

Control Panels Oil Immersed Starter

Motor Control Centers Liquid Rotor Starters

Power Control Centers Stator Rotors Starters

Capacitor Control Panels Star Delta Starters

Feeder Pillar Panels Auto Transformer Starters

Out door Control Panels Soft Starter Panels

PLC / Mobile Starters Panels

Variable Frequency Drives (VFD) Panels



Established in the year 1999 at New Delhi, S.M. Engineers is one of the leading Trading & Manufacture of Electrical Starters, Electrical Control Panels, Capacitor Panels (APFC Panels), Soft Starters Panel, A.C. Drives (V.F.D. Panels) and Electrical Feeder Pillars. Being an ISO 9001:2008 certified enterprise. We aim to deliver the best to the clients every time. Under the capable guidance of the CEO, Mr. B.S.Sainger, We have set a bench mark for ourselves in the global markets.

Vision

- To enhance production, Technological upgradation and competitiveness
- To expand our export market to more regions

Mission

To serve our prestigious clients by prompt delivery of goods that stand for unmatched quality and that too at the most competitive prices.

Infrastructure

The company is backed by a well-maintained infrastructural set up that ensures efficient and smooth working. The segregation of work on a departmental basis such as quality control, research and development, designing, manufacturing, etc. ensures the proper utilization of the available resources and guarantes higher output. The company also has the latest tools and requipment as well as the modern production techniques at lts disposal.

Team

The company is well supported by a highly skilled and trained team having vast experience in this field. The working environment is highly motivating, enthusiastic and makes the team capable of accepting and overcoming new challenges. The team comprises of the following members:

- Technicians
- Designers
- Engineers
- Skilled personnel
- Sales and marketing personnel
- Quality analysts
- R&D personnel

Quality

Being an ISO 9001:2008 Certified organization, we pay strict attention to the quality related matters of the products. The in-house quality testing system ensures the best products which states that we stay above the desired levels of the business. The products are rigorously examined for quliaty throughout the manufacturing process.

We Serve

The products, offered by us, are widely used in various areas like corporate buildings, townships including infrastructure, multistorey buildings, research & development, industrial buildings, cinemas, hotels and educational institutions to name a few.



Star Delta Starter

We manufacture Manually Operated oil immersed & fully Automatic Air break Star Delta Starter for Starting of squirrel cage induction motors. These comply to IS 13947 Part-1, Section - 4 and are suitable for 40 Starts per hour. The product is offered at reasonable prices.

Fully Automatic Air Break Star-Delta Starters:

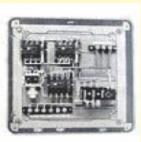
We supply our top quality Automatic Star Delta Starters for starting of squirrel cage induction motors. These comply to IS 13947 Part-I, Section-4. The product is offered at reasonable prices.

Construction: Totally enclosed, fabricated sheet metal casing, wall mounting type, stuitably gasketted to make it dust proof. The entire starter assembly (which is mounted on a steel plate) can be taken out of the

casing by removing four screws only. Maintenace is facilitated by taking the interior out for repair while a spare interior can be inserted.

Rating: The automatic star delta starters are ideal for controlling motors upto 40 HP at 400/440 volts or 500/550 volts. Adjustable timer is incorporated for automatic changeover from star to delta.





Oil Immersed Manual Starter

Manually operated Oil immersed Star-Delta Starter SMSD-10/SMSD-15 type Suitable for voltage up to 550V. The numerous specification and features of the Manual Starters, as well as their availability in standard and customized forms make them very popular.

Accessories:

- Provided with incomming and outgoing cable entry plates
- Cable boxes for paper insulated cables, fully interlocked isolator, ammeter, volmeters, earth leakage relay, bus bars, single Phasing preventer, remote stop provision, floor stands, etc. can also be provided on request
- Starter & OCB are supplied without 1st fittling of oil

Construction

- Main body and oil tank made of sheet metal
- Enclosure is moisture and dust proof







Auto Transformer Starter

Fully Automatic / Oil Immersed Auto Transformer Starter is compact, totally enclosed with gasketted joints. The entire range is made of top-quality raw material and is available at very economical prices. The team of professionals ensure that the starters are well finished and perform smoothly.

Our Range Includes

Fully Automatic Auto-transformer Starters upto 600 HP 550V (275 HP type Tested from ERDA Vadodara. Manual auto transformer starters upto 200 HP 550V

Any outler voltage can be supplied on request.

