: Oil Circuit Breakers type:'S' have been designed for use on system voltage upto 415, A.C.and for a maximum current rating of 1250 AMPS. These are manufactured in both."NON DRAWOUT" as well as"HORIZONTAL DRAWOUT" pattern. The switchgears are of robust construction and suitable for Industrial use. The Oil Circuit breakers are subject to severe routine tests thereby rendering troublefree service.These are suitable for both wall mounting as well as floor mounting and necessary holes are provided at the back of the product and have two breaks per phase. The breakers are fitted with emergency manual trip and an interlock is fitted to prevent the tank being removed when the breaker is "ON".

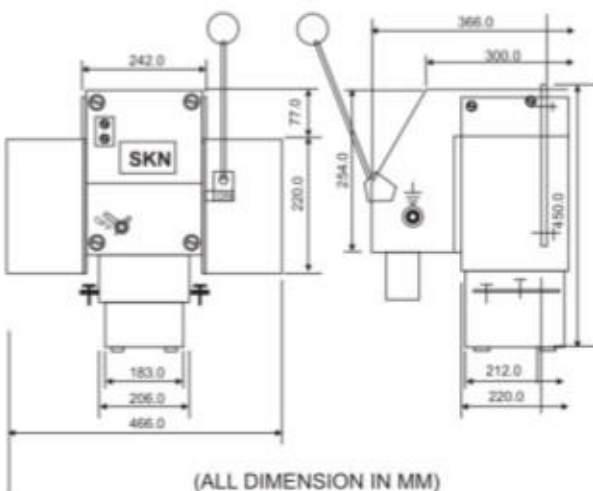
PROTECTIONS: The type, 'S1' Oil Circuit Breakers up to 200 Amps are provided with series wound trip coils calibrated for 100% to 200% with adjustable Oil Dashpot Time Lags 0-20 seconds.

Type S2 & S3 Oil Circuit Brakers up to 200 Amps are provided with series wound trip coils calibrated for 100% to 200 % with adjustable Oil Dashpot

Time Lags 0-20 Seconds. Type S2 & S3 Oil Circuit Breakers are fitted with Trip Coils operated from current transformers and are shunted with time limit fuses, adjustable oil dash pot time lags calibrated 0-20 seconds are provided on the breakers. These are also provided with contacts of V-Bar type and easily removable fixed finger and arcing contacts made out of 99.9 % electrolytic pure copper duly silver plated.



TECHNICAL SPECIFICATION				
Non Draw Out Type	Capacity in Amps in Kgs.	Qty. of Oil in Ltrs.	Approx. Weight in Kgs.	Breaking capacity at 0.4 KV in MVA
S1	100	5	25	5
S1	200	5	25	5
S2	300	18	65	5
S2	400	18	65	15
S2	600	20	70	25
S3	800	30	150	25
S3	1250	32	160	25



**SINGLE PHASE
OIL IMMERSIBLE SUBMERSIBLE
PANEL BOI SPP**

BOI(S) SP-SP Panel with condensers
BOI(S) SP with condensers +O/L Relay



Oil immersed submersible panels



**BSA MCCB (S) PANEL
(10H.P to 40H.P)**

Oil Immersed Semi Automatic Star -Delta Motor Control panel with 96mm SQ. FLASH AMP.& VOLTMeter and MCCB

10H.P.to 15 H.P. 20 H.P.
25,30,35 H.P. 40 H.P.



**BOI MCCB (S) PANEL
(5H.P to 20H.P)**

Oil Immersed Direct on line Motor Control Panel with 96mm flash Amp. & Volt meter and MCCB

5 H.P. TO 15 H.P.



**BCSA (S) MCCB Panel
(10H.P to 40H.P.)**

Oil Immersed STAR-DELTA Submersible pump panel. (With SKN-Bentex Make heavy duty semi automatic star-delta submersible pump control unit.)



**FAB MCCB (S) Panel
(10H.P to 40H.P.)**

Oil Immersed STAR-DELTA Submersible pump panel. (With SKN-Bentex Make ISI Mark fully automatic submersible pump control unit.)



**BSOI (S) MCCB Panel
(10H.P to 20H.P.)**

Oil Immersed STAR-DELTA Submersible pump panel. (With SKN-Bentex Make ISI Mark semi Automatic Star-delta submersible control unit.)



**BCFA (S) MCCB Panel
(10H.P to 40H.P.)**

Oil Immersed STAR-DELTA Submersible pump panel. (With SKN-Bentex Make heavy duty semi automatic star-delta submersible pump control unit.)

Submersible pump with KVAR



BCFA (S) Panel

Oil Immersed Star-Delta Submersible pump panel. (With SKN-Bentex Make heavy duty fully automatic star-delta submersible control unit.)

Each panel consists of

- SKN-Bentex make ISI Mark oil immersed submersible control
- Suitable rating of fuse unit (kitkat)
- Ampere meter
- Volt meter
- Selector switch
- Connection strip
- Also space provided for single phasing preventer. (SKN-Bentex make)

Oil capacity:

Name of line	Oil capacity
BOI (S) Panel	1.5 Ltr.
BSA (S) Panel	3.5 Ltr.
FAB (S) Panel	3.5 Ltr.
BCS (S) Panel	3.5 Ltr.
BSOI(S) Panel	2.3 Ltr.

MOTOR STARTER OIL

A PANEL WITH LONGER DURABILITY



BOI (S) Kit Kat PANEL (5H.P to 20H.P)

Oil Immersed Direct on line Motor Control Panel with 96mm flash Amp.& Volt meter and MCCB

5 H.P. TO 15 H.P.



BCSA (S) Kit Kat Panel (10H.P to 40H.P.)

Oil Immersed STAR-DELTA Submersible pump panel. (With SKN-Bentex Make heavy duty semi automatic star-delta submersible pump control unit.)



BSA (S) Kit Kat Panel (10H.P to 40H.P.)

Oil Immersed Direct on line Submersible pump panel. (With SKN-Bentex Make heavy duty direct on line submersible control unit with desk pot (Magnetic) Relay.)



BSOI Kit Kat Panel (10H.P to 20H.P.)

Oil Immersed STAR-DELTA Submersible pump panel. (With SKN-Bentex Make ISI Mark SEME Automatic Star-delta submersible control unit.)



FAB (S) Kit Kat Panel (10H.P to 40H.P.)

Oil Immersed STAR-DELTA Submersible pump panel. (With SKN-Bentex Make ISI Mark fully automatic submersible pump control unit.)

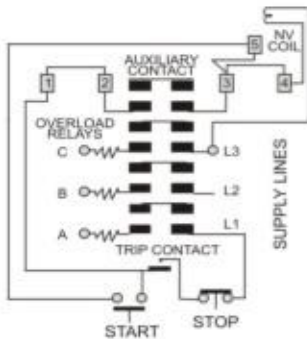
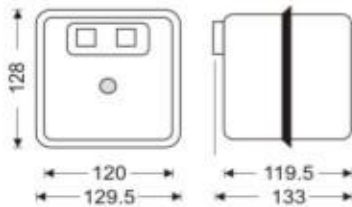


BCFA (S) Kit Kat Panel (10H.P to 40H.P.)

Oil Immersed STAR-DELTA Submersible pump panel. (With SKN-Bentex Make heavy duty semi automatic star-delta submersible pump control unit.)



All Dimensions in mm



TECHNICAL SPECIFICATION SINGLE PHASE:	
HP/KW	RELAY RANGE (Amps)
0.5/0.32	2.5- 4.0A
0.75/0.55	4.0- 6.5A
1.0/0.75	6.0- 10A
2.0/1.5	9.0- 14A
3.0/2.2	10.0- 18A

TECHNICAL SPECIFICATION THREE PHASE:	
HP/KW	RELAY RANGE (Amps)
0.5/0.32	1.0—1.6
1.0/0.75	1.5—2.5
1.5/1.12	2.5—4.0
2.0/1.5	2.5—4.0
3.0/2.2	4.0—6.5
5.0/3.7	6.0—10
7.5/5.5	9.0—14
10.0/7.5	10—18

DIRECT- ON - LINE AIR BREAK MOTOR STARTER (0.25 TO 10HP) TYPE : BDL

SKN DIRECT-ON-LINE AIR BREAK Motor Starter meets the need for high reliability in both Industrial and Agricultural applications. They are designed for DOL switching of AC Motors up to 10 HP (7.5 Kw) at 415V three phase and up to 3 HP (2.23 Kw) 220V single phase and offer comprehensive motor protection against overload, single phasing and unbalanced voltage in accordance with IS:13947 Part 4 sec I 1993. These Starters, having deep drawn sheet steel enclosure suitably treated for tropical conditions, are provided with dust excluding gasket. The push buttons are sturdy and robust. The starter can be mounted with easily removable front cover. For wiring the starter assembly can be easily brought out by loosening screws of lower base plate. Knock out rubber knobs are provided for cable entries at convenient positions. Moving contacts are of double break system for positive interruptions of circuit.

