

BEA MCC

TYPE TESTED MOTOR CONTROL CENTER

Conforms to IEC 60439



Features:

- Separate compartment for Components, Busbars and Cables.
- Switchboard enclosure is made of steel sheet protected by galvanic coating and/or powder coating for maximum durability.
- Main busbar system is arranged in the rear of the switchgear in the busbar compartment.

Benefits:

- One integrated MCC system configurable for all possible customer specifications. It can be provided based on conventional up to sophisticated Intelligent Motor Control System requirements.
- Makes modifications and enhancement of control and protection functions possible at any time and at any project stage during the complete project life cycle. Thus, it provides much needed flexibility for engineers, system integrators and end users.
- Secures customer investments as it provides set up possibilities with future technology developments with the same system.
- Enables flexible usage of spare parts as a result of the system standardization. A very few standard motor starter variants are needed for a complete plant.

BEA MOTOR CONTROL CENTER FULLY WITHDRAWABLE

MAIN BREAKER AND MAIN BUS CONFIGURATION

	RATING										
	100AF	250AF	400AF	630AF	800AF	1000AF	1250AF	1600AF	2000AF	2500AF	3000AF
MAIN BUS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAIN BREAKER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

ENCLOSURE SIZE

RATING (FULLY WITHDRAWABLE)	DIMENSION (mm)		
	HEIGHT	WIDTH	DEPTH
800A - 3000A	2100	1000	1000

MOTOR STARTERS

TYPE OF STARTER	SYSTEM VOLTAGE	NUMBER OF FEEDERS PER VERTICAL SECTION USING MCCB									
		MOTOR RATING (in HP)									
		0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.0	7.5	10.0
DIRECT-ON-LINE (FVNR)	230V	9	9	9	9	9	9	9	9	9	9
	460V	9	9	9	9	9	9	9	9	9	9
REDUCED VOLTAGE (WYE-DELTA)	230V	✓	✓	✓	✓	✓	✓	✓	✓	4	4
	460V	9	9	9	9	9	9	9	9	4	4
		12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	75.0	100.0
DIRECT-ON-LINE (FVNR)	230V	9	9	9	4	4	4	4	✓	✓	✓
	460V	9	9	9	9	9	9	4	4	4	4
REDUCED VOLTAGE (WYE-DELTA)	230V	✓	4	4	4	4	4	4	✓	✓	✓
	460V	✓	4	4	4	4	4	4	4	4	4

TYPE OF STARTER	SYSTEM VOLTAGE	NUMBER OF FEEDERS PER VERTICAL SECTION USING MCS									
		MOTOR RATING (in HP)									
		0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.0	7.5	10.0
DIRECT-ON-LINE (FVNR)	230V	18	18	18	18	18	18	18	18	18	18
	460V	18	18	18	18	18	18	18	18	18	18
REDUCED VOLTAGE (WYE-DELTA)	230V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	460V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	75.0	100.0
DIRECT-ON-LINE (FVNR)	230V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	460V	18	18	18	✓	✓	✓	✓	✓	✓	✓
REDUCED VOLTAGE (WYE-DELTA)	230V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	460V	✓	4	4	✓	✓	✓	✓	✓	✓	✓

Legend: ✓ = available variants

Note: BEA Motor Control Center can also accommodate Variable frequency drives and soft starters. Preferred brand of breakers and starters is Siemens, but can also accommodate other brands.

TECHNICAL SPECIFICATIONS:

- All switchgear are Versa Modular System (VMS) design structures. Bl sheet Ga#14 for the frames and Ga#16 for the enclosure element base on the non-welded framework construction for free standing panel.
- Enclosure protection is IP-40 (Nema 1) for indoor use only, Form 1, standard powder painted gray or wrinkled beige color.
- Uses 99.99% copper busbar of strength E-CUF30, silver plated and bolted at joint with heat shrinkable tube rigidly supported by track resistance polyester glass resin bus support.



BEA MOTOR CONTROL CENTER FIXED COMPARTMENTALIZED

MAIN BREAKER AND MAIN BUS CONFIGURATION

	RATING													
	100AF	250AF	400AF	630AF	800AF	1000AF	1250AF	1600AF	2000AF	2500AF	3000AF	4000AF	5000AF	6000AF
MAIN BUS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAIN BREAKER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

ENCLOSURE SIZE

RATING (FIXED COMPARTMENTALIZED)	DIMENSION (mm)		
	HEIGHT	WIDTH	DEPTH
800A - 2500A	2100	600	600
3000A - 6000A	2100	900	900

MOTOR STARTERS

TYPE OF STARTER	SYSTEM VOLTAGE	NUMBER OF FEEDERS PER VERTICAL SECTION USING MCCB									
		MOTOR RATING (in HP)									
		0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.0	7.5	10.0
DIRECT-ON-LINE (FVNR)	230V	7	7	7	7	7	7	7	7	7	7
	460V	7	7	7	7	7	7	7	7	7	7
REDUCED VOLTAGE (WYE-DELTA)	230V	✓	✓	✓	✓	✓	✓	✓	✓	4	4
	460V	✓	✓	✓	✓	✓	✓	✓	✓	5	5
		12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	75.0	100.0
DIRECT-ON-LINE (FVNR)	230V	7	7	7	5	5	5	5	5	5	✓
	460V	7	7	7	7	7	5	5	5	5	5
REDUCED VOLTAGE (WYE-DELTA)	230V	✓	4	4	4	3	3	3	3	3	3
	460V	✓	4	4	4	4	4	4	3	3	3

TYPE OF STARTER	SYSTEM VOLTAGE	NUMBER OF FEEDERS PER VERTICAL SECTION USING MCS									
		MOTOR RATING (in HP)									
		0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.0	7.5	10.0
DIRECT-ON-LINE (FVNR)	230V	7	7	7	7	7	7	7	7	7	7
	460V	17	7	7	7	7	7	7	7	7	7
REDUCED VOLTAGE (WYE-DELTA)	230V	✓	✓	✓	✓	✓	✓	✓	✓	4	4
	460V	✓	✓	✓	✓	✓	✓	✓	✓	5	5
		12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	75.0	100.0
DIRECT-ON-LINE (FVNR)	230V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	460V	7	7	7	✓	✓	✓	✓	✓	✓	✓
REDUCED VOLTAGE (WYE-DELTA)	230V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	460V	✓	5	5	✓	✓	✓	✓	✓	✓	✓



Manufactured by:



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