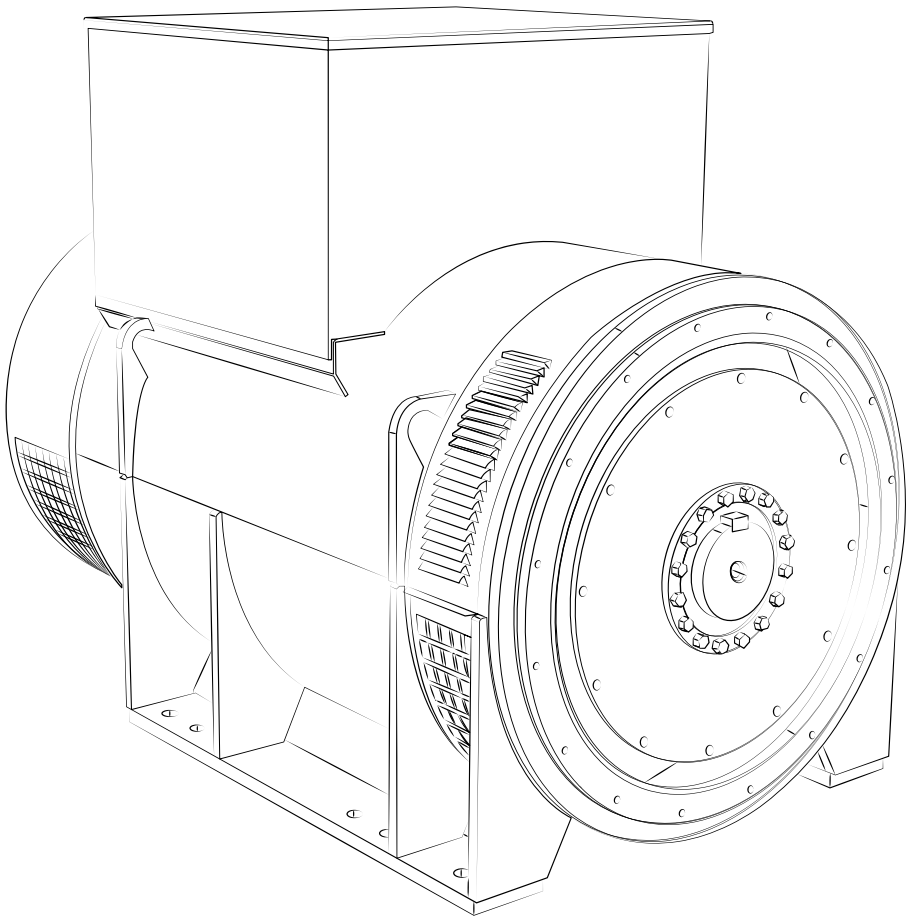
MarelliMotori
Powering the future®



MXB-E • MJB • MJH Generator Series

Product catalogue

COMCATPOW003_= Ed. 10/2020

Power generation

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16 **TECHNICAL DATA MXB-E:**
16 4 pole • 50Hz • 1500rpm and 60Hz • 1800rpm - L.V.
17 4 POLE • 380V / 415V / 440V • 50Hz • 1500rpm - L.V.
18 4 POLE • 380V / 416V / 440V / 460V • 60HZ • 1800rpm - L.V.
20 4 pole • 50Hz • 1500rpm • Single Phase - L.V.
21 4 pole • 60Hz • 1800rpm • Single Phase - L.V.
22 4 pole • 50Hz • 1500rpm • Single Phase - L.V.
23 4 pole • 60Hz • 1800rpm • Single Phase - L.V.
24 **TECHNICAL DATA MJB:**
24 6 pole - 50Hz - 1000rpm and 60Hz - 1200rpm- L.V.
8 pole - 50Hz - 750rpm and 60Hz - 900rpm - L.V.
25 6 pole • 50Hz • 1000rpm - L.V.
8 pole • 50Hz • 750rpm - L.V.
26 6 pole • 60Hz • 1200rpm - L.V.
8 pole • 60Hz • 900rpm - L.V.
28 **TECHNICAL DATA MJH:**
28 4 pole - 50Hz - 1500rpm and 60Hz - 1800rpm - M.V.
29 4 pole - 50Hz - 1500rpm and 60Hz - 1800rpm - H.V.
30 6 pole • 50Hz • 1000rpm and 60Hz • 1200rpm - M.V.
8 pole • 50Hz • 750rpm and 60Hz • 900rpm - M.V.
31 6 pole • 50Hz • 1000rpm and 60Hz • 1200rpm - H.V.
8 pole • 50Hz • 750rpm and 60Hz • 900rpm - H.V.
32 **DIMENSIONS**
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34 MXB-E 225 - single bearing
35 MXB-E 250 - single bearing
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40 MJB 500 - single bearing
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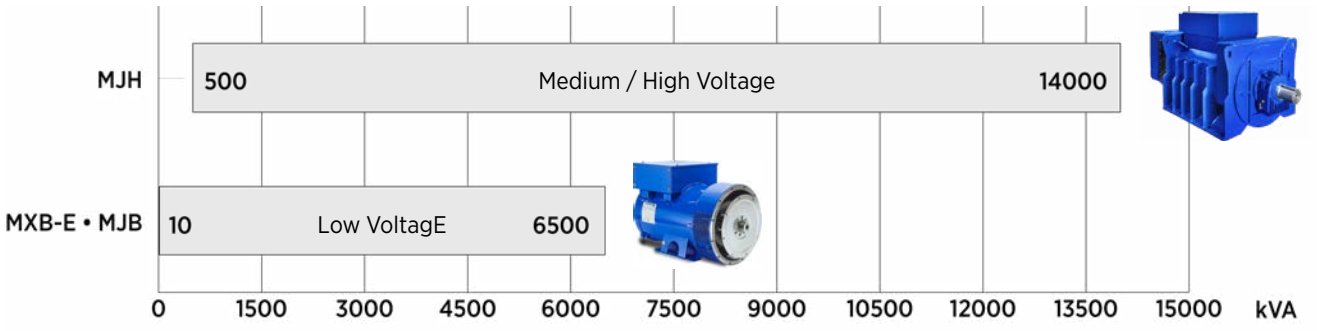
SYNCHRONOUS GENERATORS FOR POWER GENERATION APPLICATIONS

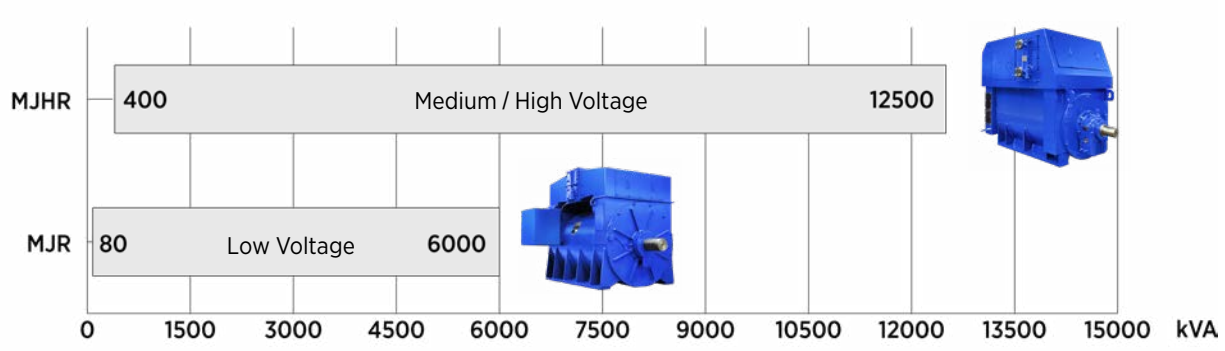
Our product applications include:

- PRIME RATED POWER (PRP) AND CONTINUOUS OPERATING POWER (COP)
- STAND BY
- EMERGENCY
- UNINTERRUPTIBLE POWER SUPPLY (UPS)
- DATA CENTER

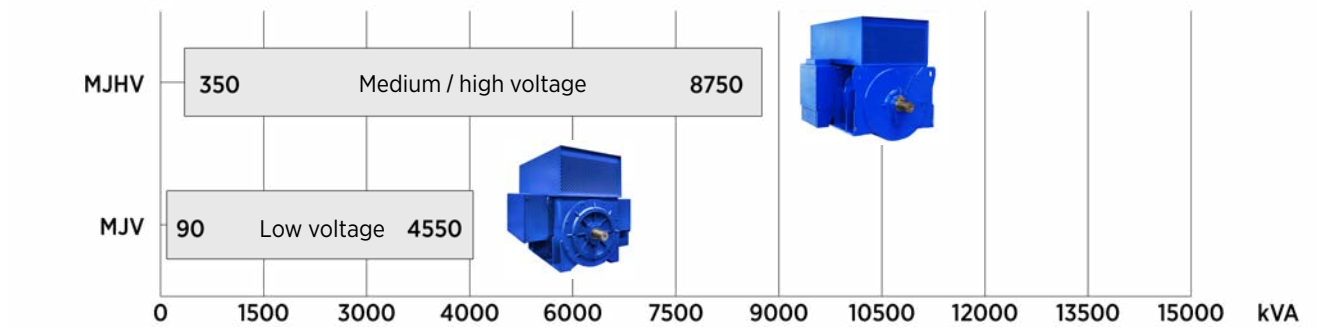
MXB-E • MJB • MJH Series Open Drip Proof • IP23 - IP44



MJR • MJHR Series Totally Enclosed Air To Water Cooled • IP44 - IP55



MJV • MJHV Series Totally Enclosed Air to Air Cooled • IP44 - IP55



RATING DEFINITION

Prime rating

Prime rating is the maximum power available at a variable load for an unlimited number of hours.
Marelli Motori low voltage generators are class H insulated as a standard feature. Under these conditions three different classes of temperature rise are allowed and are here below represented as over-temperature above the reference ambient temperature (reference ambient temperature is 40°C as defined in IEC 60034):

- Class B temperature rise: generator can reach a temperature rise of 80° above 40° ambient temperature
- Class F temperature rise: generator can reach a rise temperature of 105° over 40° ambient temperature
- Class H temperature rise: generator can reach a rise temperature of 125° over 40° ambient temperature

In all the above conditions an extra 10% overload for 1 hour over 6 hours is allowed.
Over-temperatures are measured by resistance method.

Stand-by rating

Stand-by rating is selected for emergency supply in the event of normal power interruption. This duty service is typically limited to the duration of power cut.

When the emergency power is required continuously for more than one hour, our generators can work in accordance with stand-by rating defined as 150/40 or 163/27 (temperature rise/ambient temperature):

- 150/40 refers to peak continuous ratings and it is according to ISO 8528-3.
- 163/27 refers to emergency peak continuous rating. ISO standards do not include this specific rating which is suitable for emergency operations.

Any extra overload over the stand-by ratings is not allowed.

OPERATING CONDITIONS

Altitude

The rated outputs refer to installation up to 1000m a.s.l. Above this level the following derating factors must be applied.

Altitude (m asl)	< 1000	< 1500	< 2000	< 2500	< 3000
K factor	1,00	0,96	0,93	0,90	0,86

Ambient temperature

The rated outputs given in this catalogue are based on a maximum ambient temperature of 40°C.
When operating at different ambient temperatures, the output rating can be obtained by applying the factors as in the following table.

Ambient temperature (°C)	30	35	40	45	50	55
K factor	1,04	1,00	1,00	0,96	0,93	0,9

Power factor

The nominal power factor is 0,8 lagging. For different power factor values the following derating factors must be applied.

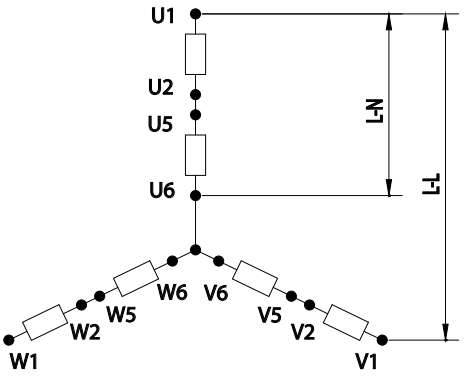
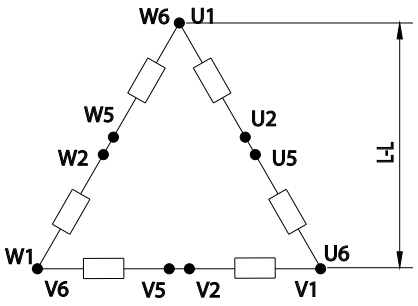
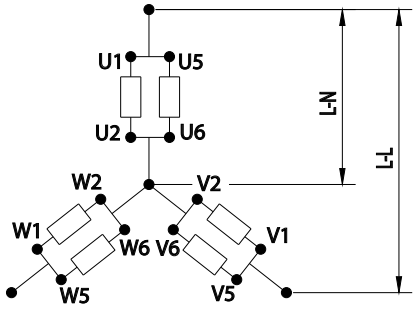
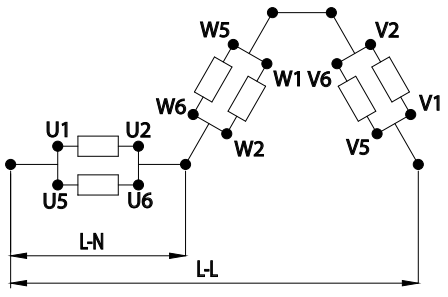
Power factor	1,0	0,8	0,7	0,6	0,5	0,3	0
K factor	1,00	1,00	0,93	0,88	0,84	0,82	0,80

Configuration

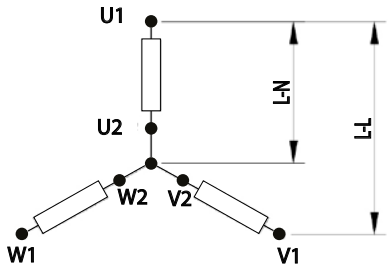
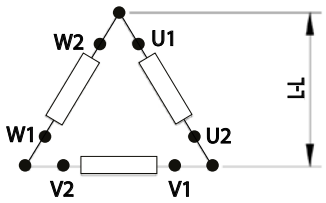
The rated outputs refer to IP23 protection degree with no filters. When filters are mounted, the following derating factors must be applied.

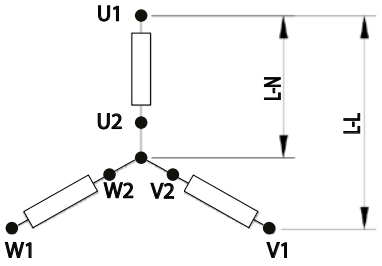
Generator series	K Factor		
	Inlet filter	Inlet + Outlet filter IP 43	Inlet + Outlet filter IP 44
MXB-E	0,95	0,92	0,90
MJB	0,92	0,85	0,80
MJH	0,92	0,85	0,80

MXB-E CONNECTION

12 Leads			
Voltages			**Series Star (High Wye)**
Frequency	**L-L**	**L-N**	
50 Hz	380	220	
	400	230	
	415	240	
	440	254	
60 Hz	380	220	
	416	240	
	440	254	
	460	266	
	480	277	
Voltages			**Series Delta (High Delta)**
Frequency	**L-L**	**L-N**	
50 Hz	220	-	
	230	-	
	240	-	
	254	-	
60 Hz	220	-	
	240	-	
	254	-	
	266	-	
	277	-	
Voltages			**Parallel Star (Low Wye)**
Frequency	**L-L**	**L-N**	
50 Hz	190	110	
	200	115	
	208	120	
	220	127	
60 Hz	190	110	
	208	120	
	220	127	
	230	133	
	240	138	
Voltages			**Zig - Zag**
Frequency	**L-L**	**L-N**	
50 Hz	220	110	
	230	115	
	240	120	
60 Hz	220	110	
	240	120	
	254	127	
	266	133	

MJB CONNECTIONS

6 Leads			
Voltages			Star (Wye)
Frequency	L-L	L-N	
50 Hz	380	220	
	400	230	
	415	240	
60 Hz	416	240	
	440	254	
	460	266	
	480	277	
Voltages			Delta (Delta)
Frequency	L-L	L-N	
50 Hz	220	-	
	230	-	
	240	-	
60 Hz	240	-	
	254	-	
	266	-	
	277	-	

6 Leads (690 V)		
Voltages		Star (Wye)
Frequency	L-L	
50 Hz	690	
60 Hz	690	

AVR SELECTION TABLE • Low Voltage

AVR type		Analogue						Digital		
		MARK VX	MARK XX	MGC I	MGC II	MARK I - UL	MARK X	MEC 20	D-Vo	D-Vo Light
Code		11000013	11000328	10001467	10004378	10007369	10005161	11000317	10024470	10024471
Generator frame size	Standard	160 - 250	160 - 250	500 ÷ 560	630 ÷ 800	-	-	315 ÷ 450	≥ 800	-
	On request	-	-	-	-	315 ÷ 450 UL	500 ÷ 560	160 ÷ 250	160 ÷ 710	
AVR supply		Auxiliary winding	PMG	Mains		Auxiliary windings	PMG	Auxiliary winding, mains, PMG		
Voltage sensing		Single phase				Three phase			Single phase standard, Three phase on request	
Voltage remote control		Arrangement								
Radio interference suppressor		Internal							Arrangement for external filters	
Over-excitation device		-	-	Arrangement for VARICOMP						
Parallel operation with the mains		-	-	Arrangement for external A.P.F.R.					Internal	
Parallel operation with similar generators		-	-	Arrangement						
Standard protections		-	-	-	-	Over excitation			Field over-current, field over-voltage, Generator over/under voltage, Generator over-current, Loss of sensing	
Limiters		Under-frequency							Under-frequency, Over/Under-excitation	
Functions		-	-	Auxiliary inputs					PC interface, Modbus TCP, FRT function, Soft start, Aux. inputs, Contact inputs, DMS	PC interface, Soft start, Aux. inputs, Contact inputs, DMS

AVR SELECTION TABLE • Medium / High Voltage

AVR type		Analogue			Digital			
		MGC I	MGC II	MARK X	D-Vo		D-Vo Light	
Code		110001467	110004378	10005161	10024470		10024471	
Generator voltage		≤6900V			≤6900V	>6900V	≤6900V	>6900V
Generator frame size	Standard	400 ÷ 560	630 ÷ 800+	-	-	-	-	400 ÷ 800+
	On request	-	-	-	400 ÷ 800+		400 ÷ 800+	-
	PMG	-	-	400 ÷ 560	630 ÷ 800+	-	opt. 400 ÷ 800+	-
	UL	-	-	-	400 ÷ 800+		-	-
	Grid code	-	-	-	400 ÷ 800+		-	-
AVR possible supply		Mains		PMG	Mains, Auxiliary winding, PMG	PMG	Mains, Auxiliary winding, PMG	PMG
Voltage sensing		Single phase		Three phase [1]	Three phase [1]			
Voltage remote control		Arrangement			Arrangement			
Radio interference suppressor		Internal			Arrangement for external filters			
Over-excitation device		Arrangement for VARICOMP [2]		PMG	Arrangement for VARICOMP / PMG			
Parallel operation with the mains		Arrangement for external A.P.F.R.			Internal			
Parallel operation with similar generators		Arrangement			Arrangement			
Standard protections		-		Field over-current	Field over-current, field over-voltage, Generator over/under voltage, Generator over-current, Loss of sensing			
Limiters		Under-frequency			Under-frequency, Over/Under-excitation			
Functions		Auxiliary inputs			PC interface, soft start, auxiliary inputs, contact inputs, DMS			
					Modbus TCP FRT function		- -	
Certifications		-	-	-	DNV-GL UL		DNV-GL	

[1] Single-phase sensing is standard for all MJH generators, three-phase sensing is optional.
[2] VARICOMP already supplied in the standard configuration.