A vacuum impregnated coil and silver cadmium oxide contacts contribute to long mechanical and electrical life 0.5×10^4 mechanical operations 0.25×10^6 electrical operations at 415V.

SALIENT FEATURES :

- Every starter tested to a high degree of accuracy and is Calibrated to the strictest tolerances.
- Precision ground laminations for silent operation with each lamination individually rust protected.
- Vacuum impregnated coil.
- Silver Cadmium Oxide contacts.
- Accelerated tripping under single phase conditions.
- Ambient temperature compensation; -5°C to $+40^{\circ}\text{C}$.
- Simple adjustment of current settings.





AIR BREAK DIRECT-ON-LINE MINI MOTOR STARTER (0.25 TO 10 HP) TYPE : BAMS

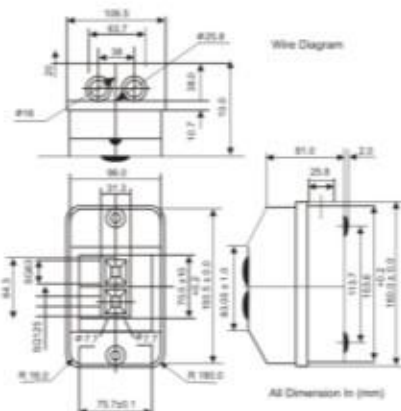
SKN Motor Starter meets the need for high reliability in both industrial and agricultural applications. They are designed for DOL switching of AC Motors upto 10 HP (7.5Kw) at 415V, Three phase and upto 3HP (2.23 KW) 220V single phase and offer comprehensive motor protection against overload, single phasing and unbalanced voltage in accordance with IS:13947 Part 4 Sec.11993. The starter unit comprises of a double break, three pole, on load switch operated by means of a toggle link mechanism. Adjustable bimetal thermal overload trips are included which can be set to follow closely the heating characteristics of the motor. The stop push and overload trips act at the toggle anchor which provides a free handle movement (i.e. the depression of the start push does not operate the switch if the stop push is depressed simultaneously or if the overload trip elements have not reset after tripping.) The fixed contacts are formed of silver cadmium oxide tips. The moving contacts are of Silver Cadmium Oxide and are spring loading. These Starters, having deep drawn sheet steel enclosure suitably treated for tropical conditions, are provided with dust excluding gasket. The push buttons are sturdy and robust. The starter can be mounted with easily removable front cover. Rubber knockouts are provided for cable entries at convenient positions.

MOUNTING

The Starter is available for surface or flush mounting. For surface mounting the interior unit is enclosed in dust protecting deep drawn sheet steel case having a removable cover and knock out for 20 mm conduit at top and bottom. The flush mounting version comprises of the interior unit attached to a face plate. The interior unit is recessed into the machine frame.

SALIENT FEATURES

- Every starter is tested to a high degree of accuracy and is calibrated to the strictest tolerances.
- Silver Cadmium Oxide contacts.
- Accelerated tripping under single phase conditions.
- Ambient temperature compensation :- -5°C to $+40^{\circ}\text{C}$
- Simple adjustments of current settings.
- Push buttons colour coded and marked with symbols.
- Start-green 'I': Stop-red 'O' (in Type BAMS)



TECHNICAL SPECIFICATION SINGLE PHASE:	
SP HP/RW	RELAY RANGE [Amps]
0.5	2.5-4A
0.75	4.0-6.5A
1.0	6.5-11A
2.0	9.0-14A
3.0	11-20A

TECHNICAL SPECIFICATION THREE PHASE:	
SP HP/RW	RELAY RANGE [Amps]
1.0H.P	1.5-2.5A
2.0H.P	2.5-4.0A
3.0H.P	4.0-6.5A
5.0H.P	6.5-11A
7.5H.P	8.0-14A
10 H.P	11-20A





MANUALLY OPERATED DIRECT ON LINE TINY MOTOR STARTER 0.25 HP TO 3 HP (SINGLE PHASE) 1HP TO 10HP (THREE PHASE) TYPE : BATS

SKN Tiny Push Button Starters are sleek in looks compact in fitting. They combine dependability with economy. This Starter is most suitable for wide voltage fluctuations.

APPLICATION

Ideally suited for motor installation e.g. in Machine Tools such as Grinders, Polishers, Lathes, Woodworking Machines, Centrifugal pumps in farms, Compressors, Air Conditioners, Refrigerators, etc.

SKN Tiny Push Button Starter can be used as current limiter for electrical installation with many equipments connected to supply; for switching and Overload protection in domestic, Industrial and commercial complexes. Start - black 'I': Stop-red 'O' (in type BATS)

TECHNICAL SPECIFICATION THREE PHASE:	
SP HP/RW	RELAY RANGE (Amps)
1.0H.P	1.5 - 2.5A
2.0H.P	2.5 - 4.0A
3.0H.P	4.0 - 6.5A
5.0H.P	6.5 - 11A
7.5H.P	8.0 - 14A
10 H.P	11 - 20A

TECHNICAL SPECIFICATION SINGLE PHASE:	
SP HP/RW	RELAY RANGE (Amps)
0.5	2.5-4A
0.75	4.0-6.5A
1.0	6.5-11A
2.0	9.0-14A
3.0	11-20A



AIR BREAK MANUALLY OPERATED STAR-DELTA MOTOR STARTER (7.5 TO 35 HP) TYPE : SDM CI/SDM(S)

SKN Air Break Manually Operated Star-Delta Motor starter is ruggedly constructed, totally enclosed and is fixed in cast iron sheet metal box for wall mounting. All incoming and outgoing terminals and conduit entries are easily accessible from top and bottom. An easy hinged cover, made of sheet metal completely encloses the system to ensure protection from dust and weather. Each starter conforms to IS : 13947 Part - 4(Sec-1) 1993.

INSTALLATION

- Assemble handle, which is packed separately with the Action Rod of the starter.
- Mount the starter on a vertical plane.
- Open cover and remove the cotton tape from the core. Clean thoroughly and check for any transit damage.
- Check the free movement of Action Rod & Handle.
- Make electrical connection as per wiring diagram ensuring that the correct size of cables are used and all the connections are tight.
- Make sure that earthing of the starter is done properly.

CONNECTION Connect starter terminal A1 B1 C1 and A2 B2 C2 to the corresponding motor terminals. Connect Starter terminals L1, L2, L3 to incoming supply lines.

OPERATION First move handle to START (Star) position. When motor picks up 80-90 % speed then turn handle to RUN (Delta) position. Press Red knob to stop the motor.

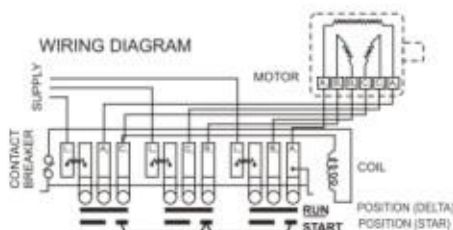
REVERSE ROTATION Interchange any two incoming supply lines.

OVERLOAD PROTECTION Overload Protection is provided by means of a triple pole thermal relay in all the starters. The tripping is Electrical three overload relays for complete protection against overload and single phasing. No Volt coil to ensure positive action even with fading Voltage

SALIENT FEATURES:

- Every starter is tested to high degree of accuracy and is calibrated to strict tolerances.
- Precision Ground laminations for silent operation with each lamination individually rust protected.
- Vacuum impregnated coil.
- Heavy duty electrolytic copper contacts contribute to long mechanical and electrical life.
- Accelerated tripping under single phase conditions.
- Ambient temperature compensation - 50 C to + 400 C.
- Simple adjustment of current settings.

TECHNICAL SPECIFICATION		
TYPE	H.P.	R.RANGE
SDM	7.5	9.0 - 14A
SDM	10.0	13.0 - 21A
SDM	12.5	13.0 - 21A
SDM	15.0	20.0 - 32A
SDM	20.0	25.0 - 35A
SDM	25.0	32.0 - 42A
SDM	30.0	38.0 - 48A
SDM	35.0	42.0 - 54A



Air Break Motor Starters



AIR BREAK DIRECT-ONLINE starters. Type BSDL are manufactured from 0.25 H.P. to 10 H.P. These starters are designed to give protection to electric Motors against overloading single phasing and locked rotor conditions of squirrel cage induction motors and power circuits, while operating over widely fluctuating voltage conditions.

CONSTRUCTION :

It is available in elegant and compact yet rugged sheet drawn enclosure with ample space for wiring. The starter can be mounted easily by removing front cover that is provided with from the accessible terminals.

