

SIEMENS

**Siemens introduces a new
concept in Motor Control Centers.**



Function	SAMMS3	SAMMS2	SAMMS1
F1 Control circuit number	X	X	X
F2 NEMA size	X	X	X
F3 NEMA size for low speeds	X	X	X
F4 Full load current for OLR No. 1	X	X	X
F5 Full load current for OLR No. 2	X	X	X
F6 Service factor	X	X	X
F7 Overload trip class	X (1)	X (2)	X (3)
F8 Automatic reset	X	X	X
F9 Phase unbalance	X	X	X
F10 Time to restart	X	X	X
F11 Allow restart	X	X	X
F12 Ground fault protection	X (6)	X (6)	X (6)
F13 Timer No. 1	X	X	
F14 Timer No. 2	X	X	
F15 Motor current	X (4)	X (5)	
F16 Trip current	X	X	
F17 Percentage unbalance current	X	X	
F18 Total elapsed time on motor	X	X	
F19 Total number of starts	X	X	
F20 Number of overload trips	X	X	
F21 Reset motor data	X	X	
F22 Set process current warning	X		
F23 Jam protection	X		
F24 Loss of load warning	X		
F25 Calculated motor winding temperature	X		

- (1) Choice of Class 2 thru 23 protection
(2) Choice of Classes 5, 10, 15, 20 protection
(3) Choice of Class 10 or 20 protection
(4) Displays average phase current or any of the three phases
(5) Displays the average phase current
(6) Optional (disabled if not specified)

Which model is best for your application?

SAMMS Three.

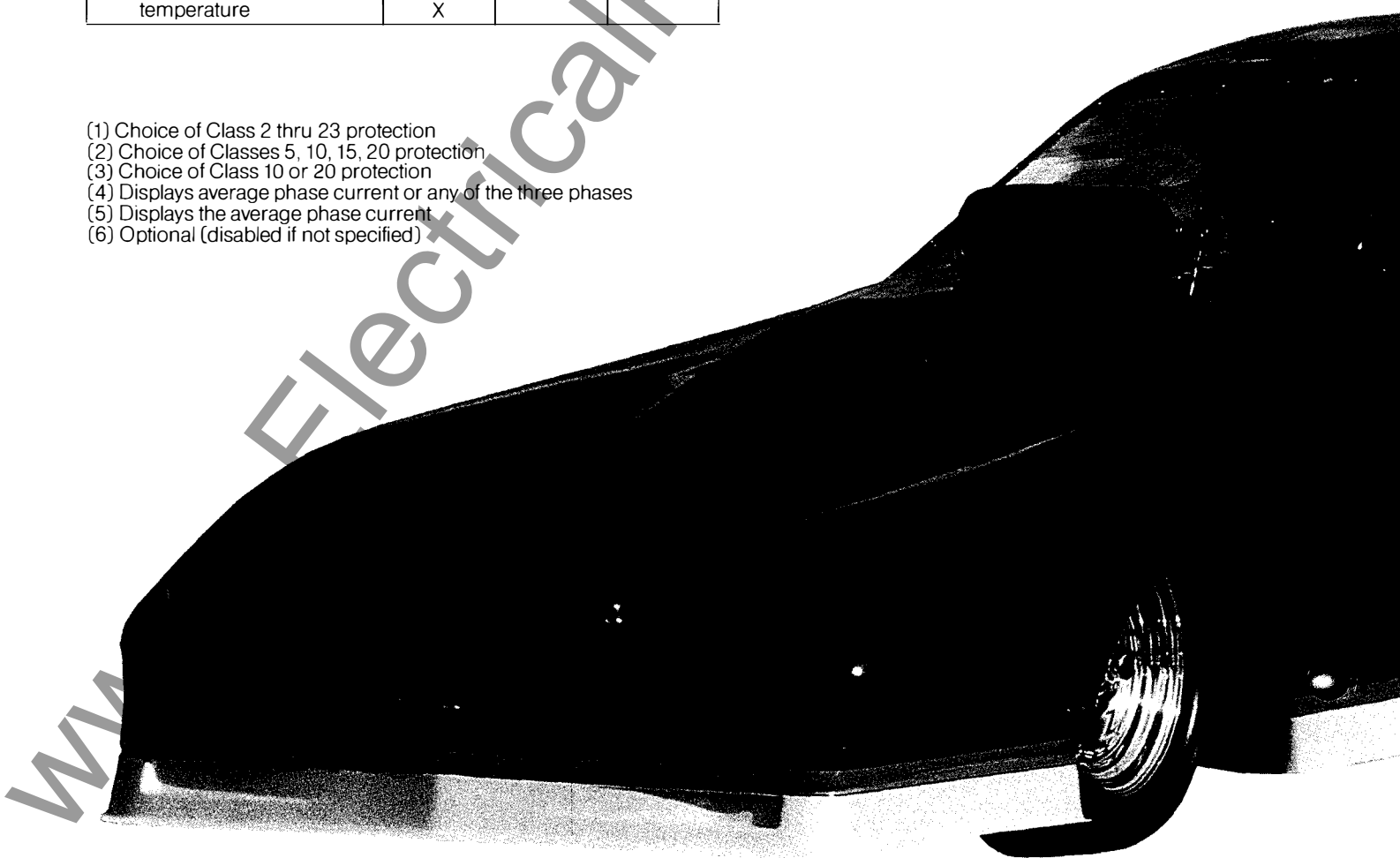
SAMMS Three is designed for critical applications where downtime translates into tremendous losses. It offers jam protection, process current warning and loss of load protection.