MXB-E • Low Voltage • STANDARD CONFIGURATION

Applicable standards	Generator frame size			
	160	**180**	**225**	**250**
Standards	IEC 60034-1; BS 4999-5000; NEMA MG 1.32			
Certifications	UL 1004-1, UL 1004-4, C22.2 No. 100			
Construction	**160**	**180**	**225**	**250**
Enclosure	Open Drip Proof			
Cooling system	IC01 as per IEC 60034-6			
Degree of protection	IP23 as per IEC 60034-5			
Mounting	Horizontal single bearing	IM 2105 horizontal single bearing / IM 2101 double bearing available on request		
Insulation system	Class H for stator and rotor			
Main components	**160**	**180**	**225**	**250**
Magnetic steel	Low losses. Insulated on both sides			
Housing	Fabricated steel			
N-End Endshield	Aluminum alloy			Cast iron
D-End Endshield	n/a	Cast iron		
SAE Adaptor	Aluminum	SAE 3: Aluminum SAE 2 / SAE 4: Cast iron	Cast iron	
Shaft	Steel according to EN 10025			
Fan	Polyamide	X / S: Polyamide M / L: Aluminum	Aluminum	Aluminum
Fan blades	Bidirectional			
Main terminal box	Fabricated steel			
Position of main terminal box	On top			
Terminal board – Material of the support	Bakelite			
Terminal board – Leads	12			
Terminal board – Terminals	7-pin M8		X / S / M: 9-pin M8 L: 9-pin M12	9-pin M12
Cable entry	On the right side when seen from D-End, undrilled plate			
Rotor, balancing and vibration grade	Salient pole type. Rotors are dynamically balanced with a half key applied to the shaft extension in accordance with IEC 60034-14 to vibration grade normal A			
Impregnation	Epoxy resin through high quality process			
Winding pitch	2/3 (standard winding and 60Hz dedicated)			
Bearing data	**160**	**180**	**225**	**250**
Bearing type – D-End	n/a	6311-2RS1-C3-LTH23	6215-2RS1-C3-WT	6218-C3
Bearing type – N-End	6207-2RS1-C3	6207-2RS1-C3	1-bearing: 6309-2RS1-C3 2-bearing: 6309-2RS1-C3-WT	6313-2Z-C3
Bearing lifetime	≥20000 hours			
Excitation system	**160**	**180**	**225**	**250**
Excitation type	Brushless with rotating rectifier (Graetz 6-Diode bridge with EMI filter)			
AVR Position	On left side when seen from D-End		Front mounted	
Power supply to the AVR	Mains			
Overboosting system (optional)	Auxiliary winding / PMG			
Three-phase short circuit current	Generators with auxiliary winding or PMG ensure a three-phase short-circuit current (Icc) higher than 3 times the rated current (In): Icc > 3In for 10 seconds			
Operation at reduced speed	All regulators work to reduce the excitation current in order to protect the excitation system when the generator is used at reduced speed			
Accuracy	±0,5% (@ rated load, balanced and non-distorting, p.f. = 0,8)			
EMI filter	Included			
Operating conditions	**160**	**180**	**225**	**250**
Maximum overspeed	2250 rpm			
Direction of rotation	Clockwise			
Overload during S1 continuous duty	10% for 1 hour / 15% for 10 minutes / 30% for 4 minutes / 50% for 2 minutes These overloads must be occasional and followed by one hour of running at normal load			
Air inlet	Axial and radial			
Radio interference	Radio interference Class B Group 1 as EN 55011			
THD / THF	Typically THD <2% at no load / THF <2%			
Parallel operations	All MXB-E generators are provided with an amply sized damper cage and are suitable for parallel operations with other generators, when equipped with the paralleling unit (available from 180 frame and above)			
Winding treatment	Standard winding impregnation for non-aggressive environment with relative humidity ≤95%. Special treatment on windings for aggressive environment and relative humidity higher than 95% on request			
Characteristics of options*	**160**	**180**	**225**	**250**
Anticondensation heaters [V / Hz / W]	230 / 50-60 / 30	230 / 50-60 / 45	230 / 50-60 / 125	230 / 50-60 / 125
PTC operating temperatures for H / F / B temp. rise [°C]	170 / 155 / 130			
Standard painting process	F96833			

* when provided n/a: not available.

MXB-E • Low Voltage • OPTIONS

ID	Description	Generator frame size			
		160	180	225	250
100	Double Bearing configuration	n/a	o	o	o
101	Auxiliary winding	o	o	o	o
102	6-lead winding	n/a	n/a	o	o
107	Anti-condensation heaters	o	o	o	o
109	N. 3 CT single core on neutral point	n/a	n/a	n/a	o
110	N. 3 PTC thermistors	o	o	o	o
111	Special voltage including 380V 60Hz dedicated winding	o	o	o	o
112	N. 3 PT100 resistance temperature detectors in stator windings	n/a	o	o	o
113	Separate auxiliary terminal box	n/a	o	o	o
117	Provision for parallel operation with similar generators with AVR(1)	n/a	o*	o	o
120	N. 1 PT100 on N-End bearing	o	o	o	o
121	N. 1 PT100 duplex type on N-End bearing	n/a	o	o	o
125	Special shaft extension	n/a	n/a	n/a	x
126	Second shaft extension (Ø60 L=105mm)	n/a	n/a	n/a	o
128	N. 1 PT100 duplex type on D-End bearing (for double bearing configuration)	n/a	o	o	o
129	N. 1 PT100 on D-End bearing (for double bearing configuration)	n/a	o	o	o
140	Non-magnetic exit cable panel	n/a	n/a	n/a	o
143	Special housing	n/a	x	x	x
156	N-End grease nipple	n/a	n/a	n/a	o
157	D-End grease nipple	n/a	n/a	o	o
159	Single-phase sensing AVR (Mark VX), side mounted	s	s	o	o
160	Single-phase sensing AVR (Mark VX), front mounted	n/a	o*	s	s
161	Three-phase sensing AVR (MEC-20), side mounted(1)	n/a	o*	o	o
162	Three-phase sensing AVR (MEC-20), front mounted(1)	n/a	o*	n/a	o
163	PMG with single-phase AVR (Mark XX), side mounted	o	o	o	n/a
164	PMG with single-phase AVR (Mark XX), front mounted	n/a	o*	o	n/a
165	PMG with three-phase AVR (MEC-20), side mounted(1)	n/a	o*	o	o
166	PMG with three-phase AVR (MEC-20), front mounted(1)	n/a	o*	n/a	o
167	PMG with digital AVR (D-Vo) mounted on board (standard on right side)	n/a	n/a	n/a	o
168	Digital AVR (D-Vo) mounted on board (standard on right side)	n/a	n/a	n/a	o
169	Analogue automatic power factor regulator (mounted on board)(1)	n/a	n/a	n/a	o
210	Inlet filter	n/a	o	o	o
211	Inlet + outlet filter (IP43)	n/a	o	o	o
212	Inlet + outlet filter (IP44)	n/a	o	o	o
213	IP55 Terminal Box	o	o	o	o**
215	Large Terminal Box	n/a	o	n/a	n/a
217	Tropicalization (CW1081)	o	o	o	o
919	Painting colour different from RAL9005 and RAL5010	o	o	o	o
928	Finishing painting colour RAL 9005 Black or RAL 5010 Blue(2) (F96833)	o	o	o	o
930	Special painting process (F96819)	o	o	o	o
932	Special painting process (F96827)	o	o	o	o

(1) Option not covered by UL certification.
(2) Standard generator not painted.
*This option includes also Large Terminal Box (Opt. No. 215).
** 10% derating must be applied on H temperature rise class rating.

o: optional
n/a: not available
s: standard
x: contact Marelli Motori

MJB • Low Voltage • STANDARD CONFIGURATION

Construction		Generator frame size							
		315	**355**	**400**	**450**	**500**	**560**	**630**	**710**
Applicable standards		IEC 60034-1; BS 4999-5000; NEMA MG 1.32							
Enclosure		Open Drip Proof							
Cooling system		IC01 as per IEC 60034-6							
Degree of protection		IP23 as per IEC 60034-5							
Mounting		IM 2105 single bearing / IM 2101 double bearing						IM 2101 double bearing	
Insulation system		Class H for stator and rotor							
Main components		**315**	**355**	**400**	**450**	**500**	**560**	**630**	**710**
Magnetic steel		Low losses. Insulated on both sides							
Housing		Fabricated steel							
N-End Endshield		Cast iron							Fabricated steel
D-End Endshield									
SAE Adaptor		Cast iron						n/a	
Shaft		Steel according to EN 10025							
Fan		Aluminum			Aluminum (4 poles) / Steel (>4 poles)			Steel	
Main terminal box		Fabricated steel							
Position of main terminal box		On top							On the right side when seen from D-End
Terminal board	Leads	6							
	Terminals	6							
Rotor		Salient pole type. Made by copper flat wire. Rotors are dynamically balanced with a half key applied to the shaft extension in accordance with IEC 60034-14 to vibration grade normal A							
Impregnation		Epoxy resin / Polyester resin through VPI process						Polyester resin through VPI process	
Winding pitch		2/3 (4 poles) / Depending on generator model (>4 poles)							(*)
Bearing data		**315**	**355**	**400**	**450**	**500**	**560**	**630**	**710**
Bearing type	D-End	6319-C3	6322-C3	6324-C3	6326-C3	6328-C3	6332-C3	NU234-EC-M-C3 + SF6234-M-C3	4 poles: NU236-EC-M-C3 + SF6236-M-C3 >4 poles: NU240-EC-M-C3 + SF6240-M-C3
	N-End	6315-2Z-C3	6317-2Z-C3	6318-Z-C3	6318-Z-C3	6326-C3	6330-C3	NU234-EC-M-C3	4 poles: NU236-EC-M-C3 >4 poles: NU240-EC-M-C3
Bearing lifetime		20000 hours			50000 hours			100000 hours	
Grease nipple	D-End	Included							
	N-End	Not included			Included				
N-End insulated bearing		Not included		Included (>8 poles)		Included (>10 poles)		Included (>6 poles)	
Excitation system		**315**	**355**	**400**	**450**	**500**	**560**	**630**	**710**
Excitation type		Brushless with rotating rectifier (Graetz 6-Diode bridge with EMI filter and surge suppressor)							
Overboosting system		Auxiliary winding (4 poles) Varicomp (>4 poles)				Varicomp			
Operating conditions		**315**	**355**	**400**	**450**	**500**	**560**	**630**	**710**
Overload during S1 continuous duty		10% for 1 hour / 15% for 10 minutes / 30% for 4 minutes / 50% for 2 minutes These overloads must be occasional and followed by one hour of running at normal load							
Operation at reduced speed		All regulators work to reduce the excitation current in order to protect the excitation system when the generator is used at reduced speed							
Transient ratings		All generators can be designed to meet specific reactance values (X'd and X''d)							
Air inlet		Advanced axial		Axial and radial					
Damper cage		Rotor is provided with large sized damper cage							
Radio interference		Radio interference Class B Group 1 as EN 55011							
THD		Typically THD <2% at no load							
Parallel operations		All MJB generators are provided with an amply sized damper cage and are suitable for parallel operations with other generators							
Winding treatment		Standard winding impregnation for non-aggressive environment with relative humidity ≤95% up to 355 frame. Special treatment on windings for aggressive environment and relative humidity higher than 95% on request on 315 and 355 generator frames, as standard from 400 frame and above							

* Winding pitch optimised on generator model.

MJB • Low Voltage • OPTIONS

ID		Description	Generator frame size							
			315	355	400	450	500	560	630	710
101		Auxiliary winding for power supply to AVR and overboosting	o	o	s[1]	n/a	n/a	n/a	n/a	n/a
103		12 leads winding	o	o[2]	o	n/a	n/a	n/a	n/a	n/a
108		Anti-condensation heaters, with terminals in main terminal box	o	o	o	o	s	s	s	s
108	113	Anti-condensation heaters, with terminals in auxiliary terminal box	o	o	o	o	o	o	o	o
110		N. 3 PT1000 in stator windings with terminals in main terminal box	o	o	o	o	o	o	o	o
111		N. 3 PTC in stator windings	o	o	o	o	o	o	o	o
111	113	N. 3 PTC in stator windings with terminals in auxiliary terminal box	o	o	o	o	o	o	o	o
112		N. 3 PT100 in stator windings with terminals in main terminal box	o	o	o	o	o	o	o	o
112	113	N. 3 PT100 in stator windings with terminals in auxiliary terminal box	o	o	o	o	o	o	o	o
113		Separate auxiliary terminal box	o	o	o	o	o	o	o	o
117		Provision for parallel operation with similar generators	s	s	s	s	s	s	s	s
122		N. 1 PT100 on one bearing	o	o	o	o	o	o	o	o
123		N. 1 PT100 duplex type on one bearing	o	o	o	o	o	o	o	o
124		N. 1 PT1000 on one bearing	o	o	o	o	o	o	o	o
125		N. 1 PT1000 duplex type on one bearing	o	o	o	o	o	o	o	o
126		N. 1+1 PT100 on air inlet/outlet	x	x	o	o	o	o	o	o
136		D-End special shaft extension	o	o	o	o	o	o	o	x
138		N-End grease nipple	o	o	o	s	s	s	s	s
139		D-End grease nipple	s	s	s	s	s	s	s	s
140		Second shaft extension	o	o	o	o	o	o	o	o
141		Flanged shaft extension	n/a	n/a	o	o	o	o	o	o
142		Arrangement for vibration sensor on one support	x	x	o	o	o	o	o	o
143		Reinforced frame for high vibration levels	x	x	x	x	x	x	x	x
144		B5 adaptor	o	o	o	o	o	o	o	o
162		Three phase sensing with dedicated AVR mounted	s	s	s	s	x	x	x	x
166		PMG with dedicated AVR	o	o	o	o	o	o	n/a	n/a
167	113	PMG with digital AVR (D-Vo) mounted	o	o	o	o	o	o	o	o
168	113	Digital AVR D-Vo mounted on board	o	o	o	o	o	o	o	o
169	113	APFC mounted	o	o	o	o	o	o	o	o
171	113	PMG with digital AVR (D-Vo Light) mounted	o	o	o	o	o	o	o	o
172	113	Digital AVR (D-Vo Light) mounted on board	o	o	o	o	o	o	o	o
-		12 diodes rotating rectifier	x	x	o	o	o	o	o	o
175	113	N. 3 CT single core on neutral point (only available with 6 leads gen.)	x	x	o	o	o	o	o	o
180[3]		Insulated N-End bearing	o	o	o	o	o	o	s	s
181		D-End insulated bearing+earthing brush	o	o	o	o	o	o	o	o
184		64R - brush conn. to rotor for earth fault detect. (w/o prot. device)	o	o	o	o	o	o	o	o
203		Sleeve bearings	n/a	n/a	o	o	o	o	o	o
210		Inlet filter (IP23)	o	o	o	o	o	o	o	o
211		Inlet + outlet filter (IP43)	o	o	o	o	o	o	o	o
212		Inlet + outlet filter (IP44)	o	o	o	o	o	o	o	o
213		IP55 terminal box	o	o	o	o	o	o	o	o
214		Non magnetic exit cable panel	o	o	o	o	o	o	o	o
216		Separate neutral point terminal box	o	o	o	o	o	o	o	s
217		Tropicalisation (CW1081)	o	o	s	s	s	s	s	s
304		Special voltage	o	o	o	o	o	n/a	n/a	n/a
919		Painting colour different from RAL9005 and RAL5010	o	o	o	o	o	o	o	o
928		Finishing painting colour RAL 9005 Black or RAL 5010 Blue[4] (F96833)	o	o	s	s	s	s	s	s
930		Special painting process (F96819)	o	o	o	o	o	o	o	o
932		Special painting process (F96827)	o	o	o	o	o	o	o	o

[1] Standard only on 4-pole low voltage generators.
[2] MJB355MB4 with 6 lead winding only.
[3] Opt. No. 180 is standard on all 8-pole generators.
[4] Standard 315÷355 frame generators not painted.

o: optional
n/a: not available
s: standard
x: contact Marelli Motori

MJH • Medium / High Voltage • STANDARD CONFIGURATION

Construction		Generator frame size						
		400	**450**	**500**	**560**	**630**	**710**	**800**
Applicable standards		IEC 60034-1; BS 4999-5000; NEMA MG 1.32						
Enclosure		Open Drip Proof						
Cooling system		IC01 as per IEC 60034-6						
Degree of protection		IP23 as per IEC 60034-5						
Mounting		IM 2105 Horizontal single bearing / IM 2101 double bearing available on request				IM 2101 double bearing		
Insulation system	stator	≤6900V: Class F / >6900V: Class H						
	rotor	Class H						
Main components		**400**	**450**	**500**	**560**	**630**	**710**	**800**
Magnetic steel		Low losses. Insulated on both sides						
Housing		Fabricated steel						
N-End Endshield		Cast iron					Fabricated steel	
D-End Endshield		Cast iron					Fabricated steel	
SAE Adaptor		Cast iron				n/a		
Shaft		Steel according to EN 10025						
Fan		1500rpm-1800rpm generators: Aluminum Other speed values: Steel				Steel		
Fan blades		Bidirectional						
Main terminal box		Fabricated steel						
Position of main terminal box		On top						
Terminal board		6 leads / 6 terminals						
Cable entry		On the right side when seen from D-End, undrilled plate						
Rotor, balancing and vibration grade		Salient pole type. Rotors are dynamically balanced with a half key applied to the shaft extension in accordance with IEC 60034-14 to vibration grade normal A.						
Impregnation		Polyester resin through VPI process						
Winding pitch		Optimised, depending on generator model						
Bearing data		**400**	**450**	**500**	**560**	**630**	**710**	**800**
Bearing type	D-End	6324-C3	6326-C3	6328-C3	6332-C3	NU234-EC-M-C3 + SF6234-M-C3	4-pole: NU236-EC-M-C3 + SF6236-M-C3 >4-pole: NU240-EC-M-C3 + SF6240-M-C3	NU244-EC-M-C3 + SF6244-M-C3
	N-End	6318-Z-C3	6318-Z-C3	6326-C3	6330-C3	NU234-EC-M-C3	4-pole: NU236-EC-M-C3 >4-pole: NU240-EC-M-C3	NU244-EC-M-C3
Bearing lifetime		50000 hours						
N-End insulated bearing		Not included				Included		
Excitation system		**400**	**450**	**500**	**560**	**630**	**710**	**800**
Excitation type		Brushless with rotating rectifier (Graetz 6-Diode bridge with EMI filter and surge suppressor)						
AVR position		Back mounted						
Power Supply to the AVR	≤6900V	Auxiliary winding (not for overboosting)						
	>6900V	PMG						
Overboosting system	≤6900V	Varicomp						
	>6900V	PMG						
Three-phase short circuit current		Icc > 3In for 10 seconds						
Operation at reduced speed		All regulators work to reduce the excitation current in order to protect the excitation system when the generator is used at reduced speed						
EMI filter		Included						
Operating conditions		**400**	**450**	**500**	**560**	**630**	**710**	**800**
Ambient temperature		-15°C/+40°C (0°C/+40°C for sleeve bearings or rated power > 3300 kVA)						
Maximum overspeed		1,2 x rated speed					1,2 x rated speed (4-pole: different design between 50Hz and 60Hz)	1,2 x rated speed
Direction of rotation		Clockwise						
Overload during S1 continuous duty		10% for 1 hour / 15% for 10 minutes / 30% for 4 minutes / 50% for 2 minutes These overloads must be occasional and followed by one hour of running at normal load						
Air inlet		Axial and radial						
Radio interference		Radio interference Class B Group 1 as EN 55011						
THD		Typically THD < 2% at no load						
Parallel operations		All MJB generators are provided with an amply sized damper cage and are suitable for parallel operations with other generators						
Winding treatment		All MJH stator windings are treated with a protective coat for relative humidity higher than 95%						
Characteristics of options*		**400**	**450**	**500**	**560**	**630**	**710**	**800**
Anticondensation heaters [V / Hz / W]		230 / 50-60 / 400				230 / 50-60 / 600		230 / 50-60 / 800
PTC operating temperatures for H / F / B temp. rise [°C]		170 / 155 / 130						
Standard painting process		F96833						

* when provided

MJH • Medium / High Voltage • OPTIONS

ID		Description	Generator frame size						
			400	450	500	560	630	710	800
108		Anti-condensation heaters, with terminals in main terminal box	o	o	o	o	o	o	o
108	113	Anti-condensation heaters, with terminals in auxiliary terminal box	s	s	s	s	s	s	s
110		N. 3 PT1000 in stator windings with terminals in main terminal box	o	o	o	o	o	o	o
111		N. 3 PTC in stator windings	o	o	o	o	o	o	o
111	113	N. 3 PTC in stator windings with terminals in auxiliary terminal box	o	o	o	o	o	o	o
112		N. 3 PT100 in stator windings with terminals in main terminal box	o	o	o	o	o	o	o
112	113	N. 3 PT100 in stator windings with terminals in auxiliary terminal box	s	s	s	s	s	s	s
113		Separate auxiliary terminal box	s	s	s	s	s	s	s
117		Provision for parallel operation with similar generators	s	s	s	s	s	s	s
122		N. 1 PT100 on one bearing	o	o	o	o	s	s	s
123		N. 1 PT100 duplex type on one bearing	o	o	o	o	o	o	o
124		N. 1 PT1000 on one bearing	o	o	o	o	o	o	o
125		N. 1 PT1000 duplex type on one bearing	o	o	o	o	o	o	o
126		N. 1+1 PT100 on air inlet/outlet	o	o	o	o	o	o	o
136		D-End special shaft extension	o	o	o	o	o	o	o
138		N-End grease nipple	o	s	s	s	s	s	s
139		D-End grease nipple	s	s	s	s	s	s	s
140		Second shaft extension	o	o	o	o	o	o	o
141		Flanged shaft extension	o	o	o	o	o	o	o
142		Arrangement for vibration sensor on one support	o	o	o	o	o	o	o
143		Reinforced frame for high vibration levels	x	x	x	x	o	o	o
144		B5 adaptor	o	o	o	o	o	o	o
166		PMG with dedicated AVR	o	o	o	o	o	o	o
167	113	PMG with digital AVR (D-Vo) mounted	o	o	o	o	o	o	o
168	113	Digital AVR D-Vo mounted on board	o	o	o	o	o	o	o
169	113	APFC mounted	o	o	o	o	o	o	o
170		Three phase sensing with digital AVR (D-Vo) mounted	x	x	o	o	o	o	o
171	113	PMG with digital AVR (D-Vo Light) mounted[1]	o	o	o	o	o	o	o
172	113	Digital AVR (D-Vo Light) mounted on board[1]	o	o	o	o	o	o	o
173		Three phase sensing with digital AVR (D-Vo Light) mounted	x	x	o	o	o	o	o
-		12 diodes rotating rectifier	o	o	o	o	o	o	o
175	113	N. 3 CT single core on neutral point (only available with 6 leads gen.)	o	o	o	o	o	o	o
180[2]		Insulated N-End bearing	o	o	o	o	s	s	s
181		D-End insulated bearing+earthing brush	o	o	o	o	o	o	o
184		64R - brush conn. to rotor for earth fault detect. (w/o prot. device)	o	o	o	o	o	o	o
193	113	Digital AVR (UNITROL 1005) mounted on board	o	o	o	o	o	o	o
194	113	Digital AVR (UNITROL 1010) mounted on board	o	o	o	o	o	o	o
195	113	Digital AVR (UNITROL 1020) mounted on board	o	o	o	o	o	o	o
197	113	Digital AVR (BASLER 150) mounted on board	o	o	o	o	o	o	o
203		Sleeve bearings	o	o	o	o	o	o	o
210		Inlet filter (IP23)	o	o	o	o	o	o	o
211		Inlet + outlet filter (IP43)	o	o	o	o	o	o	o
212		Inlet + outlet filter (IP44)	o	o	o	o	o	o	o
213		IP55 terminal box	o	o	o	o	o	o	o
214		Non magnetic exit cable panel	o	o	o	o	o	o	o
216		Separate neutral point terminal box	o	o	o	o	o	o	o
304		Special voltage	o	o	o	o	o	o	o
305		Insulation class H	o	o	o	o	o	o	o
919		Painting colour different from RAL9005 and RAL5010	o	o	o	o	o	o	o
928		Finishing painting colour RAL 9005 Black or RAL 5010 Blue (F96833)	s	s	s	s	s	s	s
930		Special painting process (F96819)	o	o	o	o	o	o	o
932		Special painting process (F96827)	o	o	o	o	o	o	o

[1] Standard on generators with Vn >6900V.
[2] Opt. No. 180 is standard on all 8-pole generators.

o: optional
n/a: not available
s: standard
x: contact Marelli Motori

TECHNICAL DATA: 4 pole • 50Hz • 1500rpm and 60Hz • 1800rpm L.V.