The starters are housed in dust and damp protecting enclosures finished in stove enamel paint. The knock outs are provided at top and bottom for the conduit entries.

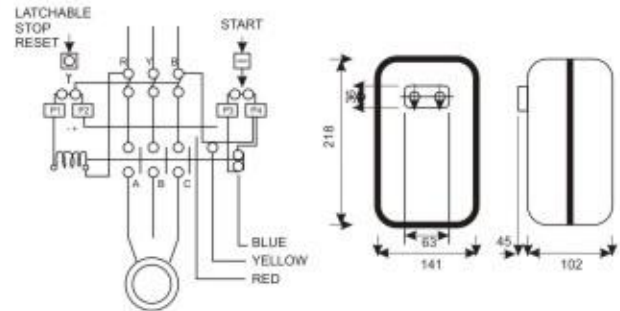
OVERLOAD RELAY :

Thermal Bimetallic overload relay is provided. After the motor has tripped owing to an overload, the relay has to be reset by operating the STOP (Red) button. The relay will reset only after the bimetal strips have cooled sufficiently.

CONTACTOR :

Air Break contactor is available for 16 amps & 25 amps current ratings. Contact system is of the double break type and dynamically engineered to eliminate contact bounce.

MOTOR RATING H.P. FOR - BSDL		
220 V	440 V	RELAY RANGE AMPS
1-ph	3-ph	1.5 - 2.5
0.25	1.0	2.5 - 4.0
0.5	1.5	2.5 - 4.0
-	2.0	2.5 - 4.0
0.75	2.5	4.0 - 6.5
-	3.0	4.0 - 6.5
1.0	-	6.0 - 10
1.5	5.0	6.0 - 10
1.5	6.0	6.0 - 10
2.0	7.5	9.0 - 14
3HP	10	13 - 21
5HP	15	20 - 32



AIR BREAK DIRECT-ONLINE starters. Type BPDF are manufactured from 10 H.P. to 20 H.P.

These starters are designed to give protection to electric Motors against overloading single phasing and locked rotor conditions of squirrel cage induction motors and power circuits, while operating over widely fluctuating voltage conditions.

CONSTRUCTION :

It is available in elegant and compact yet rugged sheet drawn enclosure with ample space for wiring. The starter can be mounted easily by removing front cover that is provided with from the accessible terminals.

The starters are housed in dust and damp protecting enclosures finished in stove enamel paint. The knock outs are provided at top and bottom for the conduit entries.

OVERLOAD RELAY :

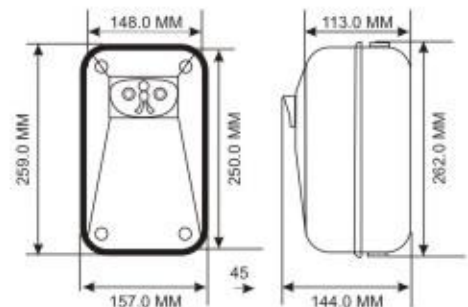
Thermal Bimetallic overload relay is provided. After the motor has tripped owing to an overload, the relay has to be reset by operating the STOP (Red) button. The relay will reset only after the bimetal strips have cooled sufficiently.

CONTACTOR :

Air Break contactor is available for 16 amps & 25 amps current ratings. Contact system is of the double break type and dynamically engineered to eliminate contact bounce.

TECHNICAL SPECIFICATION

MOTOR RATING H.P. FOR - BPDF		
TYPE	H.P.	R. RANGE
BPDF	10	13.0-21A
BPDF	15	20.0-32A
BPDF	20	28.0-42A



AIR BREAK FULLY / SEMI AUTOMATIC STAR DELTA M. STARTER (3 HP TO 25 HP) TYPE : BSDLSA, BSDLFA & BSDLFA (P)

PUSH BUTTON OPERATED Air Break fully Automatic / Semi Automatic Star Delta Motor Starters.

TYPE : BSDLFA, BSDLFA (P) and BSDLA totally enclosed, suitable for starting the squirrel cage induction motors of 3HP to 25HP, 3 Phase, 50c/s, 380V (± 15%) AC supply as per IS:13947 Part 4 Sec I 1993.

SPECIFICATIONS : CONTACTOR ASSEMBLY : The contactor assembly is comprised of three contactors:- one for MAIN, one for STAR and one for DELTA circuit with interlocking arrangements. The starter is comprised of no volt coil, timer etc. All the contactors are having double break robust silver cadmium contacts. The coil is machine wound, taped, vacuum impregnated and baked to suit tropical conditions.



OVER CURRENT RELAY :

FOR TYPE BSDLSA / BSDLSA STARTERS : Thermal, bimetallic overload relay, triple pole accurately calibrated to provide protection against overloads.

OVER CURRENT RELAY :

FOR TYPE BSDLFA (P) STARTERS : Thermal, bimetallic overload relay, triple pole accurately calibrated, differential temperature compensated between -50C to+ 400 C to provide positive protection against both overload and single phasing under all operational conditions as per IS: 13947 Part 4 Sec I 1993.

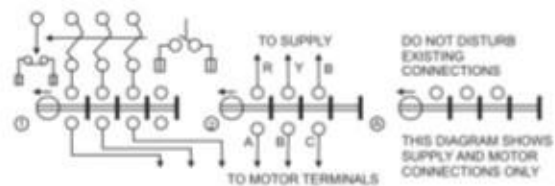
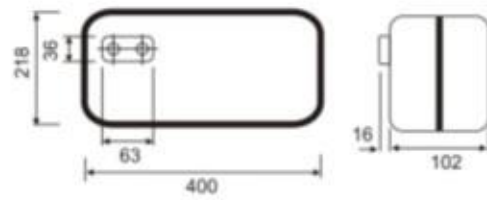
ENCLOSURE : Starter is housed in sheet steel enclosure which is chemically treated to resist corrosion. The enclosure is dust and vermin proof and conforms to IP-52 OF IS: 13947 Part I 1993.

TIMER : Bimetallic timer changes automatically from STAR to DELTA position, adjustable within the range of 4 to 20 seconds, marked as MIN-MAX, and rotate clockwise to decrease and anti clockwise to increase the time delay.

SALIENT FEATURES :

- a) The entire assembly is mounted so that it can be unscrewed and taken out for facilitating easy maintenance and repair i.e. fixed and moving contacts are readily accessible.
- b) Start and Stop push buttons with green and red knobs respectively and provided on the front of starter.
- c) Starter is suitable for operation of squirrel cage induction motors having 1500 / 3000 RPM Synchronous speed. The starter is accompanied with circuit.

RELAY RANGE FOR BSDLSA/BSDFLA/BSDFLA (P)		
415 V Range Relay (Amps.)	Motor Current	3 Phase H.P
2.5 - 4	-	3
4 - 6.5	-	5
6 - 10	-	7.5
6 - 10	-	10
9 - 15	-	12.5
9 - 15	-	15
15 - 24	-	17.5
15 - 24	-	20
15 - 24	-	22.5/25



AIR BREAK AC CONTACTORS 3 PHASE 415 V 50 Hz (SUITABLE FOR AIR BREAK SUBMERSIBLE CONTROL PANEL)



THERMAL OVERLOAD RELAYS & AIR BREAK CONTACTORS (BSDL SERIES)



AIR BREAK CONTACTORS BSDL SERIES- 16A/25A/32A



Submersible control panels

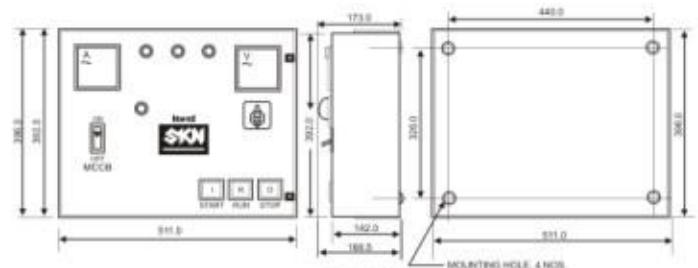


TYPE BASP

Air Break Star Delta Semi Automatic Submersible Control Panel with Single Phasing Protection
Type: BASP- 415V AC 3 Phase 50 hz



TECHNICAL DETAILS	7.5 TO 40 HP	TYPE	REAL RANGE	H.P
COIL VOLTAGE	380 V	BASP	8-10AMP	7.5
OVERLOAD RELAY	MANUALLY RESET	BASP	9-14 AMP	10
PICK UP VOLTAGE	180 TO 230 V	BASP	13-21 AMP	15
DROP OUT VOLTAGE	50 TO 60V	BASP	20-32 AMP	20
MEASUREMENT OFFERED	AMMETER VOLTMETER WITH SELECTOR SWITCH	BASP	25-35 AMP	25
PHASE INDICATING LAMPS	SUPPLY ON	BASP	25-35 AMP	30
	PUMP ON	BASP	25-35 AMP	35
AUTO PREVENTOR FULL START	10 To15 SEC	BASP	28-42 AMP	40
MCCB	63A TO 100A			



