MOTOR MANAGEMENT SYSTEM

INTEGRAL SOLUTION FOR MCCs ADAPTABLE TO EVERY CUSTOMER NEEDS

MULTIFUNCTION

FAULT REPORTS

4 fault reports with the following information: dates, measurements, status bits, inputs ans outputs.

SELF-DIAGNOSIS, INSTALLATION MONITORING AND STATISTICS

- · Earth toroidal disconnection monitoring.
- PTC sensor open circuit and short circuit detection.
- Magnetic module hardware monitoring.
- Non-volatile memory stored information coherence.
- Number of motor start ups.
- · Medium and maximum current of last start up.
- Number of faults for the following functions: Overload, PTC, JAM, locked rotor and neutral
- Operating hours counter.

TEST MENU

Operation check on LEDs and outputs.

DESIGNED FOR SCADA APPLICATIONS

RTU Modbus protocol and RS485 communication

MODULAR AND SCALABLE

The basic functions of the system can be extended with different modules (PBM H, PBM D...)

COMMUNICATION SOFTWARE PBCom

PBM B







PROTEC TION FUNCTIONS

- θ > Overload with thermal image
- Overheating protection (PTC sensor)
- A Phase imbalance or phase failure
- (F) Phase sequence
- JAM JAM detection
- K Locked rotor detection
- $I_{\rm g}>>$ Instantaneous earth leakage overcurrent
- $I_{
 m g}$ Earth leakage inverse time overcurrent
- $I_0>>$ Instantaneous neutral overcurrent
- I_0 Neutral inverse time overcurrent
- I< Undercurrent</p>





CH ARACTER ISTICS PBM B					
Auxiliary supply	110/230 Vac/dc 24/48 Vcc				
Frequency	50/60/Variable (45-65) Hz				
Range	Adjustable 0,8 - 6 A PBM-B 1 4 - 25 A PBM-B 5 > 25 A PBM-B 1 + 3xTI/1 > 25 A PBM-B 5 + 3xTI/5				
Optional	PBM-H display module HMI				
Inputs	1 x PTC temperature sensor 1 x Toroidal transformer (external earth fault) 1 x Digital input 24 Vdc				
Outputs	2 x NO-NC contact				
Communication	RS485 ModBus RTU				
Signalling	5 signalling LEDs				
Reset model	Manual, automatic and automatic time delayed				
Test	Specific test menu				

CH ARACTER ISTICS PBM H	
LCD Display	20 x 2 alphanumeric characters
Keyboard	9 keys
Communication	RJ45 connector to relay
Signalling	6 configurable signalling LEDs
Reset model	Manual, automatic and automatic time delayed
Test	Specific test menu

CONNECTION CABLES PBM B / PBM H				
Model	CDCNB CDCN1			
Code	17008	17009		
Length*	0,5 m	1 m		

^{*} For other cable lenghts please consult.



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PBM B

BASE MODULE

Current measurement is obtained from the motor line through the magnetic module without need of external current transformers.

From 0,8 up to 25 A with internal current transformers.

Over 25 A with external current transformers.

MODEL LIST

MODULE	В				
PHASE MEASUREMENT		1 5			IB=0,8 - 6 A IB=4 - 25 A
POWER SUPPLY			1 2		110/230 Vac/Vdc 24/48 Vdc
REVISION				0	

PBM H

HMI MODULE

This is an optional display module with an LCD screen for signalling, control and setting.

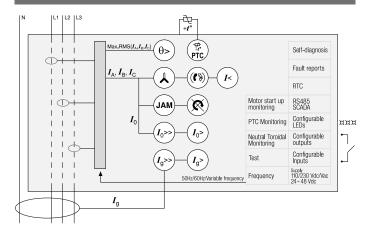
The LEDs can be configured and are identified by labels.

Access to menus is intuitive and direct, making protection system commissioning easier.

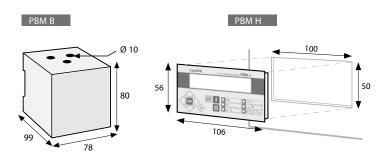
MODEL LIST

MODULE	Н				
НМІ		1			HMI with 6 leds
LANGUAGE			E S F P		English Spanish French Polish
REVISION				0	

FUNCTION DIAGRAM PBM B



DIMENSIONS (mm)



CONNECTION DIAGRAM PBM B