Type	Leads	400V / 50Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 ΔT cl. H	105/40 ΔT cl. F	80/40 ΔT cl. B	Stand-by 163/27	150/40	Efficiency 4/4 pf = 0,8 125/40 [%]	480V / 60Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 ΔT cl. H	105/40 ΔT cl. F	80/40 ΔT cl. B	Stand-by 163/27	150/40	Efficiency 4/4 pf = 0,8 125/40 [%]	Inertia B3 Approx. J [Kg m^2]	Weight B3 Approx. [Kg]
4 POLES		**50Hz • 1500rpm**						**60Hz • 1800rpm**							**IP 23**
MXB-E 160 XA4	12	10.0	9.2	8.0	11.0	10.5	79.0	12.5	11.5	10.0	13.8	13.1	81.1	0,09	83
MXB-E 160 SA4	12	12.5	11.5	10.0	13.8	13.1	80.0	15.6	14.3	12.5	17.2	16.4	81.9	0,10	88
MXB-E 160 MX4	12	15.0	13.7	12.0	16.5	15.8	83.0	18.8	17.2	15.0	20.6	19.7	84.5	0,11	97
MXB-E 160 MA4	12	17.5	16.0	14.0	19.3	18.4	82.7	21.9	20.0	17.5	24.1	23.0	84.3	0,12	102
MXB-E 160 LA4	12	20.0	18.3	16.0	22.0	21.0	85.4	25.0	22.9	20.0	27.5	26.3	86.8	0,14	116
MXB-E 180 XS4	12	25.0	22.9	20.0	27.5	26.3	85.2	31.3	28.6	25.0	34.4	32.8	86.7	0,20	125
MXB-E 180 XB4	12	30.0	27.5	24.0	33.0	31.5	87.0	37.5	34.4	30.0	41.3	39.4	88.2	0,22	137
MXB-E 180 SB4	12	34.0	31.2	27.2	37.4	35.7	87.0	42.5	39.0	34.0	46.8	44.6	88.3	0,23	145
MXB-E 180 SC4	12	40.0	36.7	32.0	44.0	42.0	88.0	50.0	45.8	40.0	55.0	52.5	89.2	0,26	156
MXB-E 180 MA4	12	45.0	41.2	36.0	49.5	47.3	88.9	56.3	51.6	45.0	61.9	59.1	89.9	0,30	181
MXB-E 180 MC4	12	50.0	45.8	40.0	55.0	52.5	89.3	62.5	57.3	50.0	68.8	65.6	90.3	0,32	189
MXB-E 180 LB4	12	65.0	59.6	52.0	71.5	68.3	90.0	81.3	74.5	65.0	89.4	85.3	90.8	0,40	234
MXB-E 225 XA4	12	70	64	56	77	74	88.3	88	80	70	96	92	89.0	0,71	280
MXB-E 225 XB4	12	80	73	64	88	84	88.9	100	92	80	110	105	89.8	0,78	296
MXB-E 225 SB4	12	100	92	80	110	105	90.4	125	115	100	138	131	91.2	0,92	335
MXB-E 225 MA4	12	120	110	96	132	126	91.0	150	137	120	165	158	91.8	1,07	377
MXB-E 225 MB4	12	135	124	108	149	142	92.0	169	155	135	186	177	92.4	1,17	407
MXB-E 225 LA4	12	150	137	120	165	158	91.9	188	172	150	206	197	92.6	1,25	434
MXB-E 225 LB4	12	165	151	132	182	173	92.4	206	189	165	227	217	93.1	1,80	471
MXB-E 250 SA4	12	180	165	144	198	189	91.8	225	206	180	248	236	92.4	1,56	513
MXB-E 250 SB4	12	200	183	160	220	210	92.0	250	229	200	275	263	92.7	1,64	541
MXB-E 250 MA4	12	230	211	184	253	242	92.2	288	263	230	316	302	92.9	1,89	599
MXB-E 250 MB4	12	250	229	200	275	263	92.8	313	286	250	344	328	93.4	2,09	652
MXB-E 250 LA4	12	275	252	220	302	289	93.0	344	315	275	378	361	93.5	2,56	780
MXB-E 250 LB4	12	300	275	240	330	315	93.4	375	344	300	413	394	93.9	2,56	783
MJB 315 SB4	6	350	320	280	385	371	93,4	425	389	340	467	450	94,0	4,25	920
MJB 315 MA4	6	410	376	328	451	435	93,7	500	458	400	550	530	94,2	4,80	1060
MJB 315 MB4	6	450	412	360	500	477	94,0	550	504	440	605	583	94,8	5,68	1200
MJB 355 SA4	6	510	467	408	561	540	94,0	625	573	500	687	662	94,5	7,97	1250
MJB 355 SB4	6	570	522	456	627	604	94,6	695	637	556	764	736	95,1	9,29	1550
MJB 355 MA4	6	680	623	544	750	720	94,7	825	756	660	907	874	95,1	11,69	1800
MJB 355 MB4	6	800	733	640	880	848	95,0	960	880	768	1056	1020	95,3	13,12	2050
MJB 400 MA4	6	930	852	744	1023	986	95,2	1175	1077	940	1300	1245	95,7	16,3	2250
MJB 400 MB4	6	1050	962	840	1155	1110	95,3	1320	1210	1055	1450	1400	95,7	17,0	2300
MJB 400 LA4	6	1150	1050	920	1265	1220	95,6	1420	1300	1135	1560	1500	96,0	19,3	2550
MJB 400 LB4	6	1300	1190	1040	1430	1380	95,8	1625	1490	1300	1790	1720	96,3	22,5	2800
MJB 450 MB4	6	1500	1375	1200	1650	1590	95,9	1800	1650	1440	1980	1900	96,3	29,0	3200
MJB 450 LA4	6	1650	1500	1320	1815	1750	96,0	1980	1815	1580	2180	2100	96,3	34,0	3600
MJB 450 LB4	6	1875	1720	1500	2065	2000	96,2	2250	2062	1800	2475	2385	96,4	38,0	4000
MJB 500 SC4	6	2000	1830	1600	2200	2120	96,1	2400	2200	1920	2640	2540	96,5	44,2	4000
MJB 500 MB4	6	2200	2000	1760	2420	2330	96,2	2635	2415	2100	2900	2790	96,5	50,0	4400
MJB 500 MC4	6	2300	2100	1840	2530	2440	96,3	2700	2470	2160	2970	2860	96,2	54,4	4800
MJB 500 LA4	6	2500	2290	2000	2750	2650	96,4	3000	2750	2400	3300	3180	96,7	59,0	5100
MJB 560 MA4	6	2730	2500	2180	3000	2890	96,4	3125	2860	2500	3440	3310	96,5	77,5	6000
MJB 560 LA4	6	3200	2930	2560	3520	3400	96,5	3680	3370	2940	4050	3900	96,6	95,3	6450
MJB 630 MB4(1)	6	3300	3000	2640	3630	3500	96,6	3800	3480	3040	4175	4020	96,7	138	7500
MJB 630 LA4(1)	6	3625	3320	2900	-(*)	-(*)	96,4	4140	3795	3310	-(*)	-(*)	96,8	146	8100
MJB 630 LB4(1)	6	3800	3480	3040	-(*)	-(*)	96,8	4560	4180	3650	-(*)	-(*)	96,5	155	9000
MJB 710 SC4(1)	6	4000	3666	3200	-(*)	-(*)	96,6	4400	4030	3520	-(*)	-(*)	96,6	210	12100

(1) 690V recommended .

* Power outputs which need a special generator design. Please contact Marelli Motori for specific requests.

TECHNICAL DATA: 4 POLE • 380V/415V/440V • 50Hz • 1500rpm L.V.

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C]															Efficiency 4/4 pf = 0,8		
		Continuous duty									Stand-by								
		125/40 ΔT cl. H			105/40 ΔT cl. F			80/40 ΔT cl. B			163/27			150/40			125/40 [%]		
		380V	415V	440V	380V	415V	440V	380V	415V	440V	380V	415V	440V	380V	415V	440V	380V	415V	440V
4 POLES		50 Hz - 1500 rpm																	IP 23
MXB-E 160 XA4	12	9,5	10,0	9,0	8,7	9,2	8,2	7,6	8,0	7,2	10,5	11,0	9,9	10,0	10,5	9,5	79,6	78,3	76,6
MXB-E 160 SA4	12	11,9	12,5	11,3	10,9	11,5	10,4	9,5	10,0	9,0	13,1	13,8	12,4	12,5	13,1	11,9	79,7	80,1	80,2
MXB-E 160 MX4	12	14,2	15,0	14,0	13,0	13,7	12,8	11,4	12,0	11,2	15,6	16,5	15,4	14,9	15,8	14,7	82,9	83,0	82,9
MXB-E 160 MA4	12	16,6	17,5	16,0	15,2	16,0	14,7	13,3	14,0	12,8	18,3	19,3	17,6	17,5	18,4	16,8	82,7	82,8	82,9
MXB-E 160 LA4	12	19,0	20,0	19,0	17,4	18,3	17,4	15,2	16,0	15,2	20,9	22,0	20,9	20,0	21,0	20,0	85,3	85,6	85,5
MXB-E 180 XS4	12	24,3	25,0	22,5	22,2	22,9	20,6	19,4	20,0	18,0	26,7	27,5	24,8	25,5	26,3	23,6	85,1	85,3	85,1
MXB-E 180 XB4	12	29,1	30,0	28,5	26,7	27,5	26,1	23,3	24,0	22,8	32,0	33,0	31,4	30,6	31,5	29,9	86,8	87,3	87,4
MXB-E 180 SB4	12	32,0	34,0	30,6	29,3	31,2	28,0	25,6	27,2	24,5	35,2	37,4	33,7	33,6	35,7	32,1	86,9	87,3	87,7
MXB-E 180 SC4	12	38,0	38,6	36,0	34,8	35,3	33,0	30,4	30,8	28,8	41,8	42,4	39,6	39,9	40,5	37,8	87,8	88,4	88,8
MXB-E 180 MA4	12	43,0	45,0	40,5	39,4	41,2	37,1	34,4	36,0	32,4	47,3	49,5	44,6	45,2	47,3	42,5	88,8	88,9	88,9
MXB-E 180 MC4	12	48,5	50,0	45,0	44,5	45,8	41,2	38,8	40,0	36,0	53,4	55,0	49,5	50,9	52,5	47,3	89,2	89,4	89,5
MXB-E 180 LB4	12	63,0	63,0	60,0	57,7	57,7	55,0	50,4	50,4	48,0	69,3	69,3	66,0	66,2	66,2	63,0	89,9	90,2	90,1
MXB-E 225 XA4	12	66,5	70,0	63,0	60,9	64,2	57,7	53,2	56,0	50,4	73,2	77,0	69,3	69,8	73,5	66,2	88,5	89,2	90,0
MXB-E 225 XB4	12	76,0	80,0	72,0	69,7	73,3	66,0	60,8	64,0	57,6	83,6	88,0	79,2	79,8	84,0	75,6	89,1	89,7	90,5
MXB-E 225 SB4	12	95,0	100,0	95,0	87,1	91,7	87,1	76,0	80,0	76,0	104,5	110,0	104,5	99,8	105,0	99,8	90,1	90,6	91,1
MXB-E 225 MA4	12	114,0	120,0	108,0	104,5	110,0	99,0	91,2	96,0	86,4	125,4	132,0	118,8	119,7	126,0	113,4	90,8	91,3	91,9
MXB-E 225 MB4	12	128,0	135,0	121,5	117,3	123,7	111,4	102,4	108,0	97,2	140,8	148,5	133,7	134,4	141,8	127,6	91,8	92,3	92,8
MXB-E 225 LA4	12	145,0	150,0	142,5	132,9	137,5	130,6	116,0	120,0	114,0	159,5	165,0	156,8	152,3	157,5	149,6	91,6	92,1	92,3
MXB-E 225 LB4	12	155,0	160,0	150,0	142,1	146,6	137,5	124,0	128,0	120,0	170,5	176,0	165,0	162,8	168,0	157,5	92,3	92,6	92,9
MXB-E 250 SA4	12	180,0	180,0	162,0	165,0	165,0	148,5	144,0	144,0	129,6	198,0	198,0	178,2	189,0	189,0	170,1	91,4	91,9	92,1
MXB-E 250 SB4	12	200,0	192,0	180,0	183,3	176,0	165,0	160,0	153,6	144,0	220,0	211,2	198,0	210,0	201,6	189,0	91,6	92,4	92,8
MXB-E 250 MA4	12	230,0	230,0	207,0	210,8	210,8	189,7	184,0	184,0	165,6	253,0	253,0	227,7	241,5	241,5	217,4	91,9	92,3	92,7
MXB-E 250 MB4	12	240,0	240,0	220,0	220,0	220,0	201,6	192,0	192,0	176,0	264,0	264,0	242,0	252,0	252,0	231,0	92,7	93,0	92,9
MXB-E 250 LA4	12	275,0	264,0	247,5	252,0	242,0	226,8	220,0	211,2	198,0	302,5	290,4	272,3	288,8	277,2	259,9	93,0	92,9	92,0
MXB-E 250 LB4	12	300,0	288,0	270,0	275,0	264,0	247,5	240,0	230,4	216,0	330,0	316,8	297,0	315,0	302,4	283,5	93,4	93,3	92,5
MJB 315 SB4	6	350	350	-	321	321	-	280	280	-	385	385	-	371	371	-	93,2	93,4	-
MJB 315 MA4	6	410	410	-	376	376	-	328	328	-	451	451	-	435	435	-	93,4	93,6	-
MJB 315 MB4	6	450	450	-	412	412	-	360	360	-	495	495	-	477	477	-	93,9	94,1	-
MJB 355 SA4	6	490	510	-	449	467	-	392	408	-	539	561	-	519	541	-	93,5	94,1	-
MJB 355 SB4	6	570	570	-	522	522	-	456	456	-	627	627	-	604	604	-	94,2	94,7	-
MJB 355 MA4	6	680	680	-	623	623	-	544	544	-	748	748	-	721	721	-	94,4	94,8	-
MJB 355 MB4	6	800	800	-	733	733	-	640	640	-	880	880	-	848	848	-	94,9	95,1	-
MJB 400 MA4	6	930	930	-	852	852	-	744	744	-	1023	1023	-	986	986	-	94,9	95,2	-
MJB 400 MB4	6	1020	1050	-	935	962	-	816	840	-	1122	1155	-	1081	1113	-	95,1	95,4	-
MJB 400 LA4	6	1150	1150	-	1054	1050	-	920	920	-	1265	1265	-	1219	1219	-	95,5	95,7	-
MJB 400 LB4	6	1300	1300	-	1192	1190	-	1040	1040	-	1430	1430	-	1378	1378	-	95,6	95,9	-
MJB 450 MB4	6	1460	1500	-	1338	1375	-	1170	1200	-	1606	1650	-	1548	1590	-	95,7	96,0	-
MJB 450 LA4	6	1600	1650	-	1466	1500	-	1280	1320	-	1760	1815	-	1696	1749	-	95,8	96,1	-
MJB 450 LB4	6	1830	1880	-	1677	1720	-	1464	1500	-	2013	2068	-	1940	1993	-	96,1	96,2	-
MJB 500 SC4	6	1970	2000	-	1800	1830	-	1576	1600	-	2167	2200	-	2088	2120	-	96,1	96,2	-
MJB 500 MB4	6	2200	2200	-	2000	2000	-	1760	1760	-	2420	2420	-	2332	2332	-	96,2	96,2	-
MJB 500 MC4	6	2300	2300	-	2100	2100	-	1800	1840	-	2530	2530	-	2430	2430	-	96,3	96,3	-
MJB 500 LA4	6	2500	2500	-	2290	2290	-	2000	2000	-	2750	2750	-	2650	2650	-	96,4	96,5	-
MJB 560 MA4	6	2550	2650	-	2340	2430	-	2040	2120	-	2805	2915	-	2703	2809	-	96,3	96,4	-
MJB 560 LA4	6	3100	3200	-	2840	2930	-	2480	2560	-	3410	3520	-	3286	3392	-	96,4	96,5	-
MJB 630 MB4(1)	6	3300	3300	-	3025	3025	-	2640	2640	-	3630	3630	-	3498	3498	-	96,2	96,3	-
MJB 630 LA4(1)	6	3625	3625	-	3320	3320	-	2900	2900	-	-(*)	-(*)	-	-(*)	-(*)	-	96,3	96,4	-
MJB 630 LB4(1)	6	3800	3800	-	3480	3480	-	3040	3040	-	-(*)	-(*)	-	-(*)	-(*)	-	96,7	96,8	-
MJB 710 SC4(1)	6	3800	4000	-	3483	3666	-	3040	3200	-	-(*)	-(*)	-	-(*)	-(*)	-	96,6	96,7	-

- : Connection not available.

(1) 690V recommended.

* Power outputs which need a special generator design. Please contact Marelli Motori for specific requests.

TECHNICAL DATA: 4 POLE • 380V/416V/440V/460V • 60Hz • 1800rpm L.V.