TYPE : BASP



TYPE BADL

Air Break Direct On Line Automatic Submersible Control Panel with Single Phasing Protection
Type: BADL - 415V AC 3 Phase 50 Hz

TECHNICAL DETAILS	7.5 TO 20 HP	TYPE	REAL RANGE	H.P
COIL VOLTAGE	380 V	BADL	9-14 AMP	7.5
OVERLOAD RELAY	MANUALLY RESET	BADL	13-21 AMP	10
PICK UP VOLTAGE	180 TO 230 V	BADL	20-32 AMP	15
DROP OUT VOLTAGE	50 TO 60V	BADL	25-35 AMP	20
MEASUREMENT OFFERED	AMMETER VOLTMETER WITH SELECTOR SWITCH			
PHASE INDICATING LAMPS	SUPPLY ON PUMP ON			
AUTO PREVENTOR FULL START	10 To15 SEC			
MCB TP	32A TO 63A			

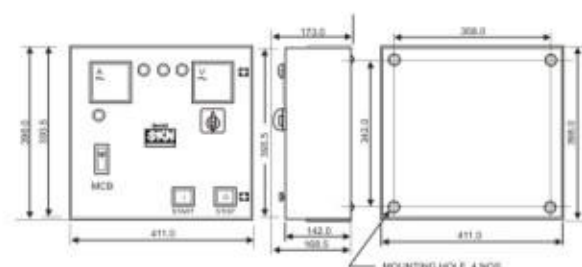


TYPE : BADL

TYPE FASP

Air Break Fully Automatic Star Delta Submersible Control Panel with Single Phasing Protection
Type: FASP-415V AC 3 Phase 50 hz

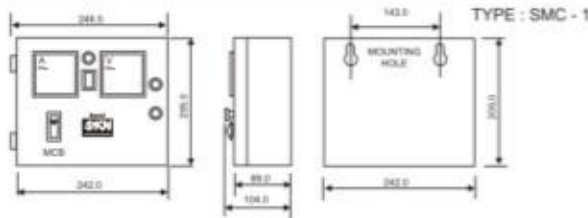
TECHNICAL DETAILS	7.5 TO 40 HP	TYPE	REAL RANGE	H.P
COIL VOLTAGE	380 V	FASP	8-10 AMP	7.5
OVERLOAD RELAY	MANUALLY RESET	FASP	9-14 AMP	10
PICK UP VOLTAGE	180 TO 230 V	FASP	13-21 AMP	15
DROP OUT VOLTAGE	50 TO 60V	FASP	20-32 AMP	20
MEASUREMENT OFFERED	AMMETER VOLTMETER WITH SELECTOR SWITCH	FASP	25-35 AMP	25
		FASP	25-35 AMP	30
PHASE INDICATING LAMPS	SUPPLY ON PUMP ON	FASP	25-35 AMP	35
AUTO PREVENTOR FULL START	10 To15 SEC	FASP	28-42 AMP	40
AUTOMATIC STAR DELTA WITH TIMER				
MCCB	63A TO 100A			



TYPE : FASP

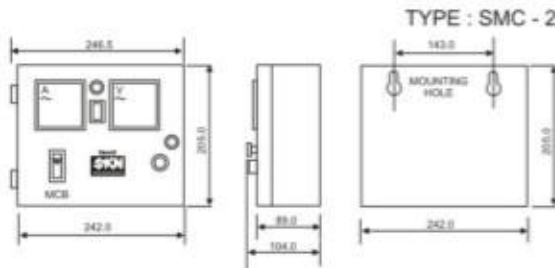
**Air Break Single Phase Submersible Panel without
contactor with - MCB-SP**
Type: SMC-1 AC -90V to 240V
For oil field submersible pump

TECHNICAL DETAILS		HP	Running Capacitor	Maximum overload	MRPRs.
COIL VOLTAGE	90V to 240V	0.5	36 MFD	7 AMP	1225.00
MEASUREMENT	AMMETER	1.0	36 MFD	10 AMP	1225.00
OFFERED	VOLT METER WITH SWITCH	1.5	50 MFD	12 AMP	1285.00
MANUALLY SWITCH	ON / OFF	2.0	72 MFD	16 AMP	1370.00
INDICATING LAMPS	SUPPLY ON				
	PUMP ON				



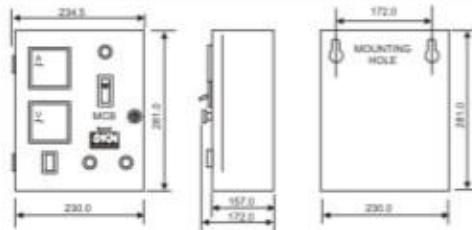
**Air Break Single Phase Without Contactor
Submersible Panel with- MCB-SP**
Type: SMC-2 AC -90V to 240V
For oil field submersible pump / water fil

TECHNICAL DETAILS		HP	Running Capacitor	Starting Capacitor	Maximum overload	MRPRs.
COIL VOLTAGE	90V to 240V	0.5	36 MFD	120/150 MFD	7 AMP	1680.00
MEASUREMENT	AMMETER	1.0	36 MFD	150/200 MFD	10 AMP	1750.00
OFFERED	VOLT METER WITH SWITCH	1.5	50 MFD	150/200 MFD	12 AMP	1900.00
MANUALLY SWITCH	ON / OFF	2.0	72 MFD	200/250 MFD	16 AMP	1950.00
INDICATING LAMPS	SUPPLY ON					
	PUMP ON					



**Air Break Single Phase With Contactor
Submersible Panel with- MCB-SP**
Type: SMC-3 AC -90V to 240V
For water field submersible pump

TECHNICAL DETAILS		HP	Running Capacitor	Starting Capacitor	Maximum overload	MRPRs.
COIL VOLTAGE	90V to 240V	1.0	50 MFD	120/150 MFD	10 AMP	2400.00
MEASUREMENT	AMMETER	1.5	50 MFD	150/200 MFD	12 AMP	2550.00
OFFERED	VOLT METER WITH SWITCH	2.0	72 MFD	200/250 MFD	16 AMP	2625.00
MANUALLY SWITCH	ON	3.0	105 MFD	250/300 MFD	27 AMP	3300.00
INDICATING LAMPS	SUPPLY ON					
	PUMP ON					



Type : SMC Single Phase Panel

Air Break for Submersible Pump Panel.

NOTE : - ALL DIMENSIONS ARE IN M.M.GENERAL TOLERANCE + 2.0 M.M.



Main Switch / Change over Switch / BUS BAR / HRC fuse switch



PORCILIEN KIT-KAT

HRC & Rewireable Kit Kat set
32A to 320A (without fuse)
(HRC KIT KAT 63A & 100A+
Rewireable KIT KAT 32A to 320A



HRC FUSE SWITCH UNIT

Double break combination fuse switch
Unit for HRC fuse (without HRC fuse)
TPN, side handled operated with sheet
Metal enclosure
Type BFS, (conforming to is:13974
(part-iii) 1993, IS/IEC 60947 part 3



CHANGEOVER SWITCH (OFF LOAD) I-O-II

DESCRIPTION
Range : 100A-1000A
Execution : FP
Rated Voltage : 415V AC
Rated insulation voltage : 660V
Utilization Category : AC-22A
Conforms to : IS - 13947 (PT-3)
:1993 IEC : 947-3



BUS BAR

Chambers 3 Phase 4 bar Heavy Duty
Copper Bar

DESCRIPTION
Range : 63A-200A
Execution : FP
Rated Voltage : 415V AC
Rated insulation voltage : 660V
Utilization Category : AC-22A
Conforms to : IS - 13947 (PT-3)
:1993 IEC : 947-3

REWIRABLE MAIN SWITCH

DESCRIPTION
Range : 16A-320A
Execution : DP/TP & TPN
Rated Voltage : 240/415V AC
Rated insulation voltage : 660V
Utilization Category : AC-22A
Conforms to : IS - 13947 (PT-3)
:1993 IEC : 947-3

SALIENT FEATURE

Side Handle operated
Door interlocking facility.
High electrical & mechanical endurance.
On/OFF position flag indicators.
Phase separators Provided.
Contacts and mechanism in enclosed
housing to avoid ingress of dust.
Compact design.



CHANGEOVER SWITCH (ON LOAD) I-O-II

DESCRIPTION
Range : 32A-100A
Execution : DP/FP
Rated Voltage : 240/415V AC
Rated insulation voltage : 660V
Utilization Category : AC-22A
Conforms to : IS - 13947 (PT-3)
:1993 IEC : 947-3



SALIENT FEATURE

Side Handle operated
Door interlocking facility.
High electrical & mechanical endurance.
On/OFF position flag indicators.
Phase separators Provided.
Contacts and mechanism in enclosed
housing to avoid ingress of dust.
Compact design.
Silver / Nickle plated Copper & Brass contacts
for high conductivity and longer life.
Quick make and break operation mechanism.
Enclosures made of CRCA sheet duly pretreated
and powder coated.