Fully Automatic Air Break Auto Transformer Starter:

Fully Automatic Auto Transformer Starters combined with air Break Contactor (Main / Transformer / Star), Motor

Protection device having cyclic Ammeter, Under Current / Over Current Protection, Single Phase Protection & Inherent Dry Run Protection, (MPD), Voltage Protection Device having voltmeter, Under voltage / Over Voltage, Single Phase / Phase Reversal / Phase Unbalance Protection (VPD), On/off/Trip Indication Lamp with control MCB/fuse, Start / Stop push button, On Delay Timer, Current Transformer & Air/Oil Cooled Auto Transformer with 50%, 65% & 80% Tapping's Suitable for 4-6 Start Per Hrs, With the time gap of 10-15 Minutes per start in Hot condition & 2 Consecutive start in cold condition without First Filling of oil. (Other Percentage of Tapping's can be provided on request).



Manual Oil Immersed Auto Transformer Starter

Manual Oil Immersed Auto Transformer Starter (Type AT-15) has been designed for control and Protection of squireel cage induction motors up to 200Hp of voltage up to 550V extensively used in different industris.

Specification

The main body and oil tanks are of Sheet Metal. The enclosures are both moisture and dust proof. At the upper portion of the starter i.e. just under the top cover all cable terminating points, Overload relay, On/Off and holding mechanism are arranged whereas all moving and fixed contacts are kept at the bottom part i.e. inside the oil tank so that proper oil

cooling of contacts is effective. Auto Transformer is provided at the rear tank. Triple pole Electro-magnetic overload relay of inverse time-current Characteristics with oil dashpot time lag arrangement of auto reset type is provided for overload Protection. To ensure trouble-free operation, heavy duty type contacts are used. Each contacts has two segments: arching & main contacts. One 3-Phase, Oil cooled star Connected auto transformer is provided for starting the motor at reduce voltage suitable to develop the starting torque. Normally 50%, 60% and 80% tapping's are provided on the secondary side. Other percentage of tapping's can be provided on request.



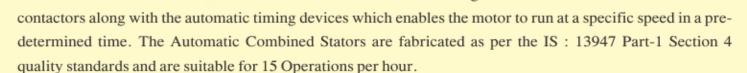


Stator Rotor Starter

We manufacture Stator Rotor Starter in Manual & Automatic as reasonable range. The stator Rotor Starters, offered by us, are suitable for voltages upto 550 Volts. H.P. 330 H.P. The Stator Rotor Starters are available

with a separate OCB for Stator Controlling and roller controller that are mounted on the same base frame, which is fabricated using galvanized steel. The stator rotor starters are durable and highly efficient.

The Automatic Combined Stator has an air break contactor with over current as well as an efficient under voltage protection for the stato. The Automatic Combined Stator also contains a set of accelerating



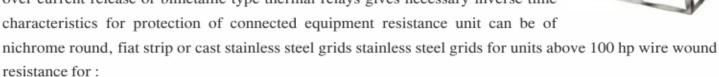


Controls:

- Start, stop and Reset push buttons provided on the front cover
- Terminals also provided for remote operation by outside signals.

The Stator Rotor starters are suitable for 15 operations per hour. Controls start, Stop and reset push buttons provided on the front cover terminals also provided for remote operation by outside signals isolator can be

fitted quick make and quick break isolations operation can be interlocked with the front cover instruments and cable arrangements provision for mounting meiering instruments blank gland plates provided for fixing cable glands rating standards ratings are up to 40 hp to 400 hp at 415v and 2000 hp at 6.6. kv. specific details regarding rotor volts and rotor currents should be supplied with the inquiries. Overload relay can be provided with either electro magnetic oil dash pot time lag over current release or bimetallic type thermal relays gives necessary inverse time characteristics for protection of connected equipment resistance unit can be of



- Lower Hp timer: Electronic timers to adjust no of steps
- Time delays contactor: air break contactor confirming ac iii









Liquid Rotor Starter (Automatic / Manual)

The liquid Rotor starter are manufactured confirming to BS - 140 inv version of Automatic Motor Operated & Manually Operated. The Starter are Electrolyte tank is made out of 3mm Thick MS Sheet Steel and other fabrication is of 2mm MS sheet steel. Expoxy Black Paint (for anti-Corrosion) is done inside the Electrolyte tank. Polypropylene phase barriers are provided. Movement of Moving electrodes are horizontal / vertical type as per requirement. The starter is suitable for two consecutive starts from cold & four starts per hour equally spread in hot conditions. Limit switches for interlocking purpose with spares contacts are provided in automatic version. Electrolyte filling & over flow sockets will be provided. Air break Power Contactor of suitable rating are provided to suit RA of motor for final short Circuiting to the resistance.