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 ΔT cl. H				105/40 ΔT cl. F				80/40 ΔT cl. B				Efficiency 4/4 pf = 0,8 125/40 [%]			
		380V	416V	440V	460V	380V	416V	440V	460V	380V	416V	440V	460V	380V	416V	440V	460V
4 POLES		60 Hz - 1800 rpm															IP 23
MXB-E 160 XA4	12	10,0	10,8	11,5	12,0	9,2	9,9	10,5	11,0	8,0	8,7	9,2	9,6	80,5	81,3	81,5	81,5
MXB-E 160 SA4	12	12,5	13,5	14,3	15,0	11,5	12,4	13,1	13,7	10,0	10,8	11,5	12,0	79,7	80,9	81,4	81,7
MXB-E 160 MX4	12	15,0	16,3	17,2	18,0	13,7	14,9	15,8	16,5	12,0	13,0	13,8	14,4	82,9	83,8	84,2	84,4
MXB-E 160 MA4	12	17,5	19,0	20,1	21,0	16,0	17,4	18,4	19,2	14,0	15,2	16,0	16,8	82,7	83,6	84,0	84,3
MXB-E 160 LA4	12	20,0	21,7	22,9	24,0	18,3	19,9	21,0	22,0	16,0	17,3	18,3	19,2	85,2	86,1	86,4	86,6
MXB-E 180 XS4	12	25,0	27,1	28,6	29,9	22,9	24,8	26,3	27,4	20,0	21,7	22,9	24,0	85,4	86,1	86,5	86,7
MXB-E 180 XB4	12	30,0	32,5	34,4	35,9	27,5	29,8	31,5	32,9	24,0	26,0	27,5	28,8	86,7	87,5	87,9	88,1
MXB-E 180 SB4	12	34,0	36,8	39,0	40,7	31,2	33,8	35,7	37,3	27,2	29,5	31,2	32,6	86,8	87,5	87,9	88,1
MXB-E 180 SC4	12	40,0	43,3	45,8	47,9	36,7	39,7	42,0	43,9	32,0	34,7	36,7	38,3	87,6	88,4	88,7	89,0
MXB-E 180 MA4	12	45,0	48,8	51,6	53,9	41,2	44,7	47,3	49,4	36,0	39,0	41,3	43,1	88,9	89,5	89,7	89,9
MXB-E 180 MC4	12	50,0	54,2	57,3	59,9	45,8	49,6	52,5	54,9	40,0	43,3	45,8	47,9	89,3	89,9	90,1	90,3
MXB-E 180 LB4	12	65,0	70,4	74,5	77,9	59,6	64,5	68,3	71,4	52,0	56,3	59,6	62,3	89,7	90,3	90,6	90,7
MXB-E 225 XA4	12	70,0	75,8	80,2	83,9	64,2	69,5	73,5	76,9	56,0	60,7	64,2	67,1	88,1	88,8	89,2	89,5
MXB-E 225 XB4	12	80,0	86,7	91,7	95,8	73,3	79,4	84,0	87,8	64,0	69,3	73,3	76,7	88,8	89,5	89,9	90,2
MXB-E 225 SB4	12	100,0	108,3	114,6	119,8	91,7	99,3	105,0	109,8	80,0	86,7	91,7	95,8	89,7	90,4	90,7	91,0
MXB-E 225 MA4	12	120,0	130,0	137,5	143,8	110,0	119,1	126,0	131,7	96,0	104,0	110,0	115,0	90,5	91,1	91,4	91,6
MXB-E 225 MB4	12	135,0	146,3	154,7	161,7	123,7	134,0	141,8	148,2	108,0	117,0	123,8	129,4	91,5	92,1	92,0	92,2
MXB-E 225 LA4	12	150,0	162,5	171,9	179,7	137,5	148,9	157,5	164,7	120,0	130,0	137,5	143,8	91,5	92,0	92,3	92,4
MXB-E 225 LB4	12	165,0	178,8	189,1	197,7	151,2	163,8	173,3	181,2	132,0	143,0	151,3	158,1	92,1	92,6	92,8	93,0
MXB-E 250 SA4	12	180,0	195,0	206,3	215,6	165,0	178,7	189,0	197,6	144,0	156,0	165,0	172,5	91,5	92,0	92,2	92,4
MXB-E 250 SB4	12	200,0	216,7	229,2	239,6	183,3	198,6	210,0	219,6	160,0	173,3	183,3	191,7	91,5	92,1	92,3	92,6
MXB-E 250 MA4	12	230,0	249,2	263,5	275,5	210,8	228,4	241,5	252,5	184,0	199,3	210,8	220,4	91,8	92,4	92,6	92,8
MXB-E 250 MB4	12	250,0	270,8	286,5	299,5	229,1	248,2	262,5	274,5	200,0	216,7	229,2	239,6	92,6	93,0	93,2	93,3
MXB-E 250 LA4	12	275,0	297,9	315,1	329,4	252,0	273,0	288,8	301,9	220,0	238,3	252,1	263,5	93,2	93,5	93,6	93,6
MXB-E 250 LB4	12	300,0	325,0	343,8	359,4	275,0	297,9	315,1	329,4	240,0	260,0	275,0	287,5	93,5	93,9	94,0	94,0
MJB 315 SB4	6	360	370	400	420	330	339	367	385	288	296	320	336	92,8	93,3	93,5	93,7
MJB 315 MA4	6	420	430	470	490	385	394	431	449	336	344	376	392	93,3	93,7	93,9	94,1
MJB 315 MB4	6	460	480	520	540	422	440	477	495	368	384	416	432	94,1	94,4	94,5	94,7
MJB 355 SA4	6	510	540	570	610	467	495	522	559	408	432	456	488	93,0	93,4	93,7	94,0
MJB 355 SB4	6	600	645	665	685	550	591	610	628	480	516	532	548	93,9	94,4	94,7	94,9
MJB 355 MA4	6	700	740	775	805	642	678	710	738	560	592	620	644	94,3	94,6	94,9	95,0
MJB 355 MB4	6	800	880	920	950	733	807	843	871	640	704	736	760	95,1	95,2	95,2	95,2
MJB 400 MA4	6	930	1070	1120	1120	852	981	1027	1027	744	856	896	896	95,0	95,0	95,3	95,5
MJB 400 MB4	6	1020	1200	1250	1250	935	1100	1146	1146	816	960	1000	1000	95,8	95,3	95,5	95,6
MJB 400 LA4	6	1150	1320	1370	1400	1050	1210	1250	1280	920	1050	1100	1120	95,8	95,6	95,8	95,9
MJB 400 LB4	6	1300	1450	1520	1560	1190	1330	1400	1430	1040	1160	1220	1250	95,8	95,8	96,0	96,2
MJB 450 MB4	6	1460	1620	1720	1800	1340	1480	1580	1650	1170	1300	1380	1440	96,0	96,0	96,1	96,3
MJB 450 LA4	6	1600	1740	1840	1920	1470	1590	1690	1760	1280	1390	1470	1540	96,0	96,0	96,1	96,3
MJB 450 LB4	6	1700	2000	2100	2200	1560	1830	1920	2020	1360	1600	1680	1760	96,1	96,1	96,3	96,4
MJB 500 SC4	6	1900	2220	2280	2330	1740	2030	2090	2140	1520	1780	1820	1860	95,7	96,1	96,3	96,4
MJB 500 MB4	6	2150	2430	2500	2550	1970	2230	2290	2340	1720	1940	2000	2040	95,8	96,3	96,4	96,5
MJB 500 MC4	6	2190	2480	2530	2650	2000	2270	2300	2400	1750	2000	2020	2100	95,9	96,4	96,5	96,5
MJB 500 LA4	6	2400	2810	2900	3000	2200	2580	2660	2750	1920	2250	2320	2400	96,4	96,5	96,6	96,6
MJB 560 MA4	6	-	2900	2910	3050	-	2660	2670	2800	-	2320	2330	2440	-	96,2	96,3	96,4
MJB 560 LA4	6	-	3320	3470	3660	-	3040	3180	3350	-	2660	2780	2930	-	96,4	96,4	96,5
MJB 630 MB4(1)	6	-	3600	3795	3795	-	3300	3480	3480	-	2880	3040	3040	-	96,3	96,5	96,6
MJB 630 LA4(1)	6	-	3925	3840	4140	-	3600	3520	3800	-	3140	3070	3300	-	96,4	96,9	96,7
MJB 630 LB4(1)	6	-	4740	5000	5240	-	4340	4580	4800	-	3800	4000	4200	-	96,5	96,7	96,8
MJB 710 SC4(1)	6	-	4580	4840	5060	-	4200	4440	4640	-	3650	3870	4050	-	96,4	96,6	96,6

- : Connection not available.

(1) 690V recommended.

* Power outputs which need a special generator design. Please contact Marelli Motori for specific requests.

TECHNICAL DATA: 4 POLE • 380V/416V/440V/460V • 60Hz • 1800rpm L.V.

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Stand-by 163/27				150/40			
		380V	416V	440V	460V	380V	416V	440V	460V
4 POLES		60 Hz - 1800 rpm							IP 23
MXB-E 160 XA4	12	11,0	11,9	12,6	13,2	10,5	11,4	12,0	12,6
MXB-E 160 SA4	12	13,8	14,9	15,8	16,5	13,1	14,2	15,0	15,7
MXB-E 160 MX4	12	16,5	17,9	18,9	19,8	15,8	17,1	18,0	18,9
MXB-E 160 MA4	12	19,3	20,9	22,1	23,1	18,4	19,9	21,1	22,0
MXB-E 160 LA4	12	22,0	23,8	25,2	26,4	21,0	22,8	24,1	25,2
MXB-E 180 XS4	12	27,5	29,8	31,5	32,9	26,3	28,4	30,1	31,4
MXB-E 180 XB4	12	33,0	35,8	37,8	39,5	31,5	34,1	36,1	37,7
MXB-E 180 SB4	12	37,4	40,5	42,9	44,8	35,7	38,7	40,9	42,8
MXB-E 180 SC4	12	44,0	47,7	50,4	52,7	42,0	45,5	48,1	50,3
MXB-E 180 MA4	12	49,5	53,6	56,7	59,3	47,3	51,2	54,1	56,6
MXB-E 180 MC4	12	55,0	59,6	63,0	65,9	52,5	56,9	60,2	62,9
MXB-E 180 LB4	12	71,5	77,5	81,9	85,7	68,3	73,9	78,2	81,8
MXB-E 225 XA4	12	77,0	83,4	88,2	92,2	73,5	79,6	84,2	88,0
MXB-E 225 XB4	12	88,0	95,3	100,8	105,4	84,0	91,0	96,3	100,6
MXB-E 225 SB4	12	110,0	119,2	126,0	131,8	105,0	113,8	120,3	125,8
MXB-E 225 MA4	12	132,0	143,0	151,3	158,1	126,0	136,5	144,4	150,9
MXB-E 225 MB4	12	148,5	160,9	170,2	177,9	141,8	153,6	162,4	169,8
MXB-E 225 LA4	12	165,0	178,8	189,1	197,7	157,5	170,6	180,5	188,7
MXB-E 225 LB4	12	181,5	196,6	208,0	217,4	173,3	187,7	198,5	207,5
MXB-E 250 SA4	12	198,0	214,5	226,9	237,2	189,0	204,8	216,6	226,4
MXB-E 250 SB4	12	220,0	238,3	252,1	263,5	210,0	227,5	240,6	251,6
MXB-E 250 MA4	12	253,0	274,1	289,9	303,1	241,5	261,6	276,7	289,3
MXB-E 250 MB4	12	275,0	297,9	315,1	329,4	262,5	284,4	300,8	314,5
MXB-E 250 LA4	12	302,5	327,7	346,6	362,4	288,8	312,8	330,9	345,9
MXB-E 250 LB4	12	330,0	357,5	378,1	395,3	315,0	341,3	360,9	377,3
MJB 315 SB4	6	396	407	440	462	382	392	440	445
MJB 315 MA4	6	462	473	517	539	445	456	517	519
MJB 315 MB4	6	506	528	572	594	488	509	572	572
MJB 355 SA4	6	561	594	627	671	541	572	627	647
MJB 355 SB4	6	660	710	732	754	636	684	732	726
MJB 355 MA4	6	770	814	853	886	742	784	853	853
MJB 355 MB4	6	880	968	1012	1045	848	933	1012	1007
MJB 400 MA4	6	1023	1177	1232	1232	986	1134	1232	1187
MJB 400 MB4	6	1122	1320	1375	1375	1081	1272	1375	1325
MJB 400 LA4	6	1265	1450	1500	1540	1220	1400	1500	1480
MJB 400 LB4	6	1430	1595	1670	1700	1380	1540	1670	1655
MJB 450 MB4	6	1610	1780	1890	1980	1550	1720	1890	1910
MJB 450 LA4	6	1760	1910	2020	2110	1700	1840	2020	2040
MJB 450 LB4	6	1870	2200	2310	2420	1800	2120	2310	2330
MJB 500 SC4	6	2090	2440	2510	2560	2010	2350	2510	2470
MJB 500 MB4	6	2370	2670	2750	2810	2280	2580	2750	2700
MJB 500 MC4	6	2400	2730	2780	2900	2320	2640	2680	2800
MJB 500 LA4	6	2640	3090	3190	3300	2540	2980	3190	3180
MJB 560 MA4	6	-	3190	3200	3360	-	3070	3200	3230
MJB 560 LA4	6	-	3650	3820	4030	-	3520	3820	3880
MJB 630 MB4(1)	6	-	3960	4170	4170	-	3820	4170	4020
MJB 630 LA4(1)	6	-	-(*)	-(*)	-(*)	-	-(*)	-(*)	-(*)
MJB 630 LB4(1)	6	-	-(*)	-(*)	-(*)	-	-(*)	-(*)	-(*)
MJB 710 SC4(1)	6	-	-(*)	-(*)	-(*)	-	-(*)	-(*)	-(*)

- : Connection not available.

(1) 690V recommended.

* Power outputs which need a special generator design. Please contact Marelli Motori for specific requests.

TECHNICAL DATA: 4 pole • 50Hz • 1500rpm • Single Phase L.V.

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C]															Efficiency 4/4 pf = 0,8		
		Continuous duty									Stand-by								
		125/40 ΔT cl. H			105/40 ΔT cl. F			80/40 ΔT cl. B			163/27			150/40			125/40 [%]		
		190V	200V	208V	190V	200V	208V	190V	200V	208V	190V	200V	208V	190V	200V	208V	190V	200V	208V
4 POLES		**50Hz - 1500 rpm - Single Phase - YY Connection**																	**IP 23**
MXB-E 160 XA4	12	5,6	5,9	5,9	5,1	5,4	5,4	4,5	4,7	4,7	6,2	6,5	6,5	5,9	6,2	6,2	70,7	70,1	69,4
MXB-E 160 SA4	12	7,0	7,4	7,4	6,4	6,8	6,8	5,6	5,9	5,9	7,7	8,1	8,1	7,4	7,7	7,7	72,7	72,6	72,6
MXB-E 160 MX4	12	8,4	8,9	8,9	7,7	8,1	8,1	6,7	7,1	7,1	9,2	9,7	9,7	8,8	9,3	9,3	75,2	75,0	74,8
MXB-E 160 MA4	12	9,8	10,3	10,3	9,0	9,5	9,5	7,8	8,3	8,3	10,8	11,4	11,4	10,3	10,8	10,8	76,4	76,2	76,0
MXB-E 160 LA4	12	11,2	11,8	11,8	10,3	10,8	10,8	9,0	9,4	9,4	12,3	13,0	13,0	11,8	12,4	12,4	79,1	79,1	79,1
MXB-E 180 XS4	12	14,3	14,8	14,8	13,1	13,5	13,5	11,4	11,8	11,8	15,7	16,2	16,2	15,0	15,5	15,5	79,6	79,6	79,4
MXB-E 180 XB4	12	17,2	17,7	17,7	15,7	16,2	16,2	13,7	14,2	14,2	18,9	19,5	19,5	18,0	18,6	18,6	81,8	81,9	81,9
MXB-E 180 SB4	12	16,6	17,7	17,7	15,3	16,2	16,2	13,3	14,1	14,1	18,3	19,4	19,4	17,5	18,6	18,6	82,0	82,2	82,2
MXB-E 180 SC4	12	19,0	20,0	19,3	17,4	18,3	17,7	15,2	16,0	15,4	20,9	22,0	21,2	20,0	21,0	20,2	83,2	83,3	83,3
MXB-E 180 MA4	12	22,4	23,4	23,4	20,5	21,4	21,4	17,9	18,7	18,7	24,6	25,7	25,7	23,5	24,6	24,6	83,6	83,8	83,8
MXB-E 180 MC4	12	24,3	25,0	25,0	22,2	22,9	22,9	19,4	20,0	20,0	26,7	27,5	27,5	25,5	26,3	26,3	83,7	84,1	84,1
MXB-E 180 LB4	12	30,2	31,2	30,2	27,7	28,6	27,7	24,2	25,0	24,2	33,3	34,3	33,3	31,8	32,8	31,8	83,8	84,8	84,8
MXB-E 225 XA4	12	33,3	35,0	35,0	30,5	32,1	32,1	26,6	28,0	28,0	36,6	38,5	38,5	34,9	36,8	36,8	84,0	84,0	84,0
MXB-E 225 XB4	12	38,0	40,0	40,0	34,8	36,7	36,7	30,4	32,0	32,0	41,8	44,0	44,0	39,9	42,0	42,0	84,8	84,8	84,9
MXB-E 225 SB4	12	43,7	46,0	46,0	40,1	42,2	42,2	35,0	36,8	36,8	48,1	50,6	50,6	45,9	48,3	48,3	86,2	86,2	86,2
MXB-E 225 MA4	12	51,3	54,0	54,0	47,0	49,5	49,5	41,0	43,2	43,2	56,4	59,4	59,4	53,9	56,7	56,7	87,4	87,4	87,3
MXB-E 225 MB4	12	61,4	64,8	64,8	56,3	59,4	59,4	49,2	51,8	51,8	67,6	71,3	71,3	64,5	68,0	68,0	87,8	87,8	87,8
MXB-E 225 LA4	12	65,3	67,5	67,5	59,8	61,9	61,9	52,2	54,0	54,0	71,8	74,3	74,3	68,5	70,9	70,9	88,1	88,1	88,0
MXB-E 225 LB4	12	68,2	72,6	70,4	62,5	66,5	64,5	54,6	58,1	56,3	75,0	79,9	77,4	71,6	76,2	73,9	89,2	89,0	88,9
MXB-E 250 SA4	12	90,0	90,0	90,0	82,5	82,5	82,5	72,0	72,0	72,0	99,0	99,0	99,0	94,5	94,5	94,5	87,0	87,0	87,0
MXB-E 250 SB4	12	100,0	100,0	96,0	91,7	91,7	88,0	80,0	80,0	76,8	110,0	110,0	105,6	105,0	105,0	100,8	87,8	87,8	87,9
MXB-E 250 MA4	12	115,0	115,0	115,0	105,4	105,4	105,4	92,0	92,0	92,0	126,5	126,5	126,5	120,8	120,8	120,8	88,2	88,1	87,8
MXB-E 250 MB4	12	120,0	125,0	120,0	110,0	114,6	110,0	96,0	100,0	96,0	132,0	137,5	132,0	126,0	131,3	126,0	88,9	88,6	88,3
MXB-E 250 LA4	12	123,8	123,8	118,8	113,4	113,4	108,9	99,0	99,0	95,0	136,1	136,1	130,7	129,9	129,9	124,7	89,1	88,1	86,9
MXB-E 250 LB4	12	135,0	135,0	129,6	123,7	123,7	118,8	108,0	108,0	103,7	148,5	148,5	142,6	141,8	141,8	136,1	89,3	88,4	87,1

TECHNICAL DATA: 4 pole - 60Hz - 1800rpm - Single Phase L.V.

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 ΔT cl. H				105/40 ΔT cl. F				80/40 ΔT cl. B				Efficiency 4/4 pf = 0,8 125/40 [%]			
		190V	208V	220V	230V	190V	208V	220V	230V	190V	208V	220V	230V	190V	208V	220V	230V
60Hz - 1800 rpm - Single Phase - YY Connection																	IP 23
MXB-E 160 XA4	12	5,9	6,4	6,8	7,1	5,4	5,9	6,2	6,5	4,7	5,1	5,4	5,7	71,6	72,7	73,0	72,9
MXB-E 160 SA4	12	7,4	8,0	8,5	8,8	6,8	7,3	7,7	8,1	5,9	6,4	6,8	7,1	73,0	74,2	74,6	74,9
MXB-E 160 MX4	12	8,9	9,6	10,1	10,6	8,1	8,8	9,3	9,7	7,1	7,7	8,1	8,5	75,7	76,7	77,2	77,3
MXB-E 160 MA4	12	10,3	11,2	11,8	12,4	9,5	10,3	10,8	11,3	8,3	8,9	9,5	9,9	76,9	77,9	78,3	78,3
MXB-E 160 LA4	12	11,8	12,8	13,5	14,1	10,8	11,7	12,4	13,0	9,4	10,2	10,8	11,3	79,3	80,2	80,6	80,8
MXB-E 180 XS4	12	14,8	16,0	16,9	17,7	13,5	14,6	15,5	16,2	11,8	12,8	13,5	14,1	80,2	81,0	81,4	81,5
MXB-E 180 XB4	12	17,7	19,2	20,3	21,2	16,2	17,6	18,6	19,4	14,2	15,3	16,2	17,0	82,4	83,1	83,4	83,5
MXB-E 180 SB4	12	17,7	19,2	20,3	21,2	16,2	17,6	18,6	19,4	14,1	15,3	16,2	16,9	83,2	83,9	84,1	84,2
MXB-E 180 SC4	12	20,0	21,7	22,9	24,0	18,3	19,9	21,0	22,0	16,0	17,3	18,3	19,2	84,8	85,4	85,7	85,8
MXB-E 180 MA4	12	23,4	25,4	26,8	28,0	21,4	23,2	24,6	25,7	18,7	20,3	21,5	22,4	84,5	85,7	85,8	85,9
MXB-E 180 MC4	12	25,0	27,1	28,6	29,9	22,9	24,8	26,3	27,4	20,0	21,7	22,9	24,0	85,4	85,8	86,0	86,0
MXB-E 180 LB4	12	31,2	33,8	35,8	37,4	28,6	31,0	32,8	34,3	25,0	27,0	28,6	29,9	85,8	86,3	86,5	86,6
MXB-E 225 XA4	12	35,0	37,9	40,1	41,9	32,1	34,8	36,8	38,4	28,0	30,3	32,1	33,5	83,9	84,6	84,9	85,1
MXB-E 225 XB4	12	40,0	43,3	45,8	47,9	36,7	39,7	42,0	43,9	32,0	34,7	36,7	38,3	84,7	85,4	85,7	85,9
MXB-E 225 SB4	12	46,0	49,8	52,7	55,1	42,2	45,7	48,3	50,5	36,8	39,9	42,2	44,1	86,0	86,6	86,9	87,1
MXB-E 225 MA4	12	54,0	58,5	61,9	64,7	49,5	53,6	56,7	59,3	43,2	46,8	49,5	51,8	87,3	87,8	88,1	88,2
MXB-E 225 MB4	12	64,8	70,2	74,3	77,6	59,4	64,3	68,1	71,1	51,8	56,2	59,4	62,1	87,7	88,3	88,5	88,6
MXB-E 225 LA4	12	67,5	73,1	77,3	80,9	61,9	67,0	70,9	74,1	54,0	58,5	61,9	64,7	88,3	88,7	88,9	88,9
MXB-E 225 LB4	12	72,6	78,7	83,2	87,0	66,5	72,1	76,2	79,7	58,1	62,9	66,6	69,6	89,3	89,6	89,8	89,8
MXB-E 250 SA4	12	90,0	97,5	103,1	107,8	82,5	89,4	94,5	98,8	72,0	78,0	82,5	86,3	87,4	87,7	88,0	88,0
MXB-E 250 SB4	12	100,0	108,3	114,6	119,8	91,7	99,3	105,0	109,8	80,0	86,7	91,7	95,8	88,2	88,6	88,8	88,8
MXB-E 250 MA4	12	115,0	124,6	131,8	137,8	105,4	114,2	120,8	126,3	92,0	99,7	105,4	110,2	88,9	89,2	89,3	89,2
MXB-E 250 MB4	12	125,0	135,4	143,2	149,7	114,6	124,1	131,3	137,2	100,0	108,3	114,6	119,8	89,6	89,8	89,8	89,6
MXB-E 250 LA4	12	123,8	134,1	141,8	148,2	113,4	122,9	130,0	135,9	99,0	107,3	113,4	118,6	90,4	90,3	90,0	89,6
MXB-E 250 LB4	12	135,0	146,3	154,7	161,7	123,7	134,0	141,8	148,2	108,0	117,0	123,8	129,4	90,6	90,5	90,2	89,9