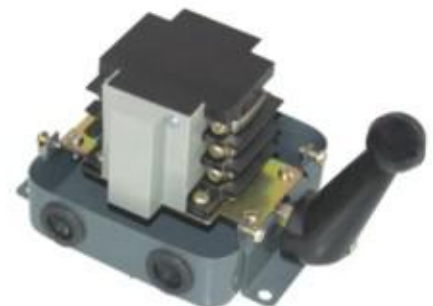
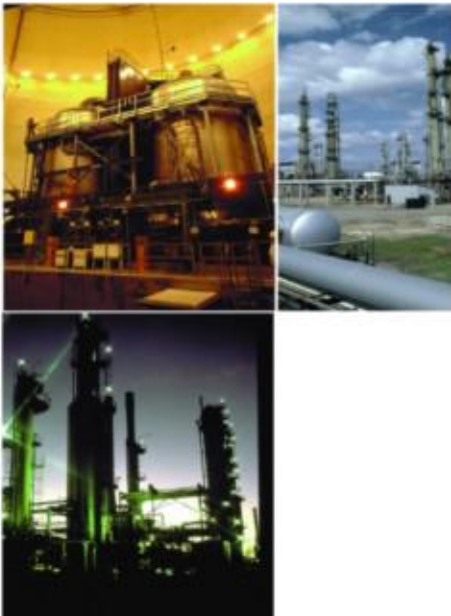
L.T. CONTROL SWITCHES 16/25/32 AMP. 415V, 50HZ

REVERSING SWITCHES CAM Type manual switches are suitable for REVERSE - FORWARD Direction Controlling and starting of three phase induction motors. Silver cadmium contacts for 25 Amp to 32 Amp. & Cadmium plated electrolytic copper contacts for 16 Amp are provided for longer life. It has life of over 5 million mechanical operations. These are available in open / enclosed forms. ON-OFF SWITCHES 16/25/32 AMPS.

These switches are suitable for direct-on-line starting & controlling 3 phase induction Motors. Silver cadmium contacts are provided for longer life.

SALIENT FEATURES

- Conform to IS : 4064-1978
- High Quality Bakelite powder is used.
- An efficient spring mechanism quick make and quick break type which minimises the arcing and hence it is suitable for on load operations.
- CAM type manual operation.
- Available in open/ enclosed forms.
- Life over 5 million mechanical operations.



ON-OFF SWITCH		
•4	A•	1•
•5	B•	2•
•6	C•	3•
←	ON	→
	OFF	ON

CONNECT :
A,B,C, TO MOTOR
1,2,3 OR 4,5,6
TO LINE

REVERSING SWITCH		
•4	A•	1•
•5	B•	2•
•6	C•	3•
←	ON	→
	OFF	FORWARD

CONNECT :
A,B,C, TO MOTOR
1,2,3 OR 4,5,6
TO LINE

CHANGE OVER SWITCH		
•4	A•	1•
•5	B•	2•
•6	C•	3•
←	OFF	→

CONNECT :
A,B,C, TO LOAD
1,2,3 OR GENERATOR
4,5,6 TO LINE

Preventors



SINGLE PHASING PREVENTOR (VARIOUS KINDS OF PROTECTION)

OVERLOADING caused by unbalanced voltage or single phasing due to fuse failure, loose connections or loss of phase from supply itself. Single phasing can be correctly detected only by sensing negative sequence components of voltage or current. These components do not contribute to power but generate motor losses. If these negative sequence components are monitored and the motor is tripped as soon as they reach the dangerous level, it will save the motor

(IS : 3842) and minimize down time.

UNBALANCED SUPPLY generate double frequency currents in motor windings causing overheating. Under voltage is particularly dangerous while starting, which also overloads the motor in continuous running. Thus for safe running of motors special protections; that keep a continuous watch on supply; are essential. **REVERSE RUNNING** of fans, pumps and certain machines due to wrong connections or reverse phase sequence endanger the motor and consequently the machine. Hence protection against reverse phasing also becomes necessary.

AUTO-SWITCH OPERATION :

BENTEX-SKN Single Phasing Preventor can be connected as 'Auto-Switch' for automatic operation (ON / OFF) during power failure. As mentioned below in No. 5 give sensing to

7, 8 & 9 before the starter (At incoming). Connect a short-link or Toggle Switch across on-push will enable Bentex Single Phasing Preventor to Work as Auto-Switch.

OUR OTHER TYPE OF MODELS

- BLC – Automatic water level controller (Two point level controller)
- BLG – Automatic water level guard (Single point level controller)
- BPG – Single phasing preventor with water level guard.

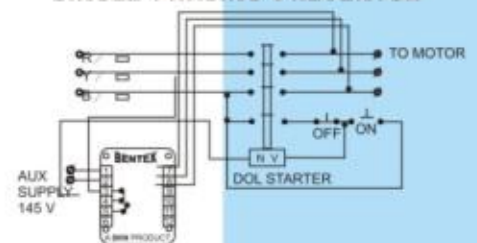
- Interchange 7 & 9 if the starter does not hold.
- In case of star delta starter connect the unit to main contactor.
- Relay contacts shown for unit in healthy condition.
- In case of reversible motor connect 2 with 3 before reversing switch.
- Aux. Supply to be connected as mentioned on the unit.



TECHNICAL SPECIFICATION

Operation	: Negative sequence voltage operated 415 ± 10%, 3 phase, 50 Hz
Auxiliary Voltage	: 110V / 240V / 415V AC ± 10% 50Hz
Temperature	: 5°C to 60°C
Humidity	: Max. 85%
Power	: Auxiliary Power 3 VA System
Consumption	power 1 VA.
Output contact	: Continuous - 5 Amps at 230 V
Rating	: AC and 415VAC, Breaking 1 Amps at 415 VAC at 0.5 PF
Life expectancy	: 0.5 x 10 ⁶ operation at 100% rating.
H.V. Test Voltage	: 2 KV AC 50 Hz for 1 minute or 2.5 KV AC, 50 Hz for 1 second between mounting plate and any terminal.
Mounting	: Operation unaffected by mounting position
Maximum overall	
Dimension	: 140 mm x 85 mm x 105 mm
Mounting Dimension	: 130x75mm.

SINGLE PHASING PREVENTOR



SINGLE PHASING PREVENTOR

TYPE: BAP (SD-N)

SUITABLE FOR DIRECT -ON-LINE / FULLY AUTOMATIC & SEMI AUTOMATIC STAR-DELTA SUBMERSIBLE CONTROL UNITS



Available.

- Rugged construction.
 - Shock proof.
 - Accurate measurement.
 - Wide operating range.
 - Light Weight.
 - Flush mount
 - Construction.
- ABS body.

RANGE : All range

ELECTRICAL INDICATING INSTRUMENTS AMMETERS & VOLTMETERS

Ammeters & Voltmeters are moving iron type of meters suitable for A.C. as well as D.C. operation.

CONSTRUCTION :

All the instruments are manufactured from the best quality material to give satisfactory performance over a large period.

All parts / sub-assemblies are thoroughly inspected at all stages with utmost care. These meters are supplied with white dials and black scaling in order to have easy legibility. The size of stamping is also adequate enough to be read from a reasonable distance. The movement is light in weight and is effectively secured between two sapphire jewel bearings. The precisely ground pivots minimize the friction and sustain occurrence in rigorous field conditions. The effective air damping provides a uniformly controlled torque and brings the indicating pointer to its final deflection position without much oscillation.

All the parts are adequately plated to make the instrument tropical. Instruments are effectively shielded against the effects of external magnetic and electrostatic influences. All the instruments have a zero resetting device in the front.

CALIBRATION :

The quality control and inspection at every stage of manufacture enable the meters to pass the "Time Test" The quality staff and the expert supervisors calibrate each and every instrument for finest accuracy.

RANGE :

These meters are in square flush type or in round flush, projection or pedestal type.

TECHNICAL SPECIFICATION							
	ROUND FLUSH PROJECTION		ROUND FLUSH PEDESTAL		SQUARE FLUSH PEDESTAL		
Range	4"	6"	2 1/2"	4"	6"	4"	6"
72mm	96mm 144mm						
Ammeters	0-1A, 0-5A, 0-10A, 0-15A, 0-20A, 0-30A, 0-40A, 0-40A, 0-60A, 0-75A, 0-80A, 0-100A, 0-150A, 0-200A, 0-250A, 0-300A, 0-						



OIL CAPACITOR

Power is necessity of life, specially today's India one of the rapidly growing advanced developing country, requires electricity in every aspect of its progress. To fight this shortage of power and to deal with this efficiently and economically. SKN-BENTEX joined hand with leading manufacturer of capacitors which have fully equipped plants with automatic machineries and modern testing equipments, provide a complete and versatile infrastructure for the manufacturing of world class capacitors.

