

Motor Manager® 6

Modular Solutions By Design

Powered by Safety

The electrical power industry is amongst the most safety-conscious groups in the world. Powell's core philosophy of **Powered by Safety**, ensures Powell products and services are designed to reinforce this position by bringing safety-related features to our customers, making switchgear safer to own and operate.

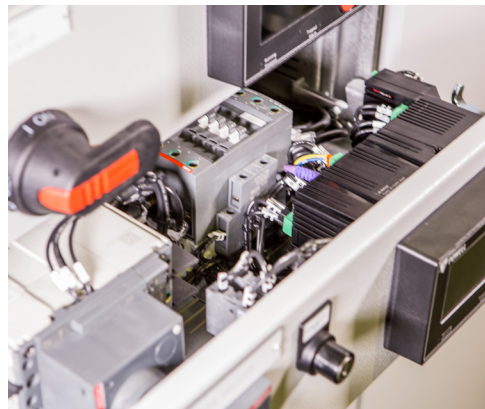
Motor Manager® 6

Motor Manager® 6 is Powell's intelligent product which, by utilising the most advanced microprocessor technology and a truly modular philosophy, offers the most flexible, technically advanced and cost effective protection, control and monitoring functionality available.

Motor Manager® 6 is unique in the degree to which its design has embraced the concept of modularity. The modules attach to each other mechanically by their interlocking mouldings, without the need for additional fixings, and electrically via a Control Area Network (CAN).

The range of available modules includes:

- **SCM Starter Control Module**
- **PMM Protection and Metering Module**
- **CTM CT Module**
- **DCM Display and Control Module**
- **BTM Britespot Module**



Features

Tailored, cost effective, protection, control and monitoring solution for medium and low voltage motors.

Early diagnostic data available through a wide range of industry standard communication protocols support preventative maintenance.

Type test regime which ensures optimum reliability in the harshest environment.

Large colour screen, intuitive menu structure and clear messages facilitates a very user-friendly setup

Benefits

Enhanced protection

Flexibility in project design phase

Increased Plant availability

Reduced Project Civil Costs

Lower cable costs

Centralised Electrical Monitoring and Control

Motor Manager® 6 Upgrades / Modifications

Motor Manager® 6 is an extremely versatile intelligent relay that can support a wide range of upgrade / modification applications such as:

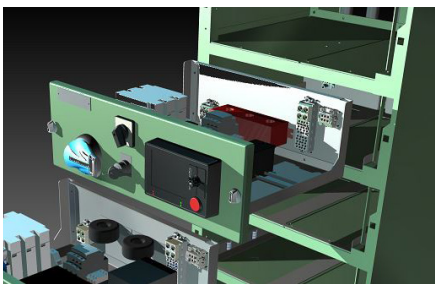
Motor Manager® 1, Motor Manager® 2 & Motor Manager® 5 Relays (Hot swaps)

Even if you decide that you need a Brand new compartment or you wish to modify your existing switchgear Motor Manager® 6 support solutions that require minimum installation time on site, as the Motor Manager® 6 software can successfully integrate the protection settings of the existing Intelligent relay due to an advance software emulation mode that allows the transition “hassle free” with no need of modifications to the Modbus interface to master applications.

S&I / GE Motor Manager® III

Our knowledge of the product and the wide applications we have completed through the years can provide you with the best upgrade solution from the obsolete Motor Manager® III to our latest Motor Manager® 6 and bring your gear and its capabilities to their best performance.

We have also implemented with great success our Motor Manager® 6 in 3rd party switchgear modernisation / retrofit projects with great success.



Whatever your needs, we can offer a solution to fit your expectations and optimise the performance of your existing switchgear.

TESTING AND CERTIFICATION

In keeping with the well-established Powell policy of continuous product development, test and certification, for both its electromechanical and electronic products and systems, Motor Manager® 6 has been subjected to a rigorous test regime to ensure it performs reliably in even the harshest of industrial environments.

Standards		IEC:60068: IEC60255: IEC60529:	Environmental Testing Electrical Relays Degrees of Protection Provided by Enclosures (IP Code)		
Environmental Test Schedule			Min	Max	Units
Ambient Air Temperature	Operational	IEC60068-2-14 IEC60068-2-30	-5 +25	+70 +70	°C °C
	Change of Temperature Damp Heat Cyclic (RH 95%)				
	Non Operational	IEC60068-2-1 IEC60068-2-2	-40 -	- +90	°C °C
	Cold Dry Heat				
Mechanical	Operational	IEC60255-21-1 IEC60255-21-2	- -	1 1	Class Class
	Vibration Shock				
	Non Operational	IEC60255-21-1 IEC60255-21-1 IEC60255-21-2	- - -	1 1 1	Class Class Class
	Vibration				
	Shock				
	Bump				
Conditions Protected Against by Enclosure	SCM, PMM, DIM, AIM, RTM, DCM, OCM	IEC60529 IEC60529	- -	IP20 IP54	- -

Standards		IEC61000-6-4 IEC55022	Electromagnetic Compatibility Radio Disturbance Characteristics		
Electromagnetic Compatibility Test Schedule			Min	Max	Description
Insulation		IEC60255-5	-	2.5kV	Category III
Emissions	Radiated	IEC60255-25	30MHz	100MHz	Class A
	Conducted	IEC60255-25	0.15MHz	30MHz	Class A
Immunity	Electrostatic Discharge	IEC61000-4-2	-	6 kV Contact	Level 3
		IEC60255-22-2	-	8kV Air	
	Radiated RF	IEC61000-4-3 IEC60255-22-3	80MHz	100MHz	Level 3 10 W/m
	Electrical Fast Transients	IEC61000-4-4 IEC60255-22-4	0.5kV	4kV	Level 4
	Surge	IEC61000-4-5 IEC60255-22-5	0.5kV	2kV	Level 3
	Conducted RG	IEC61000-4-5 IEC60255-22-6	0.15kV	80MHz	Level 3 10V
	Power Frequency Magnetic Field	IEC61000-4-8	-	30A/m	Level 4
	Pulse Magnetic Field	IEC61000-4-9	-	300A/m	Level 4
	Voltage Dips & Interruptions	IEC61000-4-11	0%	70%	0.5>50s
	Harmonic Content AC Power Supplies	IEC61000-2-4	-	-	Class 3
	Harmonics & Interharmonics	IEC61000-4-13	-	-	Class 3

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