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Stand-by 163/27				150/40			
60Hz - 1800 rpm - Single Phase - YY Connection									IP 23
MXB-E 160 XA4	12	6,5	7,0	7,4	7,8	6,2	6,7	7,1	7,4
MXB-E 160 SA4	12	8,1	8,8	9,3	9,7	7,7	8,4	8,9	9,3
MXB-E 160 MX4	12	9,7	10,5	11,2	11,7	9,3	10,1	10,6	11,1
MXB-E 160 MA4	12	11,4	12,3	13,0	13,6	10,8	11,7	12,4	13,0
MXB-E 160 LA4	12	13,0	14,1	14,9	15,5	12,4	13,4	14,2	14,8
MXB-E 180 XS4	12	16,2	17,6	18,6	19,4	15,5	16,8	17,7	18,6
MXB-E 180 XB4	12	19,5	21,1	22,3	23,3	18,6	20,1	21,3	22,3
MXB-E 180 SB4	12	19,4	21,1	22,3	23,3	18,6	20,1	21,3	22,2
MXB-E 180 SC4	12	22,0	23,8	25,2	26,4	21,0	22,8	24,1	25,2
MXB-E 180 MA4	12	25,7	27,9	29,5	30,8	24,6	26,6	28,2	29,4
MXB-E 180 MC4	12	27,5	29,8	31,5	32,9	26,3	28,4	30,1	31,4
MXB-E 180 LB4	12	34,3	37,2	39,3	41,1	32,8	35,5	37,5	39,2
MXB-E 225 XA4	12	38,5	41,7	44,1	46,1	36,8	39,8	42,1	44,0
MXB-E 225 XB4	12	44,0	47,7	50,4	52,7	42,0	45,5	48,1	50,3
MXB-E 225 SB4	12	50,6	54,8	58,0	60,6	48,3	52,3	55,3	57,9
MXB-E 225 MA4	12	59,4	64,4	68,1	71,2	56,7	61,4	65,0	67,9
MXB-E 225 MB4	12	71,3	77,2	81,7	85,4	68,0	73,7	78,0	81,5
MXB-E 225 LA4	12	74,3	80,4	85,1	88,9	70,9	76,8	81,2	84,9
MXB-E 225 LB4	12	79,9	86,5	91,5	95,7	76,2	82,6	87,3	91,3
MXB-E 250 SA4	12	99,0	107,3	113,4	118,6	94,5	102,4	108,3	113,2
MXB-E 250 SB4	12	110,0	119,2	126,0	131,8	105,0	113,8	120,3	125,8
MXB-E 250 MA4	12	126,5	137,0	144,9	151,5	120,8	130,8	138,4	144,6
MXB-E 250 MB4	12	137,5	149,0	157,6	164,7	131,3	142,2	150,4	157,2
MXB-E 250 LA4	12	136,1	147,5	156,0	163,1	129,9	140,8	148,9	155,7
MXB-E 250 LB4	12	148,5	160,9	170,2	177,9	141,8	153,6	162,4	169,8

TECHNICAL DATA: 4 pole • 50Hz • 1500rpm • Single Phase L.V.

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C]										Efficiency 4/4 pf = 0,8	
		Continuous duty						Stand-by					
		125/40 ΔT cl. H		105/40 ΔT cl. F		80/40 ΔT cl. B		163/27		150/40		125/40 [%]	
		220V	230V	220V	230V	220V	230V	220V	230V	220V	230V	220V	230V
4 POLE		50Hz - 1.500 rpm - Single Phase - Zig-Zag Connection											IP23
MXB-E 160 XA4	12	6,3	6,6	5,8	6,0	5,0	5,3	6,9	7,3	6,6	6,9	69,1	68,8
MXB-E 160 SA4	12	7,9	8,3	7,2	7,6	6,3	6,6	8,7	9,1	8,3	8,7	70,9	71,0
MXB-E 160 MX4	12	9,5	9,9	8,7	9,1	7,6	7,9	10,5	10,9	10,0	10,4	73,5	73,5
MXB-E 160 MA4	12	11,0	11,6	10,1	10,6	8,8	9,3	12,1	12,8	11,6	12,2	74,7	74,5
MXB-E 160 LA4	12	12,6	13,2	11,5	12,1	10,1	10,6	13,9	14,5	13,2	13,9	77,5	77,6
MXB-E 180 XS4	12	15,8	16,5	14,5	15,1	12,6	13,2	17,4	18,2	16,6	17,3	78,4	78,2
MXB-E 180 XB4	12	18,9	19,8	17,4	18,1	15,2	15,8	20,8	21,8	19,9	20,8	80,6	80,7
MXB-E 180 SB4	12	18,8	19,8	17,3	18,1	15,1	15,8	20,7	21,8	19,8	20,8	81,5	82,2
MXB-E 180 SC4	12	21,4	22,4	19,6	20,5	17,1	17,9	23,6	24,6	22,5	23,5	83,2	83,3
MXB-E 180 MA4	12	25,0	26,1	22,9	23,9	20,0	20,9	27,5	28,7	26,2	27,4	83,5	83,8
MXB-E 180 MC4	12	26,3	27,5	24,1	25,2	21,0	22,0	28,9	30,3	27,6	28,9	83,6	84,1
MXB-E 180 LB4	12	33,0	34,5	30,2	31,6	26,4	27,6	36,3	38,0	34,7	36,2	84,3	84,8
MXB-E 225 XA4	12	36,8	38,5	33,8	35,3	29,5	30,8	40,5	42,4	38,7	40,4	82,5	82,4
MXB-E 225 XB4	12	42,1	44,0	38,6	40,3	33,7	35,2	46,3	48,4	44,2	46,2	83,4	83,2
MXB-E 225 SB4	12	48,8	51,0	44,7	46,7	39,0	40,8	53,7	56,1	51,2	53,6	84,7	84,8
MXB-E 225 MA4	12	57,4	60,0	52,6	55,0	45,9	48,0	63,1	66,0	60,3	63,0	86,0	86,0
MXB-E 225 MB4	12	68,4	71,6	62,7	65,6	54,8	57,3	75,3	78,8	71,9	75,2	86,4	86,4
MXB-E 225 LA4	12	71,0	74,3	65,1	68,1	56,8	59,4	78,1	81,7	74,6	78,0	86,9	86,9
MXB-E 225 LB4	12	78,0	81,5	71,5	74,7	62,4	65,2	85,8	89,7	81,9	85,6	87,8	87,8
MXB-E 250 SA4	12	94,7	99,0	86,8	90,7	75,8	79,2	104,2	108,9	99,4	104,0	85,2	85,3
MXB-E 250 SB4	12	105,2	110,0	96,4	100,8	84,2	88,0	115,7	121,0	110,5	115,5	86,6	86,6
MXB-E 250 MA4	12	121,0	126,5	110,9	115,9	96,8	101,2	133,1	139,2	127,1	132,8	87,0	86,8
MXB-E 250 MB4	12	131,5	137,5	120,5	126,0	105,2	110,0	144,7	151,3	138,1	144,4	87,7	87,5
MXB-E 250 LA4	12	131,5	137,5	120,5	126,0	105,2	110,0	144,7	151,3	138,1	144,4	88,0	87,3
MXB-E 250 LB4	12	143,5	150,0	131,5	137,5	114,8	120,0	157,8	165,0	150,7	157,5	88,3	87,6

TECHNICAL DATA: 4 pole • 60Hz • 1800rpm • Single Phase L.V.

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 ΔT cl. H				105/40 ΔT cl. F				80/40 ΔT cl. B				Efficiency 4/4 pf = 0,8 125/40 [%]			
		220V	240V	254V	266V	220V	240V	254V	266V	220V	240V	254V	266V	220V	240V	254V	266V
4 POLES		60Hz - 1.800 rpm - Single Phase - Zig-Zag Connection															IP 23
MXB-E 160 XA4	12	7,6	7,9	7,9	8,3	6,9	7,2	7,2	7,6	6,0	6,3	6,3	6,6	68,9	70,3	71,2	71,2
MXB-E 160 SA4	12	9,5	9,9	9,8	10,3	8,7	9,1	9,0	9,5	7,6	7,9	7,9	8,3	69,8	71,5	72,7	72,9
MXB-E 160 MX4	12	11,4	11,9	11,8	12,4	10,4	10,9	10,8	11,3	9,1	9,5	9,5	9,9	72,7	74,1	75,2	75,4
MXB-E 160 MA4	12	13,3	13,9	13,8	14,4	12,2	12,7	12,6	13,2	10,6	11,1	11,0	11,6	73,9	75,2	76,3	76,5
MXB-E 160 LA4	12	15,1	15,8	15,8	16,5	13,9	14,5	14,4	15,1	12,1	12,6	12,6	13,2	76,7	78,0	78,8	79,1
MXB-E 180 XS4	12	16,7	17,5	17,5	18,3	15,3	16,0	16,0	16,8	13,4	14,0	14,0	14,7	78,8	80,0	80,4	80,6
MXB-E 180 XB4	12	20,1	21,0	21,0	22,0	18,4	19,2	19,2	20,2	16,1	16,8	16,8	17,6	80,9	81,8	82,5	82,6
MXB-E 180 SB4	12	22,8	23,8	23,8	24,9	20,9	21,8	21,8	22,8	18,2	19,0	19,0	19,9	81,2	83,1	82,8	82,9
MXB-E 180 SC4	12	25,8	27,0	27,0	28,3	23,7	24,7	24,7	25,9	20,7	21,6	21,6	22,6	82,7	83,7	84,2	84,4
MXB-E 180 MA4	12	30,3	31,7	31,7	33,2	27,8	29,1	29,1	30,4	24,2	25,4	25,4	26,6	83,6	85,0	85,6	85,6
MXB-E 180 MC4	12	33,4	34,9	34,9	36,5	30,6	32,0	32,0	33,5	26,7	27,9	27,9	29,2	84,3	85,0	85,5	85,6
MXB-E 180 LB4	12	44,6	46,6	46,6	48,8	40,9	42,7	42,7	44,7	35,7	37,3	37,3	39,0	84,5	85,3	85,8	85,9
MXB-E 225 XA4	12	44,9	46,9	46,9	49,1	41,1	43,0	43,0	45,0	35,9	37,5	37,5	39,3	81,3	82,2	83,2	83,4
MXB-E 225 XB4	12	51,3	53,6	53,6	56,1	47,0	49,1	49,1	51,4	41,0	42,9	42,9	44,9	82,2	83,1	84,0	84,2
MXB-E 225 SB4	12	64,1	67,0	67,0	70,2	58,7	61,4	61,4	64,3	51,3	53,6	53,6	56,1	83,4	84,4	85,0	85,2
MXB-E 225 MA4	12	76,5	80,0	80,0	83,8	70,1	73,3	73,3	76,8	61,2	64,0	64,0	67,0	84,8	85,6	86,2	86,4
MXB-E 225 MB4	12	90,4	94,5	94,5	99,0	82,8	86,6	86,6	90,7	72,3	75,6	75,6	79,2	85,1	86,0	86,6	86,8
MXB-E 225 LA4	12	95,2	99,5	99,5	104,2	87,2	91,2	91,2	95,5	76,1	79,6	79,6	83,4	86,0	86,5	87,2	87,3
MXB-E 225 LB4	12	106,2	111,0	111,0	116,2	97,3	101,7	101,7	106,5	84,9	88,8	88,8	93,0	87,0	87,6	88,1	88,1
MXB-E 250 SA4	12	118,4	123,8	123,8	129,6	108,5	113,5	113,5	118,8	94,7	99,0	99,0	103,7	85,4	86,0	86,5	86,5
MXB-E 250 SB4	12	131,5	137,5	137,5	144,0	120,5	126,0	126,0	132,0	105,2	110,0	110,0	115,2	86,0	86,7	87,2	87,2
MXB-E 250 MA4	12	151,2	158,1	158,1	165,6	138,6	144,9	144,9	151,7	121,0	126,5	126,5	132,5	86,6	87,3	87,6	87,6
MXB-E 250 MB4	12	164,4	171,9	171,9	180,0	150,7	157,5	157,5	165,0	131,5	137,5	137,5	144,0	87,7	88,2	88,4	88,3
MXB-E 250 LA4	12	164,4	171,9	171,9	180,0	150,7	157,5	157,5	165,0	131,5	137,5	137,5	144,0	89,1	89,1	89,0	88,6
MXB-E 250 LB4	12	179,3	187,5	187,5	196,4	164,4	171,8	171,8	180,0	143,5	150,0	150,0	157,1	89,2	89,3	89,2	88,9

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] 163/27				150/40			
4 POLES		60Hz - 1.800 rpm - Single Phase - Zig-Zag Connection							IP 23
MXB-E 160 XA4	12	8,3	8,7	8,7	9,1	7,9	8,3	8,3	8,7
MXB-E 160 SA4	12	10,4	10,9	10,8	11,3	9,9	10,4	10,3	10,8
MXB-E 160 MX4	12	12,5	13,1	13,0	13,6	12,0	12,5	12,4	13,0
MXB-E 160 MA4	12	14,6	15,3	15,2	15,9	14,0	14,6	14,5	15,2
MXB-E 160 LA4	12	16,6	17,4	17,3	18,2	15,9	16,6	16,5	17,3
MXB-E 180 XS4	12	18,4	19,3	19,3	20,2	17,6	18,4	18,4	19,2
MXB-E 180 XB4	12	22,1	23,1	23,1	24,2	21,1	22,1	22,1	23,1
MXB-E 180 SB4	12	25,0	26,2	26,2	27,4	23,9	25,0	25,0	26,2
MXB-E 180 SC4	12	28,4	29,7	29,7	31,1	27,1	28,4	28,4	29,7
MXB-E 180 MA4	12	33,3	34,9	34,9	36,5	31,8	33,3	33,3	34,9
MXB-E 180 MC4	12	36,7	38,4	38,4	40,2	35,1	36,6	36,6	38,4
MXB-E 180 LB4	12	49,0	51,3	51,3	53,7	46,8	48,9	48,9	51,2
MXB-E 225 XA4	12	49,3	51,6	51,6	54,0	47,1	49,2	49,2	51,6
MXB-E 225 XB4	12	56,4	59,0	59,0	61,7	53,8	56,3	56,3	58,9
MXB-E 225 SB4	12	70,5	73,7	73,7	77,2	67,3	70,4	70,4	73,7
MXB-E 225 MA4	12	84,2	88,0	88,0	92,2	80,3	84,0	84,0	88,0
MXB-E 225 MB4	12	99,4	104,0	104,0	108,9	94,9	99,2	99,2	103,9
MXB-E 225 LA4	12	104,7	109,5	109,5	114,6	99,9	104,5	104,5	109,4
MXB-E 225 LB4	12	116,8	122,1	122,1	127,9	111,5	116,6	116,6	122,1
MXB-E 250 SA4	12	130,3	136,2	136,2	142,6	124,3	130,0	130,0	136,1
MXB-E 250 SB4	12	144,7	151,3	151,3	158,4	138,1	144,4	144,4	151,2
MXB-E 250 MA4	12	166,3	173,9	173,9	182,1	158,8	166,0	166,0	173,8
MXB-E 250 MB4	12	180,9	189,1	189,1	198,0	172,6	180,5	180,5	189,0
MXB-E 250 LA4	12	180,9	189,1	189,1	198,0	172,6	180,5	180,5	189,0
MXB-E 250 LB4	12	197,3	206,3	206,3	216,0	188,3	196,9	196,9	206,2

TECHNICAL DATA: 6 pole - 50Hz - 1000rpm and 60Hz - 1200rpm L.V.
8 pole - 50Hz - 750rpm and 60Hz - 900rpm

Type	Leads	400V / 50Hz Power rating [kVA] Temp. rise / Ambient temp. [°C]					Efficiency 4/4	480V / 60Hz Power rating [kVA] Temp. rise / Ambient temp. [°C]					Efficiency 4/4	Inertia B3	Weight B3
		Continuous duty			Stand-by		pf = 0,8	Continuous duty			Stand-by		pf = 0,8	Approx.	Approx.
		125/40 ΔT cl. H	105/40 ΔT cl. F	80/40 ΔT cl. B	163/27	150/40	125/40 [%]	125/40 ΔT cl. H	105/40 ΔT cl. F	80/40 ΔT cl. B	163/27	150/40	125/40 [%]	J [Kg m^2]	[Kg]
6 POLES		**50Hz • 1000rpm**						**60Hz • 1200rpm**							**IP 23**
MJB 400 SA6	6	400	366	320	440	424	92,6	500	458	400	550	530	93,0	11,80	1450
MJB 400 SB6	6	450	412	360	495	477	92,9	565	518	452	621	600	93,4	14,10	1600
MJB 400 SC6	6	500	458	400	550	530	93,6	625	573	500	687	660	94,0	16,80	1800
MJB 400 MA6	6	620	568	496	682	657	94,0	775	710	620	852	820	94,4	17,90	2000
MJB 400 MB6	6	700	641	560	770	742	94,2	875	802	700	962	927	94,6	19,40	2260
MJB 400 LA6	6	800	733	640	880	848	94,5	1000	916	800	1100	1060	94,9	20,90	2530
MJB 400 LB6	6	970	889	776	1067	1028	94,7	1215	1113	972	1336	1290	95,1	24,20	2750
MJB 450 MB6	6	1040	953	832	1144	1102	95,4	1300	1190	1040	1430	1378	95,8	44,20	3850
MJB 450 LA6	6	1200	1100	960	1320	1272	95,6	1500	1375	1200	1650	1590	95,8	48,70	4000
MJB 450 LB6	6	1360	1246	1088	1496	1440	95,6	1700	1558	1360	1870	1802	96,1	53,70	4200
MJB 500 SC6	6	1330	1220	1064	1463	1410	94,9	1665	1526	1332	1830	1765	95,6	64,70	3800
MJB 500 MA6	6	1400	1283	1120	1540	1484	95,7	1750	1600	1400	1925	1855	96,4	70,00	4200
MJB 500 MB6	6	1540	1410	1232	1694	1632	95,1	1925	1764	1540	2118	2040	95,8	73,60	4400
MJB 500 MC6	6	1600	1466	1280	1760	1696	95,9	2000	1833	1600	2200	2120	96,1	81,00	5000
MJB 500 LA6	6	1680	1540	1344	1848	1780	96,2	2100	1925	1680	2310	2226	96,3	88,90	5300
MJB 560 SC6	6	1870	1700	1500	2050	2000	95,6	2150	1980	1720	2360	2280	96,1	115,00	6000
MJB 560 MB6	6	2200	2000	1760	2420	2330	96,0	2640	2420	2112	2900	2800	96,3	125,00	6700
MJB 560 LC6	6	2500	2300	2000	2750	2650	96,3	3000	2750	2400	3300	3180	96,4	145,00	7600
MJB 630 MB6	6	2800	2565	2240	3080	2970	96,4	3360	3080	2700	-(*)	-(*)	96,5	210,00	8000
MJB 630 MC6[(1)]	6	3000	2750	2400	3300	3180	96,0	3600	3300	2900	-(*)	-(*)	96,4	210,00	8500
8 POLES		**50Hz • 750rpm**						**60Hz • 900rpm**							**IP 23**
MJB 400 SA8	6	240	220	192	264	254	91,9	300	275	240	330	318	92,0	13,50	1450
MJB 400 SB8	6	310	284	248	341	329	92,0	400	366	320	440	424	92,5	16,20	1600
MJB 400 SC8	6	360	330	288	396	382	92,3	450	412	360	495	477	92,8	19,10	1800
MJB 400 MA8	6	430	394	344	473	456	92,5	540	495	432	594	572	93,0	20,60	2000
MJB 400 MB8	6	510	467	408	561	540	93,0	640	586	512	704	678	93,5	22,40	2260
MJB 400 LA8	6	600	550	480	660	636	93,2	750	687	600	825	795	93,7	24,10	2530
MJB 400 LB8	6	740	678	592	814	784	93,5	925	848	740	1020	980	94,0	25,40	2750
MJB 500 SA8	6	820	751	656	902	869	94,5	1025	939	820	1130	1085	95,1	55,10	3200
MJB 500 SC8	6	1020	935	815	1120	1080	95,0	1275	1170	1020	1400	1350	95,5	74,20	3800
MJB 500 MB8	6	1270	1160	1000	1400	1350	95,1	1590	1457	1272	1750	1685	95,6	82,20	4400
MJB 500 LA8	6	1400	1280	1120	1540	1480	95,7	1680	1540	1340	1850	1780	95,9	114,00	5600
MJB 560 SC8	6	1480	1350	1185	1630	1570	95,4	1775	1625	1420	1950	1880	95,8	115,00	6000
MJB 560 MB8	6	1800	1650	1440	1980	1900	95,6	2160	1980	1730	2380	2290	96,0	130,00	7000
MJB 560 LA8	6	2025	1850	1620	2230	2150	96,0	2400	2200	1920	2640	2545	96,1	155,00	7000
MJB 630 MC8	6	2200	2000	1760	2420	2330	95,5	2350	2150	1880	2585	2490	96,2	195,0	8300
MJB 630 LA8	6	2450	2245	1960	2700	2600	96,6	2820	2580	2260	3100	3000	96,8	260,0	9200

(1) 690V recommended

* Power outputs which need a special generator design. Please contact Marelli Motori for specific requests.