All capacitors are manufactured under the supervision of highly experienced engineers & technicians ensuring manufacturing process and quality and are ISI marked to comply with mandatory regulations of Electricity Boards.

POWER CAPACITORS FEATURES

1. Improve system voltage & substantially reduce KVA demand.
2. Additional load can be installed without investment in capital equipment.
3. Reduce in line losses.
4. Increase life of electrical equipment with better performance.
5. Improve power factor (with elimination penalty for low power factor).
6. Expenses incurred or recovered within a year.
7. Robust design and compact size.
8. Minimum power loss.
9. Best suited for operation in tropical climates.
10. Minimum temperature rise with high thermal stability.
11. Suitable for continuous operation.
12. Self heating MPP film vaporized adjacent metal layer & regenerates initial insulating condition.
13. Vacuum impregnated with non-toxic non pvc impregnated/ flexible epoxy encapsulated for higher level of reliability.
14. Explosion proof modules for greater safety.
15. Built in & special type of induction coils with every phase to take care of surge & switch striking high voltage
16. Substantial saving in power cost and efficient operation if the plants.



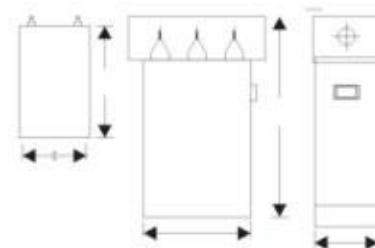
IS : 2993-98
AC Motor Capacitor



IS : 13340-93
Power Capacitor

(DRY CAPACITOR)

TECHNICAL SPECIFICATION			
Capacitor Type	MPP	MPP	POWER - SHUNT
IS:	1709-1984	2993-1998	13340-93
Rated output	2 MFD to 10 MFD	4.0 MFD to 144 MFD	1KVAR to 25 KVAR
Tolerance	±5%	±5% ±10%	-0+10% -5+10%
Rated Voltage	400VAC	230V /440V /AC	415, 440V AC
Rated Frequency	50 Hz	50 Hz	50 Hz
Ambient & Upper limit Temp Category	-25 to 70° C	-25 to 85° C	-10/45° C - 55° C
Phase & Connection	single/2T	single / 2T	3 Phase / 3T * Connection D 6T External CONNECTION ///
Duty Cycle	Continuous/20 start per hour, each start of more than 3 seconds	Continuous/20 start per hour, each start of more than 3 seconds	Continuous /20 start per hour, each start of more than 3 seconds
Insulation Level	>100 mgha S / 2M KV	>100 mgha S / 2 KV	>100 mgha S / 2.5 KV
Loss angle at RV	<0.2%]	<0.2%]	<0.25%]
Discharge device	N.A.	N.A.	Fitted < 50 v with in 60 Sec.
Dielectric	M.P.P. (SH)	M.P.P. (SH)	M. P. P. (SH)
Impregnated	EPOXY Encapsulated	EPOXY Encapsulated	Non toxic oil compound NPCB/ EPOXY Encapsulated



ADVANTAGES

1. Substantial saving in power cost & efficient operation of the plants.
2. Expenses incurred are recovered within 1 to 2 years.
3. Additional load can be installed without investment in capital equipments.
4. Improved power factor with elimination penalty for power factor.
5. Negligible maintenance.

Note:
Size are subject to change due to design improvement
Capacitor Parameters other than that mentioned can be supplied on specific request.

Bentex-Linger



foray into "Future ready Smart Energy Meter" manufacturing in not just targeted towards strengthening its comprehensive and rich portfolio of electrical distribution, Control and switchgear products; rather it is an effort to offer a new range of products and solution for energy metering, monitoring and management leading to a sustainable greener world.

Bentex-SKN is a leading brand in the field of energy meters since last two decades. Our static energy meters are conforming to various national and international quality standards.

At Bentex-SKN, "Total Quality" is the chosen path to excellence. The company has state of the art dust proof and fully air-conditioned production facility at New Delhi, India. Our products are manufactured under stringent quality controlled environment as per ISO: 9001 and ISO: 14001 by British Standards Institute(BSI), UK and RVA Dutch council for accreditation. Bentex offers a wide range of static energy metering solutions to choose from

Indigenous R&D facility for energy meter



Single Phase Counter Meter:- This meter provides a low cost solution for better energy measurement. Meter provides an effective resolution of 0.005kWh so that even a small amount of energy will not be left unmetered. Meter is designed around a robust electronic circuitry which is a proven solution in field conditions over a decade now. The meter is available in different ranges to suit the varying customer demand.

Key features:-

- a) 240V +20% to -50% wide working voltage range for Indian environment.
- b) Single rate Drum register with 5 + 1 digit display.
- c) 5A, 10A basic current.
- d) 20A, 30A, 40A, 60A maximum current.
- e) Tamper indication LEDs for detection of Earth fault & Reverse power flow.
- f) Compact light weight design.
- g) Reduced environmental burden.



On - Line Assembly Conveyor



Single Phase LCD Meter:- This meter is designed as a wear & tear free device so as to remove the mechanical part from meter. The USP of the meter is easy readability. This meter displays information on a 6-Digit, Large sized LCD display. Meter also consumes less power because of LCD used. Meter is available in different option with tamper proofing features e.g. Line-Load reversal, Earth fault, Neutral Missing.

Key Features:-

- A) 240V +20% to -50% wide working voltage range for Indian environment.
- B) Single phase, 2 wire network.
- C) 5A, 10A Basic current
- D) 20A, 30A, 40A, 60A maximum current
- E) High resolution HTN LCD display for better contrast & long life.
- F) Compact & rugged light weight design.
- G) High overload current capability.

Single Phase Multifunction Meter:-

This meter is designed as a versatile device which can replace a set of instrument generally used for measurement of electrical quantities. This meter can measure the true rms voltage, true rms current, Power factor, Load, Maximum demand etc in addition to a high resolution energy. All the instant data is available on MID (Multi Information Display) and a galvanically isolated optical port as per IEC:1107. Meter also provides detailed information of usage history, tamper details and load profile survey data through it's optical port.

Key features:-

- 240V+20% to -50% wide working voltage range for Indian environment
- Class 1 accuracy as per IS:13779.
- Available in different configuration as 5-20A, 5-30A, 10-40A and 10-60Amp.
- Extended operating temperature range.
- Display readable without MAINS power via built-in battery provision.
- Magnetic tamer immunity with event logging feature.
- Real time clock available.



IS: 13779:1999



CM/L : 8466692

Three Phase Counter Meter:- Three phase counter based meter is a low cost yet very accurate energy metering device. This device can measure energy usage in very harsh electrical environment. Meter can provide accurate energy metering even under severe tampering conditions viz. single phasing , Neutral missing, phase sequence reversal etc.

Key Features:-

- a) 240V+20% to -50% wide working voltage range for Indian environment
- b) Three phase, 4 wire network.
- c) 5A, 10A Basic current
- d) 20A, 40A, 60A maximum current
- e) Class 1 accuracy as per IS:13779-99
- f) Digital signal processing for better accuracy in tropical climate.

Three Phase LCD Meter :- Three phase LCD meter is designed to enhance the working life time of meter. This device has no mechanically moving component inside the meter & thereby providing an excellent life cycle usage. This device also provide an easy readout in the form of 6-digit large sized LCD display.

Key features:-

- a) 240V+20% to -50% wide working voltage range for Indian environment
- b) Three phase 4 wire networks.
- c) 5A, 10A Basic current
- d) 20A, 40A, 60A maximum current
- e) Class 1 accuracy as per IS:13779-99
- f) Digital signal processing for better accuracy in tropical climate.
- g) Backlit based LCD for easy view.
- h) Micro computer based intelligent design.



Meter with MCB



Indigenous Circuit Simulation Lab

Three Phase Multifunction Meter:-

This meter is designed to cater the sophisticated segment which demands for different sets of data of energy consumption. Meter provides instant data on MID (Multi Information Display). Meter can measure & display voltage, current, Power factor, Frequency, Active power, Reactive power, Apparent power phase wise & total in addition to measurement of Active, Apparent & Reactive energy.

Meter also provides energy usage history, Tamper details with snap-shots and load profile survey data via a galvanically isolated optical port in accordance with IEC:1107.

