



MOTOR STARTING SOLUTIONS

20kW to 200,000kW
415V to 13.8kV



- FCMA^{PLUS} SOFT STARTER



iEngineering Portfolio

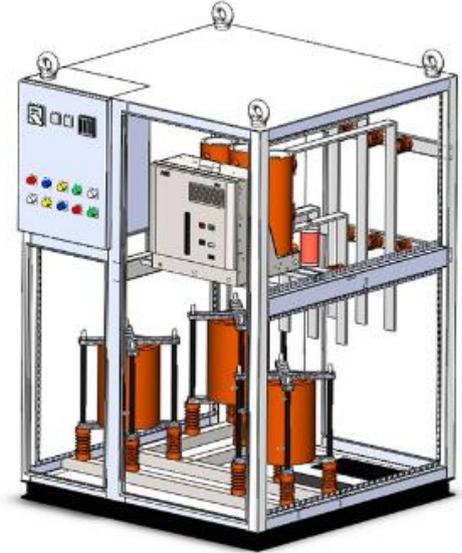
Low voltage FCMA^{plus}/HFSR SS

20KW to 1500KW, 415V 50 Hz/60Hz



Medium Voltage FCMA^{plus}/HFSR SS

200KW to 20000KW, 3.3kV, 6.6kV, 11kV, 13.8kV 50 Hz/60Hz



MV FCMA^{plus}/HFSR Special Model Starters with 1.5I_n

200KW to 20,000 kW, 3.3kV, 6.6kV, 11kV, 13.8kV 50 Hz/60Hz



LT FCMA^{plus}/HFSR Special model – 1 – 1.5I_n

300KW to 2000KW 415V- 13.8KV 50Hz/60Hz



FCMA^{PLUS}/HFSR LT SOFT STARTER

- ✓ We provide reduced voltage starting method of motor with air core FCMAplus/HFSR technology as per AS 60076.6-2013 and IEC 60076-6.
- ✓ FCMAplus/HFSR soft starters are designed specific to each motor, analysing motor and load torque speed curves, current speed, and moment of inertia. Starting current can be reduced from 3- 3.5I_{fl}*, these are typical starting current values based on design and customer experience Actual measurement may vary based on actual site condition.

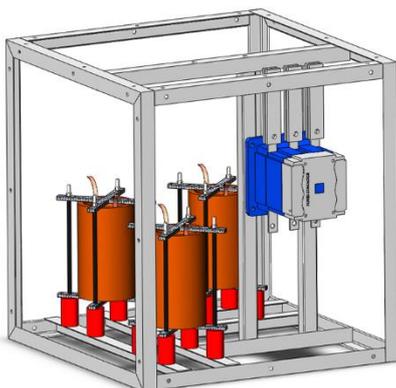


LT FCMA^{PLUS}/HFSR STANDARD MODEL – 3 – 3.5 I_{FL}

Our standard offering is provided with a main switching contactor, soft starter with bypass contactor along with metering and protection for the motor with a customer requested make of MPR/Overload relay These panels can also be provided with an isolating device like MCCB /SFU/ ACB as required by the customer. We also use closed loop control using a PLC.

LT FCMA^{PLUS}/HFSR SPECIAL MODEL – 1 – 1.5 I_{FL}

Starting current can be reduced to <1 I_{fl} to 1.5 I_{fl}
We offer starting current to 1 to 1.5 I_{fl} which helps customers to start higher capacity motors on limited Grid? Captive power plants



LT FCMA^{PLUS}/HFSR OE MODEL

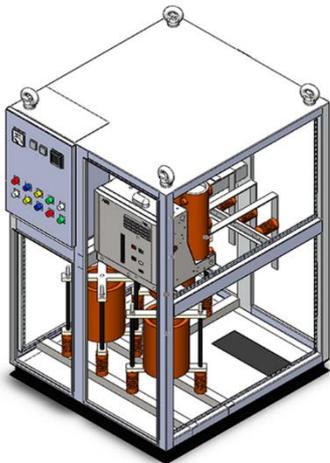
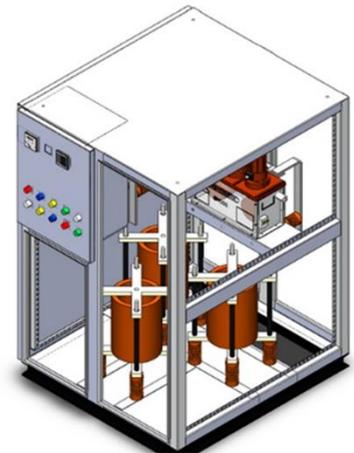
We provide reduced voltage starting method of motor with FCMA^{plus} technology as per AS 60076.6-2013 and IEC 60076-6.

FCMA^{plus} soft starters are designed specific to each motor, analysing motor and load torque speed curves, current speed, and moment of inertia

FCMA^{PLUS}/HFSR LT SOFT STARTER

MV LINE SIDE - FCMA^{PLUS}/HFSR STARTER

Starting current can be reduced from 3- 3.5I_n* typically for any applications like pump, compressor, fans, blowers, mills. A standard product will be provided with the FCMA^{plus}/HFSR soft starter with bypass vacuum contactor of customer preferred make or with a bypass vacuum circuit breaker. Our line side soft starters are designed for fault level of the system. We use closed loop control using a PLC Line side soft starters are preferred for motors in hazardous area or when neutral terminal box is not available.



MV NEUTRAL SIDE- FCMA^{PLUS}/HFSR STARTER DESCRIPTION

Neutral side soft starters are connected on motor neutral terminal.

Standard offer will be provided with the FCMA^{plus}/HFSR soft starter with bypass vacuum contactor of customer preferred make or with bypass vacuum circuit breaker fixed type.

We use closed loop control using a PLC

MV FCMA^{PLUS}/HFSR SPECIAL MODEL STARTERS WITH 1.5I_{FL}

Starting current can be reduced from 1-1.5I_n* typically. These types of soft starters can be offered for any applications like pump, compressor, fans, blowers, mills Motor starting solution to reduce the starting current to 1.5I_n can be offered by providing

Dynamic compensator along with the line / neutral side soft starters are designed for only motor starting duty and will be isolated after motor reaches full speed

For large motors starting on limited captive power generation, we have a unique solution, which can be offered on request. We use closed loop control using a PLC



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