TECHNICAL DATA: 6 pole • 50Hz • 1000rpm
8 pole • 50Hz • 750rpm

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C]										Efficiency 4/4 pf = 0,8	
		Continuous duty						Stand-by					
		125/40 ΔT cl. H		105/40 ΔT cl. F		80/40 ΔT cl. B		163/27		150/40		125/40 [%]	
		380V	415V	380V	415V	380V	415V	380V	415V	380V	415V	380V	415V
6 POLES		**50 Hz - 1000 rpm**											**IP 23**
MJB 400 SA6	6	390	380	357	348	312	304	429	418	413	403	92,5	92,5
MJB 400 SB6	6	440	430	403	394	352	344	484	473	466	456	92,8	92,8
MJB 400 SC6	6	490	480	449	440	392	384	539	528	519	509	93,5	93,5
MJB 400 MA6	6	610	600	559	550	488	480	671	660	647	636	93,9	93,9
MJB 400 MB6	6	680	670	623	614	544	536	748	737	721	710	94,1	94,1
MJB 400 LA6	6	780	760	715	697	624	608	858	836	827	806	94,4	94,4
MJB 400 LB6	6	950	930	871	852	760	744	1045	1023	1007	986	94,6	94,6
MJB 450 MB6	6	1040	1040	953	953	832	832	1144	1144	1102	1102	95,3	95,5
MJB 450 LA6	6	1200	1200	1100	1100	960	960	1320	1320	1272	1272	95,4	95,7
MJB 450 LB6	6	1360	1360	1247	1247	1088	1088	1496	1496	1442	1442	95,5	95,7
MJB 500 SC6	6	1320	1280	1210	1173	1056	1024	1452	1408	1399	1357	94,8	94,7
MJB 500 MA6	6	1390	1350	1270	1240	1110	1080	1530	1490	1470	1430	95,7	95,7
MJB 500 MB6	6	1520	1480	1390	1360	1220	1180	1670	1630	1610	1570	95,1	95,1
MJB 500 MC6	6	1565	1565	1430	1400	1250	1220	1720	1680	1660	1620	95,8	96,0
MJB 500 LA6	6	1640	1600	1500	1470	1310	1280	1800	1760	1740	1700	96,2	96,2
MJB 560 SC6	6	1777	1870	1630	1710	1420	1500	1950	2060	1880	1980	95,6	95,6
MJB 560 MB6	6	2090	2200	1920	2020	1670	1760	2300	2420	2220	2330	96,0	96,0
MJB 560 LC6	6	2375	2500	2180	2290	1900	2000	2610	2750	2520	2650	96,3	96,3
MJB 630 MB6	6	2660	2800	2440	2570	2130	2240	2930	3080	2820	2970	96,4	96,4
MJB 630 MC6[1]	6	2850	3000	2610	2750	2280	2400	3140	3300	3020	3180	96,0	96,0
8 POLES		**50 Hz - 750 rpm**											**IP 23**
MJB 400 SA8	6	240	230	220	211	192	184	264	253	254	244	91,4	91,4
MJB 400 SB8	6	305	300	280	275	244	240	336	330	323	318	91,9	91,9
MJB 400 SC8	6	350	350	321	321	280	280	385	385	371	371	92,2	92,2
MJB 400 MA8	6	420	420	385	385	336	336	462	462	445	445	92,4	92,4
MJB 400 MB8	6	510	500	467	458	408	400	561	550	541	530	92,9	92,9
MJB 400 LA8	6	600	590	550	541	480	472	660	649	636	625	93,1	93,1
MJB 400 LB8	6	740	730	678	669	592	584	814	803	784	774	93,4	93,4
MJB 500 SA8	6	820	810	752	742	656	648	902	891	869	859	94,4	94,3
MJB 500 SC8	6	1020	1010	935	926	816	808	1122	1111	1081	1071	94,9	94,8
MJB 500 MB8	6	1270	1300	1164	1192	1016	1040	1397	1430	1346	1378	95,0	94,9
MJB 500 LA8	6	1330	1400	1220	1280	1060	1120	1460	1540	1410	1480	95,6	95,7
MJB 560 SC8	6	1410	1480	1290	1360	1120	1180	1550	1630	1490	1570	95,4	95,4
MJB 560 MB8	6	1710	1800	1570	1650	1370	1440	1880	1980	1810	1910	95,6	95,6
MJB 560 LA8	6	1920	2030	1760	1860	1540	1620	2120	2230	2040	2150	96,0	96,0
MJB 630 MC8	6	2090	2200	1920	2020	1670	1760	2300	2420	2220	2330	95,5	95,5
MJB 630 LA8	6	2330	2450	2130	2250	1860	1960	2560	2700	2470	2600	96,6	96,6

[1] 690V recommended.

TECHNICAL DATA: 6 pole • 60Hz • 1200rpm
8 pole • 60Hz • 900rpm

L.V.

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C]															Efficiency 4/4 pf = 0,8		
		Continuous duty									Stand-by								
		125/40 ΔT cl. H			105/40 ΔT cl. F			80/40 ΔT cl. B			163/27			150/40			125/40 [%]		
		416V	440V	460V	416V	440V	460V	416V	440V	460V	416V	440V	460V	416V	440V	460V	416V	440V	460V
6 POLES		**60 Hz • 1200 rpm**																	**IP 23**
MJB 400 SA6	6	456	468	480	418	429	440	365	374	384	502	515	528	483	496	509	92,6	92,8	92,9
MJB 400 SB6	6	513	527	540	470	483	495	410	422	432	564	580	594	544	559	572	93,0	93,2	93,3
MJB 400 SC6	6	570	585	600	522	536	550	456	468	480	627	644	660	604	620	636	93,6	93,8	93,9
MJB 400 MA6	6	707	725	744	648	665	682	566	580	595	778	798	818	749	769	789	94,0	94,2	94,3
MJB 400 MB6	6	798	819	840	731	751	770	638	655	672	878	901	924	846	868	890	94,2	94,4	94,5
MJB 400 LA6	6	912	936	960	836	858	880	730	749	768	1003	1030	1056	967	992	1018	94,5	94,7	94,8
MJB 400 LB6	6	1106	1135	1164	1014	1040	1067	885	908	931	1217	1249	1280	1172	1203	1234	94,7	94,9	95,0
MJB 450 MB6	6	1200	1250	1300	1100	1146	1192	960	1000	1040	1320	1375	1430	1272	1325	1378	95,5	95,6	95,7
MJB 450 LA6	6	1360	1400	1460	1247	1283	1338	1088	1120	1168	1496	1540	1606	1442	1484	1548	95,5	95,6	95,7
MJB 450 LB6	6	1550	1640	1700	1421	1503	1558	1240	1312	1360	1705	1804	1870	1643	1738	1802	95,6	95,8	96,0
MJB 500 SC6	6	1516	1556	1596	1389	1426	1463	1213	1245	1277	1668	1712	1756	1607	1649	1692	95,2	95,4	95,5
MJB 500 MA6	6	1520	1640	1680	1390	1500	1540	1210	1300	1340	1670	1925	1850	1600	1740	1780	96,0	96,2	96,3
MJB 500 MB6	6	1670	1765	1850	1531	1618	1696	1336	1412	1480	1837	1942	2035	1770	1871	1961	95,4	95,6	95,7
MJB 500 MC6	6	1825	1870	1900	1673	1714	1741	1460	1496	1520	2008	2057	2090	1935	1982	2014	95,7	95,9	96,0
MJB 500 LA6	6	1915	1965	1995	1755	1801	1828	1532	1572	1596	2107	2162	2195	2030	2083	2115	95,9	96,1	96,2
MJB 560 SC6	6	1960	2000	2060	1796	1833	1888	1568	1600	1650	2150	2200	2260	2080	2120	2180	95,7	95,9	96,0
MJB 560 MB6	6	2400	2470	2530	2200	2260	2320	1920	1980	2020	2640	2720	2780	2540	2620	2680	95,9	96,1	96,2
MJB 560 LC6	6	2730	2800	2880	2500	2570	2640	2180	2240	2300	3000	3080	3170	2890	2970	3050	96,0	96,2	96,3
MJB 630 MB6	6	3050	3140	3220	2800	2880	2950	2440	2510	2580	3360	3450	3540	3230	3330	3410	96,1	96,3	96,4
MJB 630 MC6[1]	6	3280	3370	3450	3010	3090	3160	2620	2700	2760	3610	3710	3800	3480	3570	3660	96,0	96,2	96,3
8 POLES		**60 Hz • 900 rpm**																	**IP 23**
MJB 400 SA8	6	274	281	288	251	258	264	219	225	230	301	309	317	290	298	305	91,6	91,8	91,9
MJB 400 SB8	6	364	374	384	334	343	352	291	299	307	400	411	422	386	396	407	92,1	92,3	92,4
MJB 400 SC8	6	410	421	432	376	386	396	328	337	346	451	463	475	435	446	458	92,4	92,6	92,7
MJB 400 MA8	6	490	503	516	449	461	473	392	402	413	539	553	568	519	533	547	92,6	92,8	92,9
MJB 400 MB8	6	581	597	612	533	547	561	465	478	490	639	657	673	616	633	649	93,1	93,3	93,4
MJB 400 LA8	6	684	702	720	627	643	660	547	562	576	752	772	792	725	744	763	93,3	93,5	93,6
MJB 400 LB8	6	844	866	888	774	794	814	675	693	710	928	953	977	895	918	941	93,6	93,8	93,9
MJB 500 SA8	6	935	959	984	857	879	902	748	767	787	1029	1055	1082	991	1017	1043	94,7	94,9	95
MJB 500 SC8	6	1160	1190	1220	1070	1090	1120	930	950	980	1280	1310	1350	1230	1260	1300	95,1	95,3	95,4
MJB 500 MB8	6	1450	1490	1520	1330	1360	1400	1160	1190	1220	1590	1630	1680	1530	1580	1620	95,2	95,4	95,5
MJB 500 LA8	6	1460	1540	1620	1340	1410	1480	1170	1230	1290	1610	1690	1780	1550	1630	1710	95,5	95,7	95,8
MJB 560 SC8	6	1620	1660	1700	1480	1520	1560	1300	1330	1360	1780	1830	1870	1720	1760	1810	95,4	95,6	95,7
MJB 560 MB8	6	1970	2020	2070	1810	1850	1900	1580	1620	1660	2170	2220	2280	2090	2140	2200	95,6	95,8	95,9
MJB 560 LA8	6	2190	2250	2300	2010	2060	2110	1750	1800	1840	2410	2470	2530	2320	2380	2440	95,7	95,9	96,0
MJB 630 MC8	6	2140	2200	2260	1960	2020	2070	1710	1760	1800	2360	2420	2480	2270	2330	2390	95,8	96,0	96,1
MJB 630 LA8	6	2570	2640	2710	2360	2420	2480	2060	2110	2170	2830	2900	2980	2730	2800	2870	96,4	96,6	96,7

[1] 690V recommended.

TECHNICAL DATA: 4 pole - 50Hz - 1500rpm and 60Hz - 1800rpm M.V.

Type	Leads	3000V-3300V / 50Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT cl. F	80/40 Ins. Cl. F ΔT cl. B	Stand-by 150/40 Ins. Cl. H	Efficiency 4/4 pf = 0,8 105/40 [%]	6000V-6600V / 50Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT cl. F	80/40 Ins. Cl. F ΔT cl. B	Stand-by 150/40 Ins. Cl. H	Efficiency 4/4 pf = 0,8 105/40 [%]	Inertia B3 Approx. J [Kg m^2]	Weight B3 Approx. [Kg]
4 POLES		50Hz • 1500 rpm					50Hz • 1500 rpm						IP 23
MJH 400 MA4	6	641	600	524	673	93,4	588	550	480	617	94,1	12,7	2400
MJH 400 LA4	6	898	840	733	943	94,3	791	740	646	831	94,7	17,6	2750
MJH 400 LB4	6	1090	1020	890	1145	94,9	983	920	803	1033	94,6	20,0	3000
MJH 450 MB4	6	1122	1050	917	1179	95,5	1069	1000	873	1122	95,5	29,0	3400
MJH 450 LA4	6	1283	1200	1048	1347	95,6	1197	1120	978	1257	95,6	34,0	3800
MJH 450 LB4	6	1390	1300	1130	1460	95,7	1340	1250	1090	1400	95,7	38,0	4200
MJH 500 MA4	6	1550	1450	1270	1630	95,3	1440	1350	1180	1520	95,1	43,6	4500
MJH 500 MB4	6	1820	1700	1480	1910	95,5	1600	1500	1310	1680	95,3	52,5	4600
MJH 500 LA4	6	1980	1850	1620	2080	95,7	1870	1750	1530	1960	95,5	61,5	5300
MJH 500 LB4	6	2080	1950	1700	2190	95,8	2030	1900	1660	2130	96,1	64,0	5500
MJH 560 MA4	6	2620	2450	2140	2750	96,1	2620	2450	2140	2750	95,7	83,0	6500
MJH 560 LA4	6	2780	2600	2270	2920	96,2	2780	2600	2270	2920	96,0	95,0	6600
MJH 560 LB4	6	3100	2900	2530	3260	96,3	3100	2900	2530	3260	96,2	98,0	6800
MJH 630 MB4	6	3210	3000	2620	3370	96,1	3210	3000	2620	3370	96,0	155	8500
MJH 630 LA4	6	3530	3300	2880	3700	96,2	3530	3300	2880	3700	96,5	146	8700
MJH 630 LB4	6	3850	3600	3140	4040	96,3	3850	3600	3140	4040	96,1	163	8900
MJH 710 MA4	6	4920	4600	4020	5160	96,5	4600	4200	3670	4830	96,5	200	12000
MJH 710 LA4	6	5880	5500	4800	6170	96,6	5880	5500	4800	6170	96,6	250	13500
MJH 710 LB4	6	6200	5800	5060	6510	96,8	6200	5800	5060	6510	96,8	270	15000

Type	Leads	4160V / 60Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT cl. F	80/40 Ins. Cl. F ΔT cl. B	Stand-by 150/40 Ins. Cl. H	Efficiency 4/4 pf = 0,8 105/40 [%]	6000V-6600V / 60Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty 125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT cl. F	80/40 Ins. Cl. F ΔT cl. B	Stand-by 150/40 Ins. Cl. H	Efficiency 4/4 pf = 0,8 105/40 [%]	Inertia B3 Approx. J [Kg m^2]	Weight B3 Approx. [Kg]
4 POLES		60Hz • 1800 rpm					60Hz • 1800 rpm						IP 23
MJH 400 MA4	6	748	700	611	786	94,7	706	660	576	741	94,6	12,7	2400
MJH 400 LA4	6	1026	960	838	1078	95,3	962	900	786	1010	95,2	17,6	2750
MJH 400 LB4	6	1261	1180	1030	1324	95,5	1197	1120	978	1257	95,5	20,0	3000
MJH 450 MB4	6	1261	1180	1030	1324	95,4	1197	1120	978	1257	95,3	29,0	3400
MJH 450 LA4	6	1340	1250	1090	1400	95,6	1280	1200	1050	1350	95,6	34,0	3800
MJH 450 LB4	6	1500	1400	1220	1570	95,7	1420	1330	1160	1490	95,7	38,0	4200
MJH 500 MA4	6	1770	1660	1450	1860	95,7	1600	1500	1310	1680	95,6	43,6	4500
MJH 500 MB4	6	2140	2000	1750	2240	95,9	1760	1650	1440	1850	96,8	52,5	4600
MJH 500 LA4	6	2300	2150	1880	2410	96,1	2030	1900	1660	2130	96,0	61,5	5300
MJH 500 LB4	6	2410	2250	1960	2530	96,2	2350	2200	1920	2470	96,1	64,0	5500
MJH 560 MA4	6	3100	2900	2530	3260	96,1	2940	2750	2400	3090	95,9	83,0	6500
MJH 560 LB4	6	3470	3250	2840	3650	96,2	3370	3150	2750	3540	96,1	98,0	6800
MJH 630 MB4	6	3850	3600	3140	4040	96,5	3740	3500	3060	3930	96,4	155	8500
MJH 630 LB4	6	4170	3900	3400	4380	96,3	4060	3800	3320	4270	96,6	163	8900
MJH 710 MA4	6	4810	4500	3930	5050	96,5	4810	4500	3930	5050	96,4	200	12500
MJH 710 MB4	6	5350	5000	4370	5610	96,7	5350	5000	4370	5610	96,6	227	13500
MJH 710 LA4	6	6200	5800	5060	6510	97,1	6200	5800	5060	6510	96,7	245	13500
MJH 710 LB4	6	7060	6600	5760	7410	97,2	7060	6600	5760	7410	96,9	270	15000
MJH 710 LC4	6	6410	6000	5240	6730	96,8	6410	6000	5240	6730	96,8	290	17000

TECHNICAL DATA: 4 pole - 50Hz - 1500rpm and 60Hz - 1800rpm H.V.

Type	Leads	10000V-11000V / 50Hz					15000V / 50Hz				13200V-13800V / 60Hz						
		Power rating [kVA] Temp. rise / Ambient temp. [°C]				Eff. 4/4	Power rating [kVA] Temp. rise / Ambient temp. [°C]				Power rating [kVA] Temp. rise / Ambient temp. [°C]				Eff. 4/4	Inertia B3	Weight B3
		Continuous duty			Stand-by	pf = 0,8	Continuous duty			Stand-by	Continuous duty			Stand-by	pf = 0,8	Appr.	Appr.
		125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT cl. F	80/40 Ins. Cl. F ΔT cl. B	150/40 Ins. Cl. H	105/40 [%]	125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT cl. F	80/40 Ins. Cl. F ΔT cl. B	150/40 Ins. Cl. H	125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT cl. F	80/40 Ins. Cl. F ΔT cl. B	150/40 Ins. Cl. H	105/40 [%]	J [Kg m^2]	[Kg]
4 POLES		**50Hz • 1500 rpm**									**60Hz • 1800 rpm**						**IP 23**
MJH 450 LA4	6	1070	1000	870	1120	94,6	-	-	-	-	1280	1200	1050	1350	94,0	34,0	3800
MJH 500 MA4	6	1390	1300	1130	1460	94,8	-	-	-	-	1500	1400	1220	1570	94,1	45,0	5000
MJH 500 LA4	6	1600	1500	1310	1680	95,1	-	-	-	-	1710	1600	1400	1800	94,5	53,7	5300
MJH 560 MA4	6	2300	2150	1880	2410	95,5	1820	1700	1480	1910	2350	2200	1920	2470	95,0	83,0	6700
MJH 560 LA4	6	2890	2700	2360	3030	96,1	1980	1850	1620	2080	2890	2700	2360	3030	95,4	105	7500
MJH 560 LB4	6	-	-	-	-	-	2240	2100	1830	2360	-	-	-	-	-	-	-
MJH 630 MB4	6	3210	3000	2620	3370	96,0	2780	2600	2270	2920	3370	3150	2750	3540	95,6	115	8200
MJH 630 LA4	6	3530	3300	2880	3700	96,3	3210	3000	2620	3370	3630	3400	2970	3820	95,6	150	9300
MJH 630 LB4	6	3630	3400	2970	3820	96,4	3530	3300	2880	3700	4060	3800	3320	4270	96,0	160	9500
MJH 710 MA4	6	4700	4400	3840	4940	96,5	-	-	-	-	5130	4800	4190	5390	96,4	215	12500
MJH 710 MB4	6	-	-	-	-	-	4280	4000	3490	4490	-	-	-	-	-	-	-
MJH 710 LA4	6	5880	5500	4800	6170	96,8	-	-	-	-	6090	5700	4980	6400	96,5	227	14500
MJH 710 LB4	6	6200	5800	5060	6510	96,8	4810	4500	3930	5050	6410	6000	5240	6730	96,5	270	15500
MJH 710 LC4	6	6410	6000	5240	6730	96,8	-	-	-	-	6630	6200	5410	6960	96,5	290	17000