Key features:-

- a) 240V+20% to -50% wide working voltage range for Indian environment
- b) Class 1 accuracy as per IS: 13779-99.
- c) Available in different configuration as 10-40A and 10-60Amp.
- d) 7-Digit, STN (Super Twisted Nematic) High resolution, Bright backlit display.
- e) Extended operating temperature range.
- F) Display readable without MAINS power via built-in battery provision.
- g) Magnetic tamer immunity with event logging feature.
- h) Real time clock available.
- I) Galvanically isolated RS-485 port available.(Optional)



Production line



Ultra Sonic Welding Station

Meter Testing Lab



Fully automatic Meter Testing Bench




Energy Saving Fans




**BEE
5 Star
Rated Fans**

Saves Electricity upto 35%

Air Delivery
220m³/Min.

Sweep
1200mm



* Under standard test condition when tested in accordance with IS 374, the actual energy performance will depend on how the equipment is used.

Celebrating the 50th year of Establishment Golden Jubilee



When it comes to ceiling fans, SKN has a very broad range. SKN ceiling fans come in a range of amazing colors to match your room ambience. Choose from a range of sweep sizes from 600 to 1400mm - to optimise air delivery & performance in the room depending upon its size.

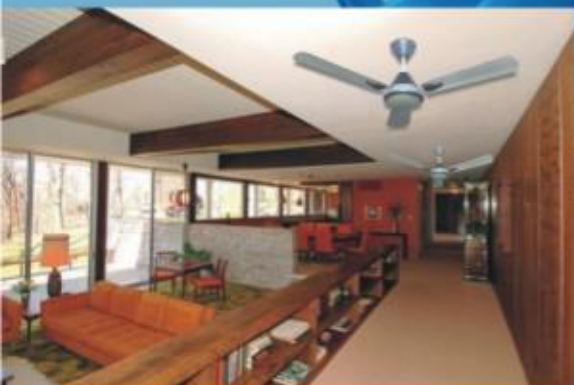
With our passionate innovation over the years in industrial & domestic market, we are reintroducing our amazing range of fans for the coming years, giving each & every detail the minute attention for you to get that extra bit of speed & cooling feel. With least power consumption through our fans, quality is always a threat for our competitors...



SAMRAAT
1200mm(48")
Mat Silver Blue,
Mat Beige Brown



GRACIA
1200mm(48")
White, Ivory & Mat Brown



SALCON
1200mm(48")
Silver Blue, Beige Brown, Pearl Ivory



FLORA
1200mm(48")
White, Ivory & Mat Brown

FEATURES :

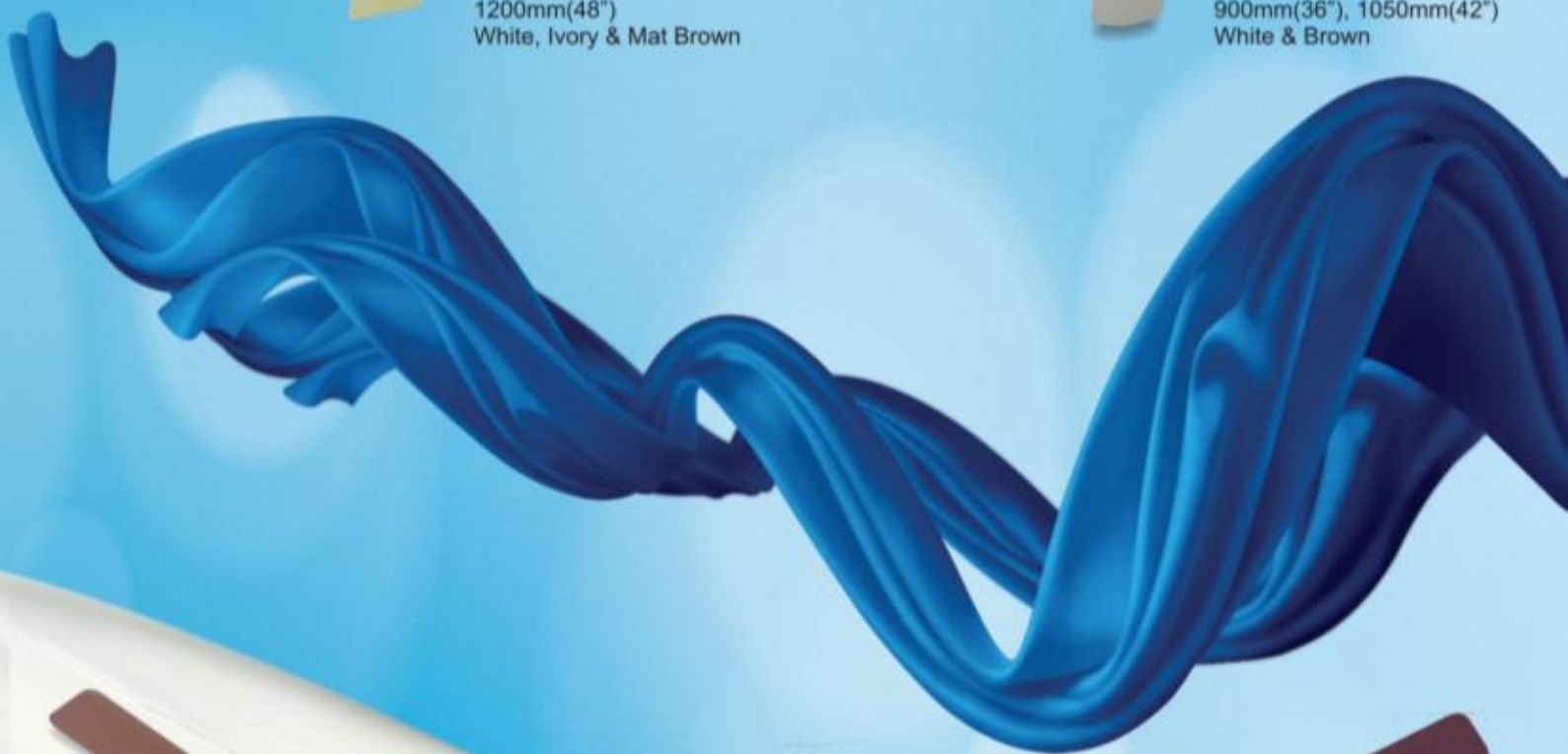
- 1) HI-Breeze Performance output.
- 2) Low-loss Electrical Stamping to ensure minimum power consumption.
- 3) Light weight aluminum pressure die-cast perfectly balanced motor body.
- 4) Aerodynamically designed **Aluminium** blades for maximum silent air flow.
- 5) Powder coated paint provides excellent long lasting finish.



MARVEL
1200mm(48")
White, Ivory & Mat Brown



HI - FLOW
900mm(36"), 1050mm(42")
White & Brown



PRIMA
1200mm(48"), 1400mm(56")
White, Ivory & Mat Brown



WINSOME
1200mm(48"), 1400mm(56")
White, Ivory & Brown

*silent cooling
fresh feeling*

Fans



RACER DECOR (HI-SPEED)
600mm(24")
White, Matt Brown, Ivory



DYNAMIC (HI-SPEED)
600mm(24")
White, Matt Brown, Ivory

Introducing the latest technology

FRESH AIR FAN (Light Duty)
225mm (9"), 300mm(12")



VENTILATING FAN
210mm(8"), 260mm (10")



DELUX INDUSTRIAL EXHAUST FAN
300mm(12"), 380mm(15"), 450mm(18"),
1400RPM



VENUS INDUSTRIAL EXHAUST FAN
300mm(12"), 380mm(15"), 450mm(18")
1400RPM



Self Priming Monoblock Pumps / Submersible pumps

THERMAL OVERLOAD PROTECTED

the **FORCE** behind water lifting

Self Priming Monoblock Pumps

SPECIAL FEATURES :

- 1) WIDE RANGE-TO SUIT ALL APPLICATIONS
- 2) HIGH HEADS - UPTO 54 METERS.
- 3) HIGH DISCHARGE - UPTO 4000 LPH
- 4) ANTICORROSIVE & SCRATCH PROOF POWDER COATED PAINT
- 5) WATER DELIVERY AT LOW VOLTAGE- RANGE: 200-240V
- 6) ENERGY-EFFICIENT.



ISO 9001-2008 CERTIFIED CO.



SUBMERSIBLE PUMPSET

Submersible pumps are manufactured to a very high quality standard to provide you excellent service. It is designed for continuous operation, greater efficiency and high working pressure. Easy assembling & dismantling.

4" (100mm) single phase Submersible Pump set

TECHNICAL SPECIFICATION

Particulars:	Submersible pumps	Applications:
Power Range	0.5 HP to 3.0 HP	Bangalows, Housing complexes
Supply:	240V, 50Hz	High-Rise buildings,
Speed:	2800 rpm	Hotels Industries,
Discharge Range:	16 lpm to 400 lpm	Public water supply
Total Head Range:	6 m to 250 m	Minor irrigation,
Pipe Size:	32mm, 38mm, 50 mm	sprinklers farming, public parks etc.

