



EBOMAC
The  ight electrical choice



إبوماك
الاختيار الكهربائي الأمثل

POWER MASTER "PM 200", MOTOR CONTROL CENTER(MCC) (single front/double front, fully drawout/fixed type)



Technical data:

Standard compliance to :

MEW S1/IEC 60439-1	:	Panel construction
IEC 60529	:	Degree of protection
BS 159/IEC	:	Busbars/Connections
IEC 60947	:	Breakers/Contactors/Other components
BS 88/IEC 60269	:	Fuses
BS 142/IEC 60255	:	Electrical protective relays
BS 3938/IEC 60185	:	Current transformers
IEC 60051/BS 89	:	Meterings
And other relevant standards.	:	Kuwait Oil Company(KOC) Specifications Kuwait National Petroleum Co.(KNPC) Specifications

System : 3 Phase & Neutral + Earth

Rated operational voltage & frequency (Ue,f)	:	415/240V*, 50Hz.
Rated insulation voltage (Ui)	:	800V
Rated impulse withstand voltage (Uimp)	:	8 KV
Overvoltage category	:	IV
Pollution degree	:	3

*Other voltages on request.

Fault level rating :

Rated short time withstand current for busbars (Icw)	:	25KA/50KA/65KA for 1sec.
Rated peak withstand current for busbars (Ipk)	:	52.5KA/105KA/143KA
Rated conditional short circuit current (Icc)	:	Upto 65KA

Busbars : Tinned Electrolytic Copper with 99.9% purity(BS 1482)

Marked(BS 159)	:	for phase identification (colour coded or sleeved)
Rating	:	RYB...Upto 3000A(above ratings on request)
	:	N.....50% or 100% of phase busbar
	:	E.....50% of phase busbar

Enclosures :

Material	:	Electro galvanized, Zinc coated steel sheet
Painting	:	Powder coating, Shade RAL-7032, light grey.
Degree of protection(IEC 60529)	:	IP 42 / IP 52 / IP 54 / IP 55
Form of internal separation(IEC 60439-1)	:	Form 2b / Form 3b / Form 4
Cable entry	:	Top or Bottom

PM 200 MCC offers advantages that sets safety & ease of maintenance

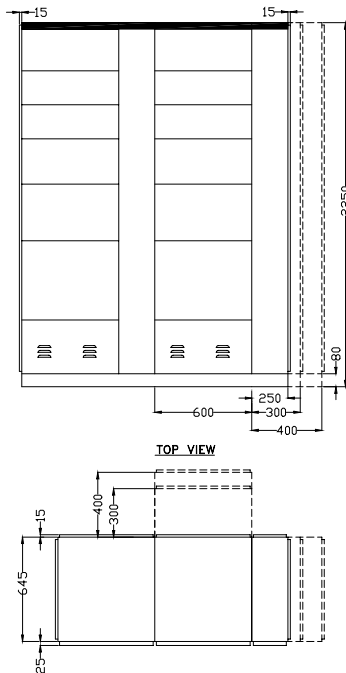
Fixed type design

- Fully Type tested assembly (TTA)
- Compartmentalized 4 functional spaces namely Breaker/starters, Auxiliaries, Busbars, Cable
- Ensure the protection of person against direct contact with live parts
- Safety of operation, due to the impossibility of opening a door of live circuit breaker
- Interchangeability of the elements of the same type
- Modifying breaker rating or changing it without disconnecting the whole assembly
- Standardization of basic components
- Top or Bottom cable entry / Front or Rear access for cable termination.
- Can be attached to MLTB to form a combined Power cum Motor control center

Drawout type design

- Fully Type tested assembly (TTA)
- Fully drawout modules with 3-positions - Service, Test & Isolated
- Positive mechanical indication for service, test & isolated positions.
- Door interlock with compartment door with defeat facility provided.
- Interlock to prevent trolley insertion or withdrawing when incoming MCCB/switch is ON.
- Module shutter can be padlock in closed position when trolley is out of the compartment.
- Trolley can be padlocked in service, test & isolated position.
- Easy interchangeability of trollies of same rating.

STANDARD OVERALL DIMENSIONS FOR MCC



1 DEPTH, 1 WIDTH & 3 SIZES EXTENSIONS.

The Power Master PM 200(MCC) range may be used to build switchboards of various depths & widths by connecting basic frames and extensions;

Basic frame is available in only ONE depth;

- 645mm – Common for incoming & outgoing sections.

Basic frame is available in only ONE width;

- 600mm – Common for fixed & drawout sections.

Side/Rear Extensions in THREE Sizes;

- 250mm – side extension for cable alley.
- 300mm – side or rear extension for cable alley.
- 400mm – (side extension for front cable connection & rear extension for rear cable connection).

➤ Side or rear extension with sizes depends upon the configuration required i.e front or rear excess for cabling, top or bottom busbars, form of separation (form 3 or 4) and no. of cables.

Sizes other than mentioned above available on request and to be co-ordinated with Ebomac design department.

Development is a continuous process thus ebomac reserves the right to change data or design without any prior notice.

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Ref: EBMC/LF-MCC/2002 Vol.1