For Automatic Version integral control box (housed will main MS tank of LRS) of Suitable size will be

provided. It will be having RDOL Starter of suitable rating aux. Contactor for reversing & forwarding Pilot motor & the moving electrodes, over load relay, key actuated auto/Manual Selector Switch, Push button, Isolating Switch, Indicating lamps and Power / Control TBs etc...

All The motor 7 Switchgear Components used are of reputed quality. The starter are interfaced with consignee's PLC system also. The electrical interlocking circuit will be provided for consignee's PLC Systems. The interlocking is such that the main motor can not be started unless resistance is in fully" In" position & the main motor will be tripped, if the Electrodes does



not reaches to run position within Specified time. Electrolyte level indicator & temperature sensor with alarm & trip contacts can be provided on request.

Direct - On - Line Starter Panel

Fully Automatic DOL Starter is Manufactured MS sheet Steel with floor / Wall mounted. The entire range is made of top quality raw materials and is available at very economical prices. DOL starters Combined with Air Break Contactor, Voltmeter & Ammeter with selector switch, Overload Relay, Single Phase preventor, Phase failure with under / over voltage protection, On/Off Indication Lamp with Control MCB/Fuse, Start/Stop Push Button, On Delay Timer & Current Transformer.





Our Products



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Capaitor Control Panel

We offer highly customized & effective Capacitor Control Panel. Our Capacitor Control Panel are widely used in various industrial unit. Our panel came with a power circuit consisting of contractor, MCB and fuses.

Product Information

We Selected the field of energy conservation or energy saving. Witch is a need of the time and is receiving attention from the governments and from private sectors as well. Our of various various electrical fields this area is one part, is a subject of our expertise and experience. Power factor is the ratio between true power and apparent power. Thus, P.P. = KWH / KVAH. Here, KWH is an abbreviation for Kilo Watt Hour or nit. KVAH is an abbreviation of Kilo volt Ampere Hour.



Motor Control Center Panel

We offer a wide range of Motor Control Center Panels. The Motor Control Center Panels are widely used for feeding furge loads. The motor control Center Panels, offered by us, can be availed with the power stabs. The major area of application for the Motor Control Center Panel is supporting the high capacity industrial motors. The motor control center panel can also be supplied as per the specific requirements of the clients and this makes us one of the largest Manufacturers, Exporters and suppliers of Motor Control Center Panel in New Delhi (India).



Attributes of Motor Control Center Panel

- Long Lasting
- Made from quality raw materials
- Wide Range of applications
- Advanced technology

Power Control Center Panel

We offer a wide range of Motor Control Center Panel. These are widely used to feed the large loads and is available with power stabs. The main task of motor panel is to support high capacity industrial motors. Customization is our forte and all our products are offered per the specific requirement of our client.





Our Products



S. M. ENGINEERS

Electrical Feeder Pillar

We are engaged in manufacturing of Electrical Feeder Pillar that have a specified standard of protection IP:55. These pillars are perfect for outdoor use and are widely applicable in different non-industry and industrial applications. These are manufactured using superior quality material and sub equipment. These pillars are perfect for outdoor use and are widely applicable in different non-industry and industrial applications.



AC Motor Soft Starter Panel

Our range of soft Starters is a general purpose AC Motor Soft Starter Industrial package. It provides a complete and effective Ac motor starting and protection solution with it's GPH starters built for ruggedness and reliability. These are designed for simple and fast installation and start-up, requiring only input power and output motor connections. The use of superior quality raw material makes the entire range more desirable.

Applications

- Pumps
 Fans / Blowers
- Conveyors
 Compressors
- Agitators
 Crushers
 Saws



A.C. Drives / Variable Frequency Drives Panel

Variable frequency drive Panel are maufactured with Incomming ACB/MCCB/Switch fuse unit of suitable rating with all required materials. i.e. Display Unit, Provision for remote Start/Stop, Ammeter, Voltmeter with CT & Selector Switches, Indication Lamp & Push Button. These Drives can also be interfaced with PLC's system.



Off.: 98, Jai Apartments, Plot No. 102, I.P. Extension,

New Delhi, India - 110092

Works: K.H. No. - 157, Plot No. 104, Village Chilla,

Opp MCD Primary School, Delhi-110091

Phone: +91-11-43005355 / 22713689

Mobile: +91-9350006785 / 8285040005

Fax: +91-11-43005355 / 22713689