Performance chart

Submersible pumpset : 100mm (4") oil filled & water filled
supply voltage: 220V (oil filled), 240V (water filled)

Motor rating	Stage	Outlet	Discharge in LPM						
			80	68	60	45	30		
HP	KW	Inch	mm	HEAD IN METER					
1	0.75	8	1.25"	32	24	28	30	35	40
1	0.75	10	1.25"	32	30	36	39	44	50
1.5	1.1	12	1.25"	32	36	43	48	53	60
1.5	1.1	15	1.25"	32	45	54	60	66	75



ISO:14001:2004 Environmental Management System

Monoblock Pumps / Electric Motor



MODEL : 1.0 HP REGULAR
TOTAL HEAD : 160R (48mts)
MAX DISCHARGE : 3200 LPH



MODEL : X-TRA FLOW 1.0 HP
TOTAL HEAD : 130R (39mts)
MAX DISCHARGE : 3050 LPH



MODEL : 1.0 HP SUPER
TOTAL HEAD : 160R (48mts)
MAX DISCHARGE : 3400 LPH



MODEL : 1.0 HP FANTOM
TOTAL HEAD : 140R (42mts)
MAX DISCHARGE : 2800 LPH



MODEL : 1.0 HP SHALLOW WELL
TOTAL HEAD : 100R (30mts)
MAX DISCHARGE : 4000 LPH



MODEL : 0.5 HP REGULAR
TOTAL HEAD : 100R (30mts)
MAX DISCHARGE : 2700 LPH



MODEL : 0.5 HP FANTOM
TOTAL HEAD : 90R (27mts)
MAX DISCHARGE : 2300 LPH

PERFORMANCE CHART

Pump Model & Size	TOTAL HEAD IN METERS															
	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	54
DISCHARGE IN LPH (LITRE PER HOUR)																
0.5 HP FANTOM	2220	1920	1680	1470	1140	840	480	360								
0.5 HP REGULAR	2460	2280	2040	1800	1440	1140	1020	720	420							
1.0 HP XTRA-FLOW	2640	2460	2280	2100	1920	1680	1440	1200	960	780	600					
1.0 HP FANTOM	2700	-	2400	-	2040	1860	1680	1500	1260	-	900	660	420			
1.0 HP REGULAR	2940	-	2880	-	2700	2520	2340	2160	1920	-	1500	-	1020	780	480	
1.0 HP SUPER	3180	-	3120	-	2760	2580	2400	2220	2040	-	1620	-	1140	960	780	500



SINGLE PHASE ELECTRIC MOTOR 220V, 50Hz AC,
SINGLE PHASE INDUCTION MOTOR

ELECTRIC MOTOR (AC INDUCTION MOTOR)

These Motors are built with robust construction and are ideally suited to perform in difficult operating condition. The motor are tested against torque and speed in order to ensure superior performance. These product are highly appreciated for their effectual performance and longer life span and final application in agricultural, and various Industrial sectors.

TECHNICAL SPECIFICATION

Particulars:	(Single phase)	Applications:
Power Range	0.5 HP to 3.0 HP	Compressors
Supply:	240V, 50Hz	Material handling equipment
Speed:	1400 rpm	Diamond cutting & Conveyors
Insulation:	A/B	Pumps & Blowers
Mounting:	Foot mounted	Floor mills
		Industrial machines

IS:8078



CML 8337277



ABS Body:

Capacity: 1 Ltr. Instant
Sleek, Compact, Shock proof,
Rust proof, Avoids corrosion

IS:2082



CML 9611478



ABS Body:

Capacity: 15.25 Ltr.
Sleek, Compact, Shock proof,
Rust proof, Avoids corrosion

IS:2082



CML 9611478



Drarf :

Capacity: 15.25 Ltr.
Steel Body / Powder Coated part,
S.S. Tank

IS:15558



CML 9514278



Domestic Gas Instant

Water Heater
Capacity: 6.5 Ltr.

IS:2082



Electrical Instant Water Heater

Instant water heater is ISI marked
Rust proof ABS outer body (shock proof) available in
various shapes. Hydraulically tested inner tank -
Stainless Steel Glass wool insulation to ensure
minimum heat loss
Efficient and long lasting 3000W in-house
manufactured heating element as per IS-4159 Fitted
with 3 core fire retardant heavy wire. ISI marked
thermostat and thermal cutout (optional)
Capacity -> 3 ltr
Color -> Ivory,white

IS:2082



Plastic Water Heaters (ABS Body)

Storage water heater is ISI marked
Outer Body : Stylish Rust & shock proof abs body
Hydraulically tested inner tank - copper tank /
stainless steel (thickness 0.7 mm for high pressure)
Puff insulation for ABS body to ensure minimum heat
loss.
Efficient & long lasting 2000 W in-house manufactured
heating element as per IS-4159 ISI marked thermostat
and thermal cutout with led lamp indication.

Fitted with 3 core fire retardant cable.
Capacity -> 6lts, 10lts, 15lts, 25lts
Color -> Ivory and designer body

IS:2082



Metal Water Heaters (CRC Body)

Storage water heater is ISI marked
Outer Body : powder coated corrosion resistant heavy
MS Sheet body
Hydraulically tested inner tank -
copper tank/stainless steel (thickness 0.7 mm for high
pressure)
Glass wool insulation to ensure minimum heat loss.
Efficient & long lasting 2000 W in-house manufactured
heating element as per IS-4159 ISI marked thermostat
and thermal cutout with led lamp indication.

Fitted with 3 core fire retardant cable.
Capacity-> 6lts, 10lts, 15lts, 25lts, 35lts & above on
order
Color- Ivory, white.



Gas geyser

- Approx. 4 times cheaper to run than electric geyser.
- No electricity required. No risk of shock and power failure
- Flame failure & water temperature safety device
- Gas & water flow adjustment
- Anti dry-burning protection device, anti frozen device
- Protection devices for steady flow and abnormal pressure
- Approx. 500 buckets of hot water from one LPG cylinder



**PALSER
HEAT CONVECTOR**



**SALCON
HEAT CONVECTOR**

Water purifiers / Air Coolers

E-ON Series 7 Stage Water Purifier

For Safe and pure drinking water



GALAXY

- No Germ
- No Boiling
- No Running water
- No Electricity

Without online water filters



W-KOOL

- No Germ
- No Boiling
- No Running water
- No Electricity

Icy cool air cooler

Features

- Three side cooling pads.
- Powerful 40ft. air throw.
- Large non corrosive fan.
- Air throws at body level.
- Whisper quite performance.
- Optional Trolley.
- Easy to open cleaning.
- Four way air system.
- Water level indicator.
- Ice chamber.
- Even operates on inverter.



Features

- 10mt. (25ft.) Air throw
- Mosquito net
- Trolley Optional
- Even operates on inverter
- Four way air deflection system
- Water level indicator
- EFT- E Flow technology



Snow cool air cooler

Air delivery (in M3/Hr)	590x570x890 40ft.	570x490x560 25 ft.
Submersible pump	Yes	Yes
Cooling Area (Sq. Ft.)	950.00	550.00
Louver Movement	Auto Swing	Auto Swing
Max Voltage (in Watts)	230 W.	88 W.
Speed Control		
Water Tank Capacity	60 Lts.	45 Lts.
Ice Chamber	Yes	-
Carten Dimensions LxWxH (in MM)	690x580x950	609x558x558
Warranty	12 M	12 M
Runs on Inverter	Yes	Yes
Wheel	Wheel	Trolley

For complete Protection
of your life, Property &
Equipments.

Our other companies:

Bentex Control & Switchgear Co.

B-63-65/3, Naraina Industrial Area Phase-II, New Delhi (India)
Tel : 011-45698100 (30Lines), Fax : 011-25707556
E- mail : bentex3@rediffmail.com Website : www.sknbentex.co.in

Haryana City Gas Distribution Ltd.

Corporate office: A-149, Sushant Lok, Phase-1, Gurgaon-122001 (Haryana) India
Tel: 0124-2578701 to 3, Fax : 012-42578704
Website : www.haryanacity gas. com

Natasha Housing & Urban Development Limited

E-71, South Extension Part-I, New Delhi-110049 (India)
Tel: 011-24644792, 24634449 Fax : 011-24634442

Bentex Tower Pvt. Ltd.

A-6, Naraina Community Centre, Phase-II, New Delhi-110028 (India)



REGD. OFFICE:

BENTEX HOUSE

B-63-65/3, Naraina Industrial area Phase- II New Delhi- 110028, India
Phones: 011- 45698100 (30 Lines) Fax : 011-25707556
Email : bentex3@rediffmail.com bentex3@bol.net.in,
Website : www.sknbentex.co.in