

Provides starting and operating control, protection, and fault annunciation

KinetSync-NB™ provides:

- Protection and control needed for the specific application of "Brushless Synchronous Motors"
- Digital logic control with analog interfacing
- Designed for ease of application and startup
- Includes a ready to use RS232 communication port
- Motor power factor monitoring for interfacing with a voltage/PF regulated field exciter.

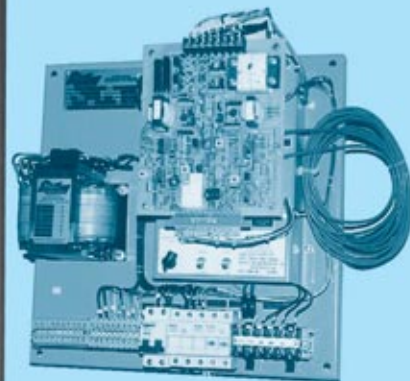
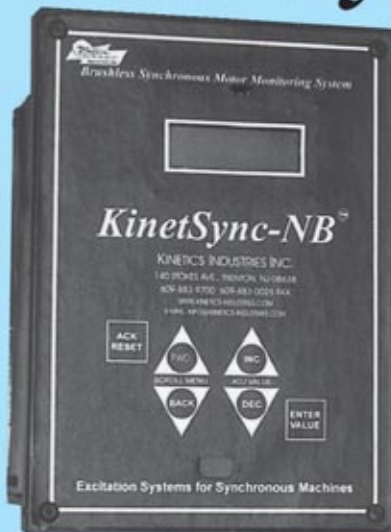
KinetSync-NB™ Key Features:

- Continuous digital display of motor power factor, exciter DC amps and exciter DC volts.
- Text display of motor operating status
- Text display of system fault annunciation
- Back lit alpha numeric LCD display screen
- Touchpad interface for operating parameter adjustment
- Programmable key pad security code for operation protection feature.
- Motor fault / trip history memory registry with time and date by external computer access via Windows based software
- Unit pre-programmed for immediate installation and operation
- Fused PT disconnect terminal
- Quick disconnect connections
- Ring lug connections for CT & PT signal terminal points
- Through enclosure door mounting case
- Input power for operation 120/1/60 or 50 Hz

Options Available:

- RS485 configuration communication module
- Time / dated stamped fault history export capability
- Specialty motor, mode of operation and control programming
- Rotating SCR / diode failure detection & protection module
- Motor output clutch excitation control
- Low excitation amps / volts remote alarms or annunciation
- Allowable re-synch attempts lockout control
- AC input other than 120/1/60 or 50 Hz

KinetSync-NB™



Excitation System Option:

A brushless synchronous motor requires both an "off motor shaft" control of field section and a DC field power source. The KinetSync-NB is the "off motor shaft" annunciation and control of motor field "section." Kinetics manufactures an extensive line of regulated and constant potential exciters to fit the application. The KinetSync-NB, control and annunciation module, when matched with a Kinetics SVR1-NB solid state regulator provides a complete, solid state, exciter / application system providing excitation, application, power factor control, system monitoring and system protection.

KinetSync-NB™ Synchronous Motor Monitoring System

Brushless

Name: _____ Date: _____

Company: _____

Tel: _____ Fax: _____

E-mail: _____

Motor Manufacturer: _____ HP: _____

Motor Application/Use: _____

Motor Specific; Per Motor Manufacturer Design:

Method of DC field excitation application to the motor internal exciter:

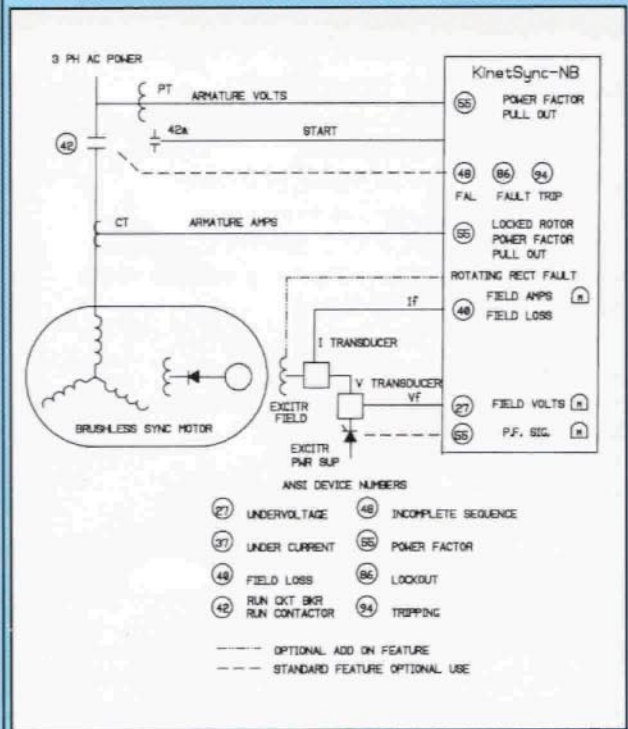
- 1) ___ DC applied at motor starting. (Mod. A)
- 2) ___ DC applied after programmed time interval (Mod. H)
- 3) ___ DC applied based on frequency of motor induced pulses (Mod. ID)
- ___ DC applied at synchronous speed & pulse is present (Mod. ID1)
- ___ DC applied at synchronous speed & pulse not Present (Mod. ID2)
- 4) ___ DC applied upon command from an external signal. (Mod. C)
- ___ Tachometer: Model _____ Signal voltage _____
- ___ Other type of signal source & rating: _____
- 5) ___ Application method unknown, needs further investigation.

Motor Field / Exciter: Volts DC _____ Amperes DC _____

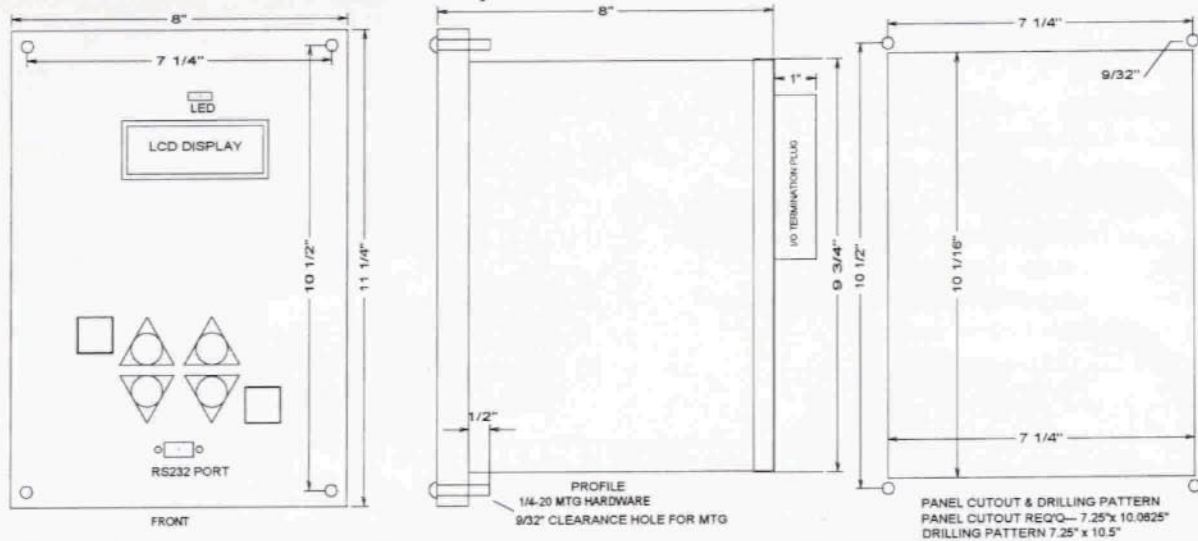
Exciter needed: ___ Regulated ___ Constant potential _____

Mounting: KinetSync module / panel mounting by other _____
 KinetSync module / panel in an enclosure by Kinetics _____

Typical System One-Line Diagram Configuration



Kinetics KinetSync-NB Module Enclosure Dimensions



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 Trenton, N.J. 08638
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 Fax: 609-883-0025

Also available from Kinetics

- Mill duty, AC to DC, rectifiers & power supplies 1 to 2000 Kw
- Brush type motor, 100% solid state, field application system.
- Contactor applied field application panels.
- Regulated or constant potential exciters.
- Generator excitation systems.
- Exciter, EPT, dry type transformers 500 VA to 2000 KVA
- Enclosures for NEMA1, 3R, 4, 4X & 12 applications
- Crane & magnet rectifiers 1 to 2000 Kw
- The most extensive line of excitation products on the market from one source - Kinetics

Email: info@kinetics-industries.com WEB: <http://www.kinetics-industries.com>

For brush or slip ring type synchronous motor field controls see Kinetics' model *KinetSync-NB™*