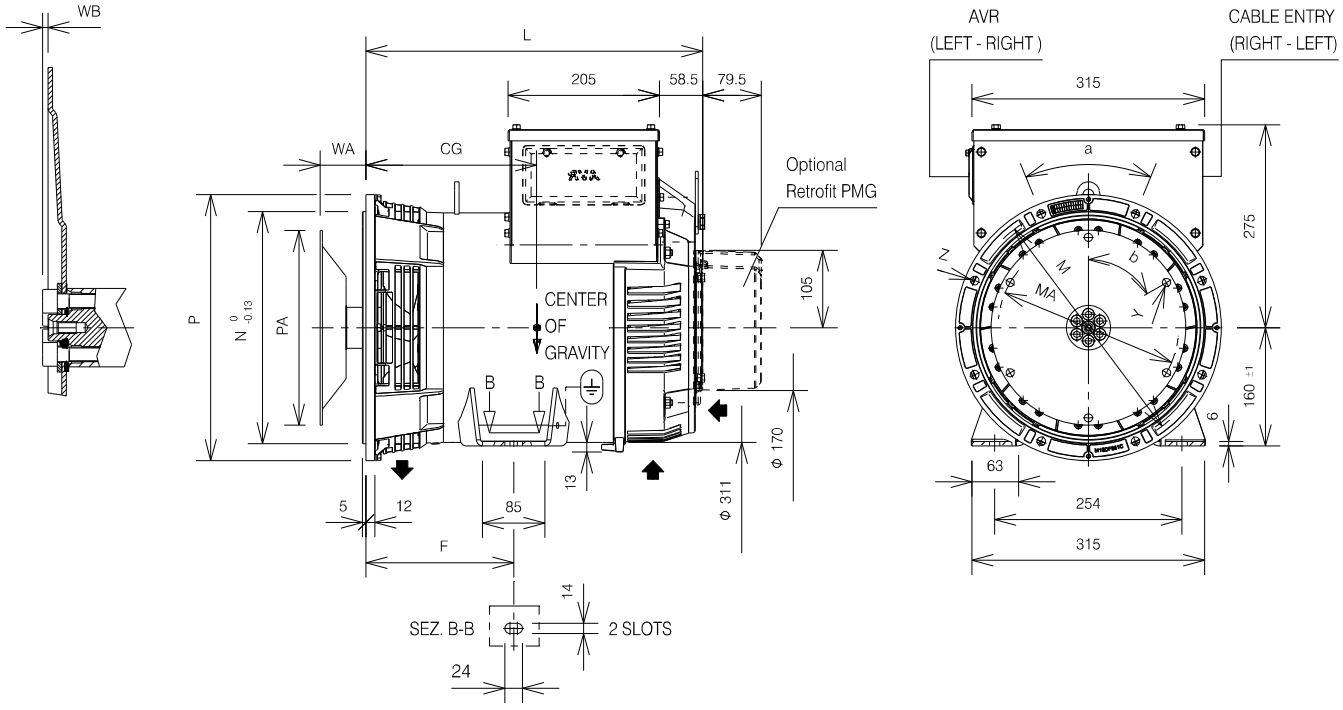
TECHNICAL DATA: 6 pole • 50Hz • 1000rpm and 60Hz • 1200rpm M.V.
8 pole • 50Hz • 750rpm and 60Hz • 900rpm

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty											
		3000V-3300V / 50Hz			6000V-6600V / 50Hz			4160V / 60Hz			6000V-6600V / 60Hz		
		125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT. cl. F	80/40 Ins. Cl. F ΔT cl. B	125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT. cl. F	80/40 Ins. Cl. F ΔT cl. B	125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT. cl. F	80/40 Ins. Cl. F ΔT cl. B	125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT. cl. F	80/40 Ins. Cl. F ΔT cl. B
6 POLES		**50Hz • 1000 rpm**						**60Hz • 1200 rpm**					**IP23**
MJH 560 SC6	6	1732	1620	1414	1604	1500	1310	2031	1900	1659	1796	1680	1467
MJH 560 MB6	6	2085	1950	1702	1924	1800	1571	2352	2200	1921	2138	2000	1746
MJH 560 LA6	6	2298	2150	1877	2138	2000	1746	2352	2200	1921	2191	2050	1790
MJH 630 MA6	6	2405	2250	1964	2245	2100	1833	2459	2300	2008	2298	2150	1877
MJH 630 LA6	6	2673	2500	2183	2459	2300	2008	2779	2600	2270	2512	2350	2052
MJH 630 LB6	6	2886	2700	2357	2673	2500	2183	2886	2700	2357	2673	2500	2183
MJH 710 SC6	6	3688	3450	3012	3688	3450	3012	3742	3500	3056	3581	3350	2925
MJH 710 MA6	6	4543	4250	3710	4383	4100	3579	4597	4300	3754	4383	4100	3579
MJH 710 MB6	6	4971	4650	4059	4811	4500	3929	5024	4700	4103	4811	4500	3929
MJH 710 LA6	6	5185	4850	4234	5024	4700	4103	5238	4900	4278	5024	4700	4103
MJH 710 LB6	6	5505	5150	4496	5345	5000	4365	5559	5200	4540	5345	5000	4365
MJH 800 MB6	6	6521	6100	5325	6521	6100	5325	7269	6800	5936	7162	6700	5849
MJH 800 LA6	6	7911	7400	6460	7911	7400	6460	7911	7400	6460	8018	7500	6548
MJH 800 LB6	6	8552	8000	6984	8552	8000	6984	8552	8000	6984	8552	8000	6984
8 POLES		**50Hz • 750 rpm**						**60Hz • 900 rpm**					**IP23**
MJH 560 MB8	6	1440	1350	1180	1340	1250	1090	1590	1490	1300	1470	1380	1200
MJH 560 LA8	6	1660	1550	1350	1540	1440	1260	1820	1710	1490	1690	1580	1380
MJH 630 MB8	6	1870	1750	1530	1710	1600	1400	2060	1930	1680	1880	1760	1540
MJH 630 LA8	6	2140	2000	1750	1920	1800	1570	2350	2200	1920	2120	1980	1730
MJH 630 LB8	6	2350	2200	1920	2140	2000	1750	2590	2420	2110	2350	2200	1920
MJH 710 SA8	6	2780	2600	2270	2570	2400	2100	3060	2860	2500	2820	2640	2300
MJH 710 SC8	6	2990	2800	2440	2890	2700	2360	3290	3080	2690	3170	2970	2590
MJH 710 MA8	6	3580	3350	2920	3470	3250	2840	3940	3690	3220	3820	3580	3120
MJH 710 MB8	6	4170	3900	3400	4010	3750	3270	4590	4290	3750	4410	4130	3600
MJH 710 MC8	6	4600	4300	3750	4490	4200	3670	5060	4730	4130	4940	4620	4030
MJH 710 LB8	6	4920	4600	4020	4810	4500	3930	5410	5060	4420	5290	4950	4320
MJH 800 MB8	6	5240	4900	4280	5240	4900	4280	5760	5390	4710	5760	5390	4710
MJH 800 MC	6	5560	5200	4540	5560	5200	4540	6110	5720	4990	6110	5720	4990
MJH 800 LA8	6	6200	5800	5060	6200	5800	5060	6820	6380	5570	6820	6380	5570
MJH 800 LB8	6	6410	6000	5240	6410	6000	5240	7060	6600	5760	7060	6600	5760
MJH 900 M 8	6	ON REQUEST			8020	7500	6550	ON REQUEST			8820	8250	7200
MJH 900 L 8	6	ON REQUEST			9090	8500	7420	ON REQUEST			10000	9350	8160

TECHNICAL DATA: 6 pole • 50Hz • 1000rpm and 60Hz • 1200rpm H.V.
8 pole • 50Hz • 750rpm and 60Hz • 900rpm

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty					
		10000V-11000V / 50Hz			13200V-13800V / 60Hz		
		125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT. cl. F	80/40 Ins. Cl. F ΔT cl. B	125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT. cl. F	80/40 Ins. Cl. F ΔT cl. B
6 POLES		**50Hz • 1000 rpm**			**60Hz • 1200 rpm**		**IP 23**
MJH 560 MB6	6	1604	1500	1310	1817	1700	1484
MJH 560 LA6	6	1710	1600	1397	2031	1900	1659
MJH 630 MA6	6	1817	1700	1484	2085	1950	1702
MJH 630 LA6	6	2138	2000	1746	2298	2150	1877
MJH 630 LB6	6	2779	2600	2270	2940	2750	2401
MJH 710 SC6	6	3314	3100	2706	3367	3150	2750
MJH 710 MA6	6	3742	3500	3056	4009	3750	3274
MJH 710 MB6	6	4490	4200	3667	4543	4250	3710
MJH 710 LA6	6	4811	4500	3929	4917	4600	4016
MJH 710 LB6	6	6414	6000	5238	6735	6300	5500
MJH 800 MB6	6	6949	6500	5675	6949	6500	5675
MJH 800 LA6	6	7697	7200	6286	7697	7200	6286
MJH 800 LB6	6	8285	7750	6766	8285	7750	6766
8 POLES		**50Hz • 750 rpm**			**60Hz • 900 rpm**		**IP 23**
MJH 630 LA8	6	1600	1500	1310	1680	1580	1370
MJH 630 LB8	6	1920	1800	1570	2020	1890	1650
MJH 710 SC8	6	2570	2400	2100	2690	2520	2200
MJH 710 MA8	6	3210	3000	2620	3370	3150	2750
MJH 710 MB8	6	3900	3650	3190	4100	3830	3350
MJH 710 MC8	6	4280	4000	3490	4490	4200	3670
MJH 710 LB8	6	4490	4200	3670	4710	4410	3850
MJH 800 MB8	6	4660	4360	3810	5130	4800	4190
MJH 800 MC8	6	5590	5230	4560	6150	5750	5020
MJH 800 LA8	6	6070	5680	4960	6680	6250	5460
MJH 800 LB8	6	6610	6180	5400	7270	6800	5940
MJH 900 M8	6	7700	7200	6290	8020	7500	6550
MJH 900 L8	6	8870	8300	7250	9300	8700	7600

DIMENSIONS
MXB-E 160 - single bearing



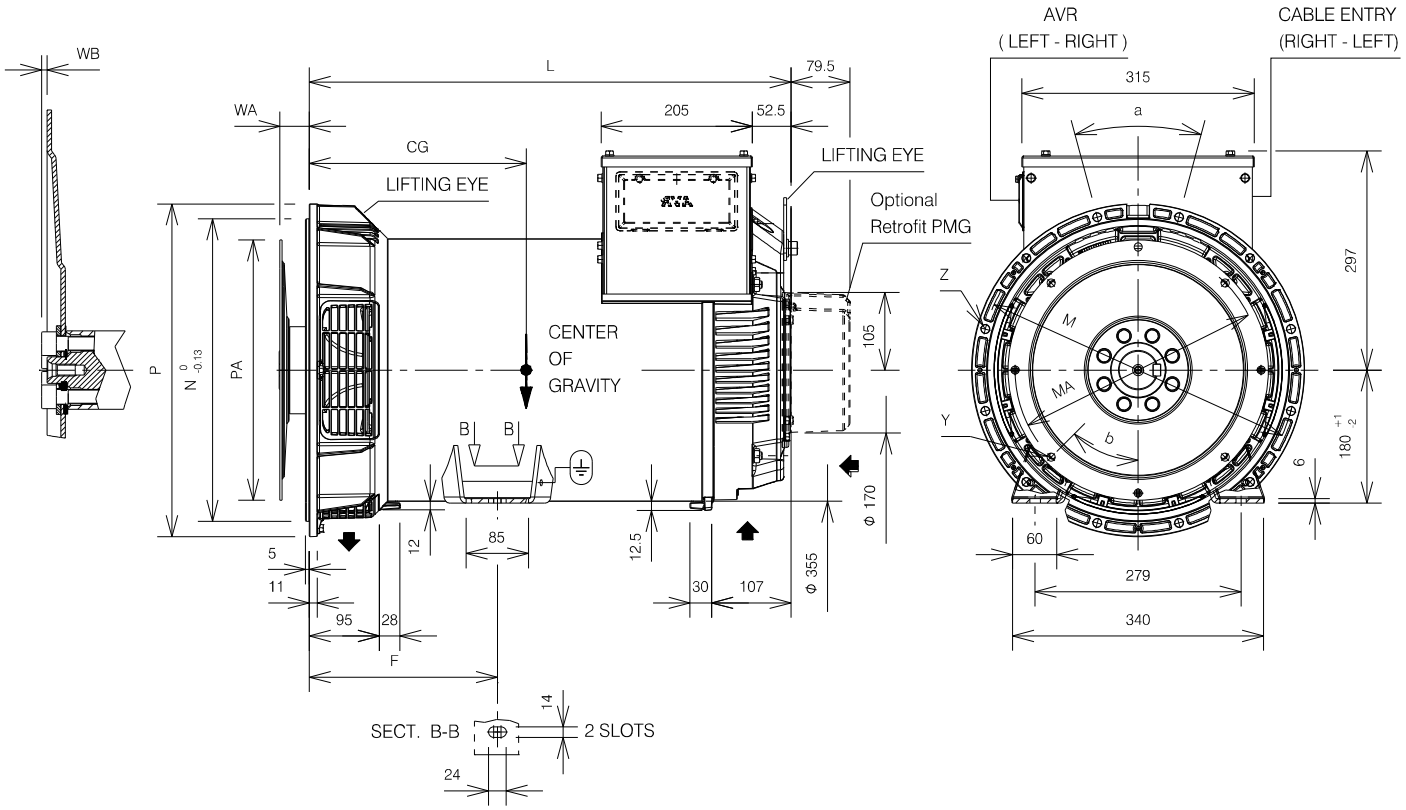
Type	Dimensions [mm]		
MXB-E	L	F	CG
			SAE 3-SAE 4-SAE 5
MXB-E 160 XA	416	200	198
MXB-E 160 SA			202
MXB-E 160 MX	441		208
MXB-E 160 MA			210
MXB-E 160 LA	456		223

Connections			
COUPLING	FLANGE		
SAE J620	SAE J617		
	5	4	3
6 1/2	●		
7 1/2	○	●	
8	●	●	●
10		●	●
11 1/2			●
● Available ○ Most common			

Dimensions [mm]													
FLANGE						COUPLING							
SAE	N	P	Z		a	SAE	PA	MA	Y		b	WA	WB
J617			NR	Ø		J620			NR	Ø			
5	314,32	360	8	11,5	45°	6 1/2	215,9	200	6	9	60°	30,2	13
4	361,95	407	12	11,5	30°	7 1/2	241,3	222,3	8	9	45°	30,2	13
3	409,58	455	12	11,5	30°	8	263,52	244,48	6	11	60°	62	-
						10	314,3	295,3	8	11	45°	53,8	13
						11 1/2	352,4	333,4	8	11	45°	39,6	13

DIMENSIONS

MXB-E 180 - single bearing



Type	Dimensions [mm]			
MXB-E	L	F	CG	
			SAE 4-SAE 5	SAE 2-SAE 3
MXB-E 180 XS	496	205	205	210
MXB-E 180 XB			217	222
MXB-E 180 SB			233	238
MXB-E 180 SC			245	250
MXB-E 180 MA	546	255	250	254
MXB-E 180 MC			260	264
MXB-E 180 LB	651		314	319

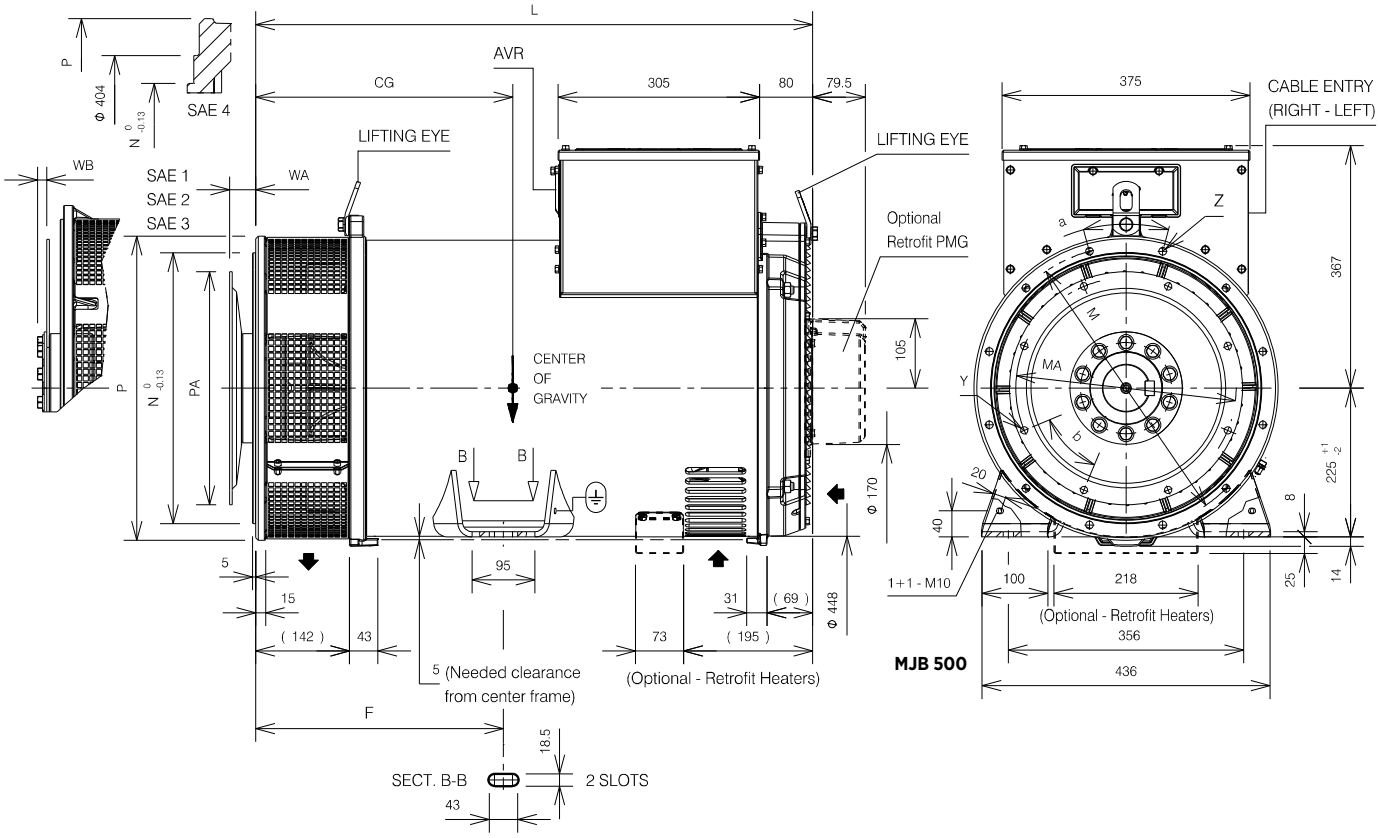
Connections				
COUPLING	FLANGE			
SAE J620	SAE J617			
	5(*)	4	3	2
6 1/2	●			
7 1/2	●	●		
8	●	●	●	●
10		●	●	●
11 1/2			○	●

● Available ○ Most common

(*) Not available for frame size MA4, MC4 and LB4

Dimensions [mm]													
FLANGE							COUPLING						
SAE	N	P	M	Z		a	SAE	PA	MA	Y		b	WA	WB
J617				NR	Ø		J620			NR	Ø			
5	314,32	355,6	333,38	8	11	45°	6 1/2	215,90	200,02	6	9	60°	30,2	13
4	361,95	403,4	381,00	12	11	30°	7 1/2	241,30	222,25	8	9	45°	30,2	13
3	409,58	450,8	428,62	12	11	30°	8	263,52	244,48	6	11	60°	62,0	-
2	447,68	489,0	466,72	12	11	30°	10	314,32	295,28	8	11	45°	53,8	13
							11 1/2	352,42	333,38	8	11	45°	39,6	13

DIMENSIONS
MXB-E 225 - single bearing



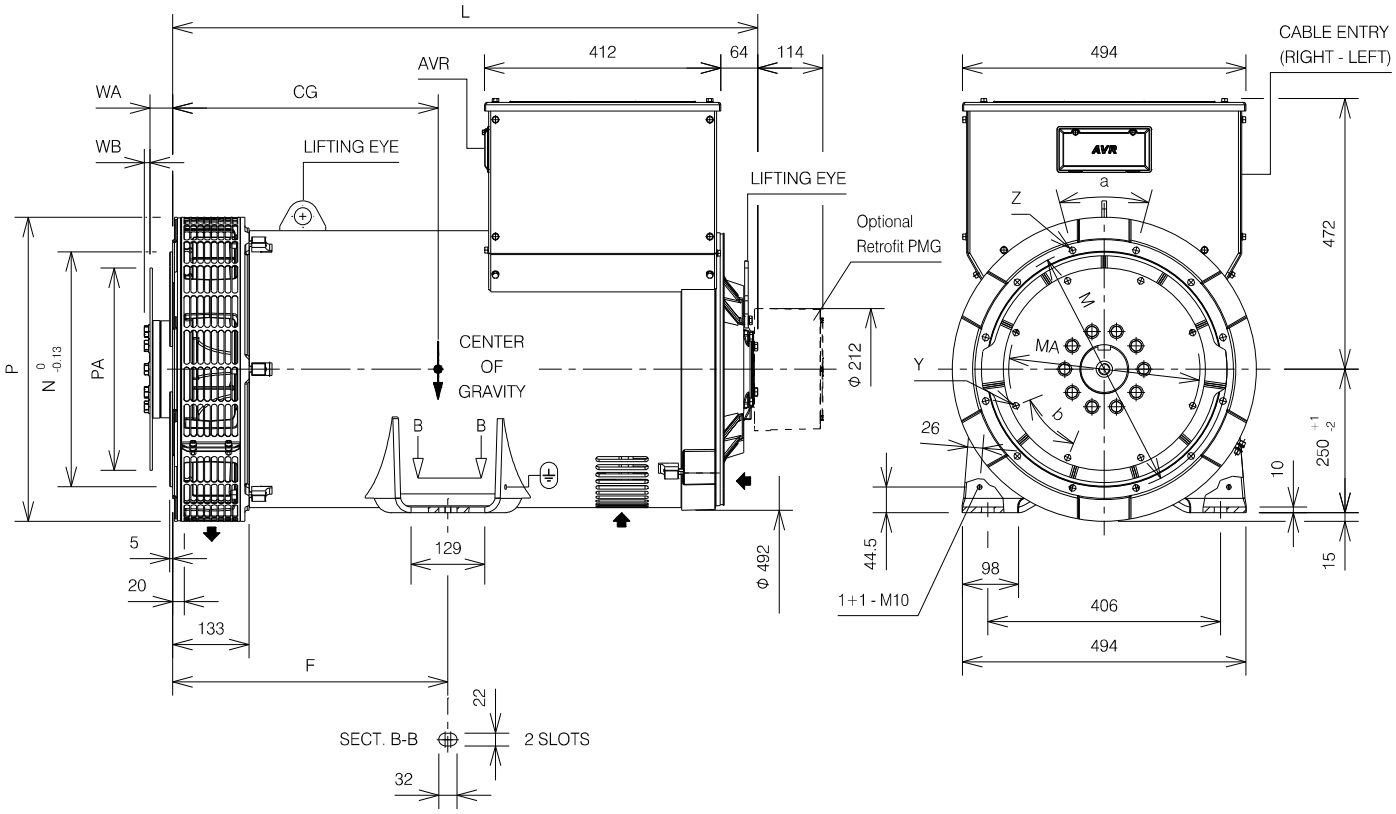
Type	Dimensions [mm]			
MXB-E	L	F	CG	CG
			SAE4-SAE3	SAE2-SAE1
MXB-E 225 XA	708	325	325	312
MXB-E 225 XB			329	317
MXB-E 225 SB			352	348
MXB-E 225 MA	778	375	344	331
MXB-E 225 MB			386	372
MXB-E 225 LA	843		389	377
MXB-E 225 LB			436	423

Connections				
COUPLING	FLANGE			
SAE J620	SAE J617			
	4	3	2	1
10	●	●		
11 1/2		○	●	●
14				●
● Available	○ Most common			

Dimensions [mm]														
FLANGE							COUPLING							
SAE	N	P	M	Z		a	SAE	PA	MA	Y		b	WA	WB
J617				NR	Ø		J620			NR	Ø			
4	361,95	460	381,00	12	11	30°	10	314,32	295,28	8	11	45°	53,8	-
3	409,58	460	428,62	12	11	30°	11 1/2	352,42	333,38	8	11	45°	39,6	-
2	447,68	495	466,72	12	11	30°	14	466,72	438,15	8	14	45°	25,4	14
1	511,18	552,5	530,22	12	11	30°								

Technical data may be subject to change to update or improve products, without prior notice.