SAMMS Two.

SAMMS Two offers motor diagnostics for preventative maintenance programs. Its features allow monitoring of critical motor operating characteristics including; motor running current, overload trip current, phase unbalance current, elapsed motor running time, total number of starts, and overload trips.

SAMMS One.

SAMMS One is the answer to situations where quick turn around time and installation is important. Motor parameters and motor control configurations—from a simple across-the-line starter to a complicated reduced-voltage starter—can be programmed in a matter of minutes before installation or on the line—eliminating heater coil and wiring changes.



Siemens Advanced Motor Master System

Siemens Advanced Motor Master System, "SAMMS," is a software configurable electronic motor control and protection device designed specially for use in motor control centers. SAMMS is a reliable, flexible and practical protection system for all Nema size low voltage motors.

The system is made up of a current transformer, a micro-processor based controller, a hand held unit and a dual secondary control power transformer.

SAMMS offers motor protection features such as:

- (+/-5% accuracy) overload protection.
- Choice of up to 22 overload protection curves.
- Phase loss/phase unbalance protection.
- Impending overload trip alarm.
- Lockout on thermal overload trip.
- Undercurrent/loss of load protection.
- Mechanical jam protection.
- Process current (load current) alarm.
- Flexibility to change the motor protection settings via the hand held unit.

SAMMS offers programmable control logic. Its design is based on a standard hardware configuration that can be modified by programming the controller's microprocessor. Standard control

devices such as timers, control relays, push-buttons and selector switches which are located in the motor control center are replaced by software and/or the standard pushbuttons and lights on the control panel.

SAMMS offers visual diagnostics. The front panel of the controller has eight diagnostic LED's providing indication of:

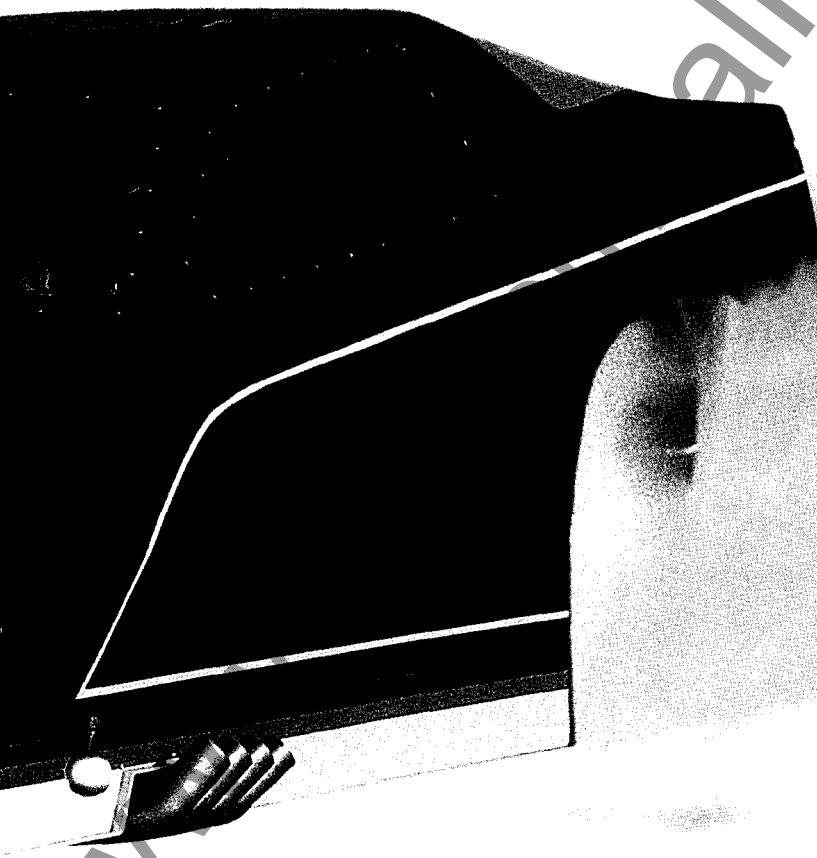
- Current phase unbalance.
- Impending overload trip.
- Overload trip.
- External trip.
- Incomplete sequence.
- Ground fault (available June 1990).
- CPU failure.
- Ready (control power).

Statistical motor data including the elapsed motor running time, number of starts, and number of overload trips, are stored in the micro-processors memory and are displayed using the hand held unit.

The hand held unit can also be used as an ammeter to display any of the three phase motor currents.

Other separate options available are:

- Ground fault protection (available June 1990).
- Loss of voltage ride-through (up to 1 second).
- IBM compatible software package to allow customers to develop customized control circuit logic.
- "Open" architecture communications to a host computer or the Power Monitor™ panel using the ACCESS™ local area network. This allows for control and monitoring of motors from a centralized point. All the information available from SAMMS, such as diagnostics, statistical data, real time metering, and controller status, can be communicated.



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