DIMENSIONS
MXB-E 250 - single bearing



Type	Dimensions [mm]		
MXB-E	**L**	**F**	**CG**
MXB-E 250 SA	800	345	370
MXB-E 250 SB			380
MXB-E 250 MA	910	425	415
MXB-E 250 MB			430
MXB-E 250 LA	1020	480	485
MXB-E 250 LB			

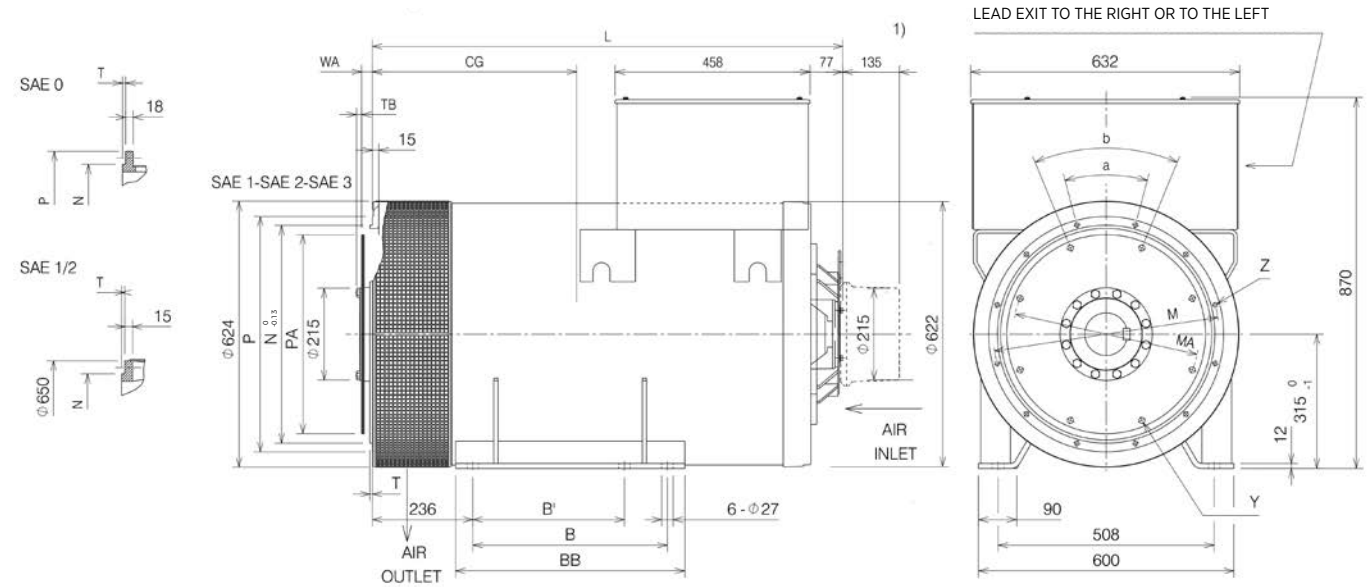
Connections			
COUPLING	**FLANGE**		
SAE J620	**SAE J617**		
	3	2	1
11 1/2	○	●	●
14			●
● Available	○ Most common		

Dimensions [mm]														
FLANGE							COUPLING							
SAE	N	P	M	Z		a	SAE	PA	MA	Y		b	WA	WB
J617				No	DIA		J620			No	DIA			
3	409.58	530	428.62	12	11.5	30°	11 1/2	325.42	333.38	8	11	45°	39.6	10
2	447.68	530	466.72	12	11.5	30°	14	466.72	438.15	8	14	45°	25.4	10
1	511.18	552	530.22	12	11.5	30°								

Technical data may be subject to change to update or improve products, without prior notice.

DIMENSIONS
MJB 315 - single bearing

DIMENSIONS IN mm G= CENTER OF GRAVITY 1)PMG OPTIONAL CHANGES RESERVED



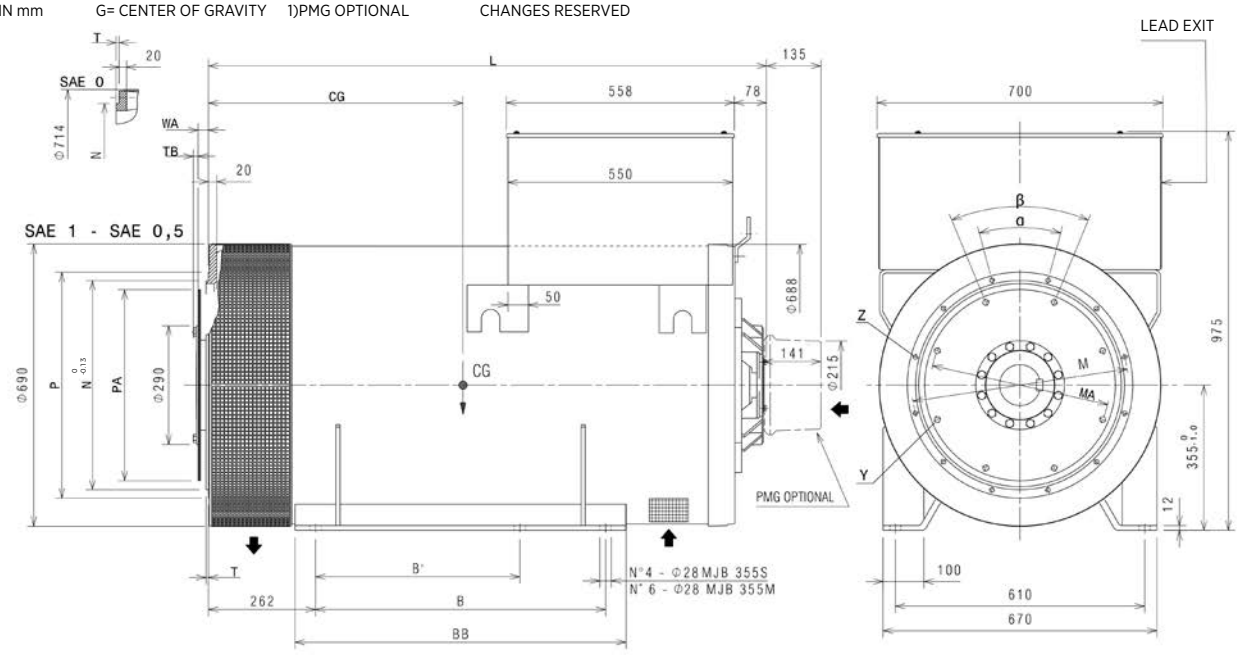
Type	Dimensions [mm]				
MJB 315	**L**	**B'**	**B**	**BB**	**CG**
MJB 315 SA	945	267	368	450	410
MJB 315 SB					440
MJB 315 MA	1105	356	457	540	470
MJB 315 MB					505

Connections					
COUPLING	**FLANGE**				
SAE J620	**SAE J617**				
	3	2	1	1/2	0
11.5	•	•			
14			•	•	•
16				•	•
18					•

Dimensions [mm]															
FLANGE								**COUPLING**							
SAE J617	**N**	**P**	**M**	**T**	**Z**		**a**	**SAE J620**	**PA**	**MA**	**Y**		**b**	**WA**	**TB**
					NR	**Ø**					**NR**	**Ø**			
3	409.58	451	428.62	5	12	11.5	30°								
2	447.68	490	466.72	5	12	11.5	30°	11.5	352.42	333.4	8	11	45°	39.6	12
1	511.18	552	530.22	6	12	11.5	30°	14	466.72	438.2	8	14	45°	25.4	12
1/2	584.20	648	619.20	6	12	14	30°	16	517.52	489.0	8	14	45°	15.7	15
0	647.70	711	679.50	6	16	14	22.5°	18	571.50	542.9	6	18	60°	15.7	15

DIMENSIONS
MJB 355 - single bearing

DIMENSIONS IN mm G= CENTER OF GRAVITY 1)PMG OPTIONAL CHANGES RESERVED



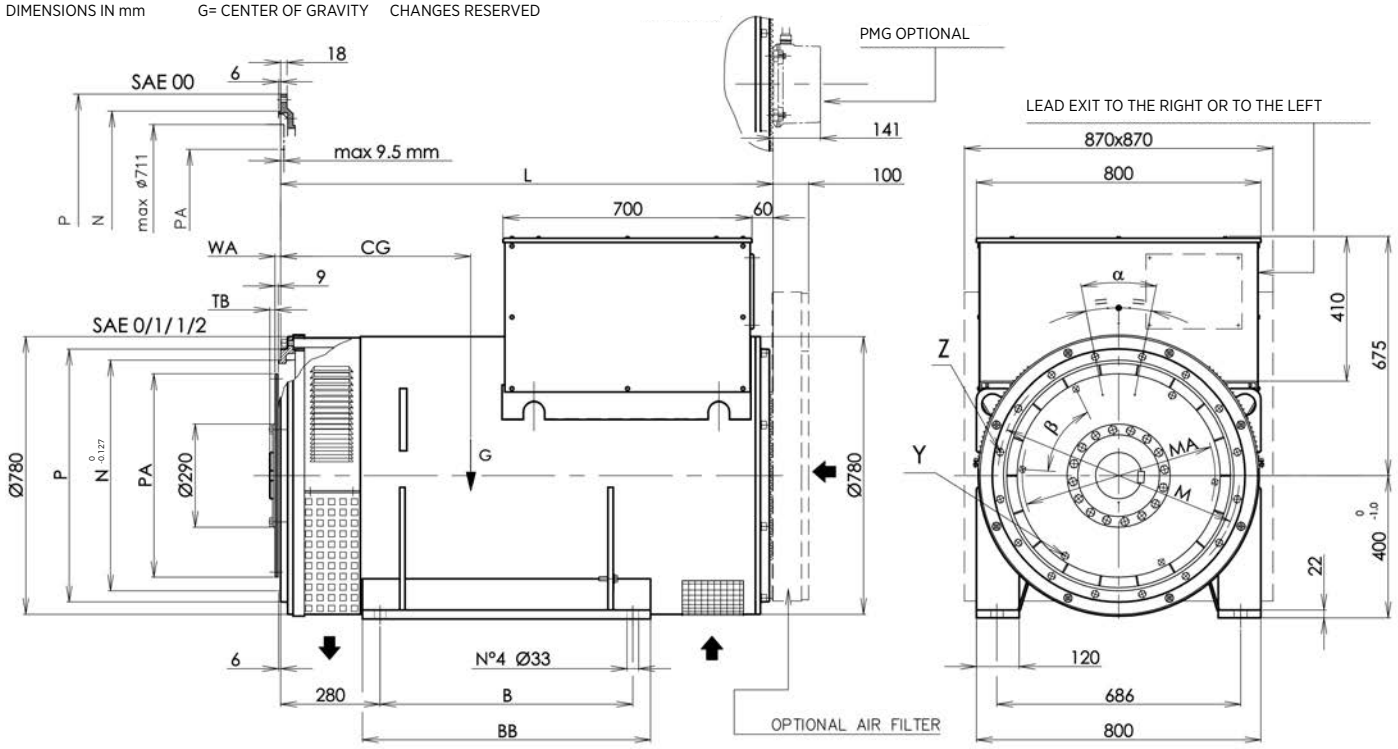
Type	Dimensions [mm]				
MJB 355	**L**	**B'**	**B**	**BB**	**CG**
MJB 355 SA	1136	-	500	600	500
MJB 355 SB					535
MJB 355 MA	1366	500	710	810	600
MJB 355 MB					640

Connections			
COUPLING	**FLANGE**		
SAE J620	**SAE J617**		
	1	1/2	0
14	•	•	•
18			•

Dimensions [mm]															
FLANGE								**COUPLING**							
SAE J617	**N**	**P**	**M**	**T**	**Z**		**α**	**SAE J620**	**PA**	**MA**	**Y**		**β**	**WA**	**TB**
					NR	**Ø**					**NR**	**Ø**			
1	511.18	552	530.22	6	12	11.5	30°	14	466.72	438.2	8	14	45°	25.4	12
1/2	584.20	648	619.20	6	12	14	30°	18	571.50	542.9	6	18	60°	15.7	15
0	647.70	711	679.50	6	16	14	22.5°								

DIMENSIONS
MJB 400 - single bearing

DIMENSIONS IN mm G= CENTER OF GRAVITY CHANGES RESERVED



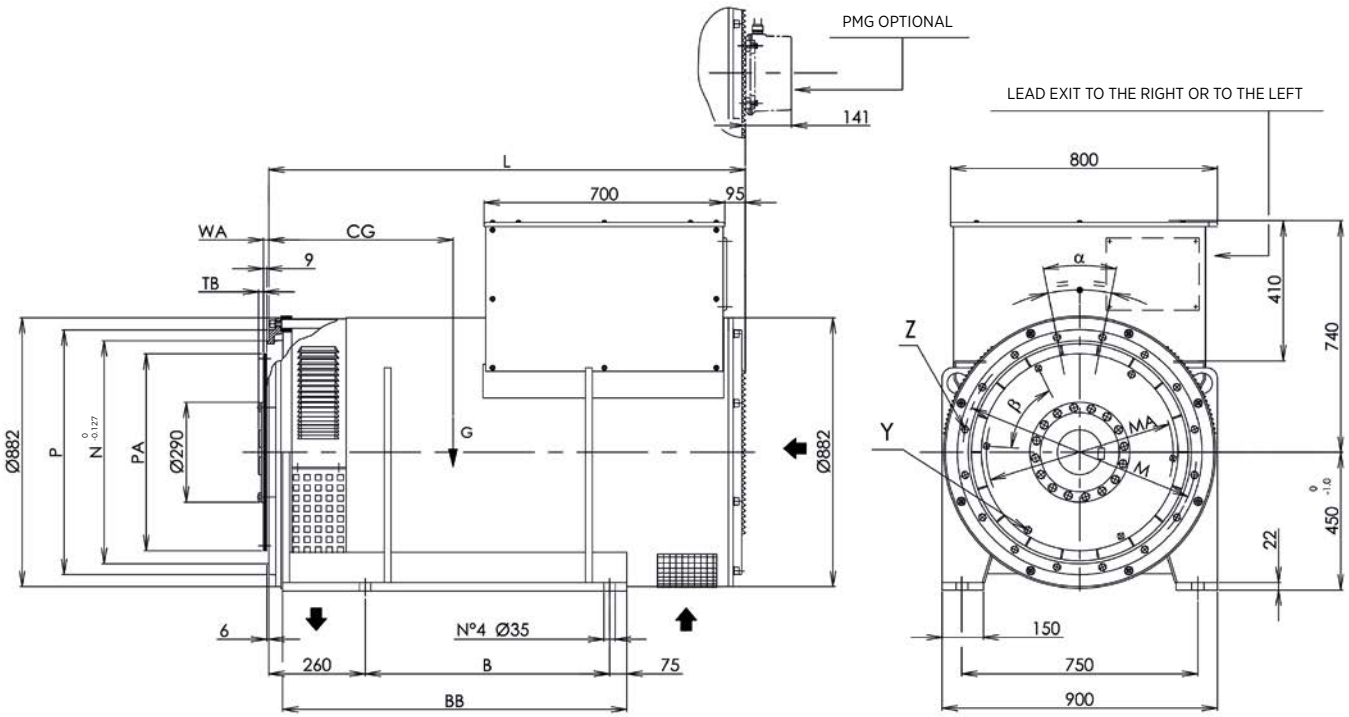
Type	Dimensions [mm]			
MJB 400	**L**	**B**	**BB**	**CG**
MJB 400 SA	1200	560	660	500
MJB 400 SB				530
MJB 400 MA	1400	710	810	580
MJB 400 MB				630
MJB 400 LA	1600	900	1000	680
MJB 400 LB				730

Connections				
COUPLING	**FLANGE**			
SAE J620	**SAE J617**			
	1	1/2	0	00
14	•	•	•	
16			•	•
18			•	•
21				•

Dimensions [mm]														
FLANGE							**COUPLING**							
SAE J617	**N**	**P**	**M**	**Z**		**α**	**SAE J620**	**PA**	**MA**	**Y**		**β**	**WA**	**TB**
				NR	**Ø**					**NR**	**Ø**			
1	511.18	552	530.22	12	11.5	30°	14	466.72	438.2	8	14	45°	25.4	15
1/2	584.20	648	619.10	12	14	30°	16	571.52	489.0	8	14	45°	15.7	15
0	647.70	711	679.50	16	14	22.5°	18	571.50	542.9	6	18	60°	15.7	15
00	787.40	883	851.00	16	14	22.5°	21	673.10	641.4	12	18	30°	0	31

DIMENSIONS
MJB 450 - single bearing

DIMENSIONS IN mm G= CENTER OF GRAVITY CHANGES RESERVED



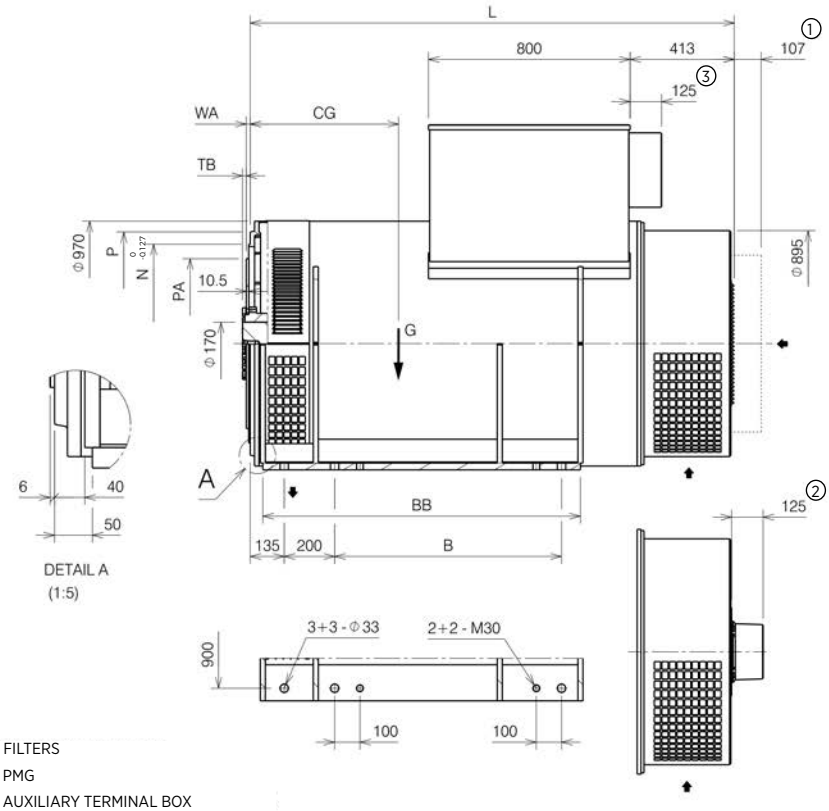
Type	Dimensions [mm]			
MJB 450	**L**	**B**	**BB**	**CG**
MJB 450 MB	1577	900	1185	650
MJB 450 LA	1757	1120	1405	780
MJB 450 LB				830

Connections				
COUPLING	**FLANGE**			
SAE J620	**SAE J617**			
	1	1/2	0	00
18			•	•
21				•

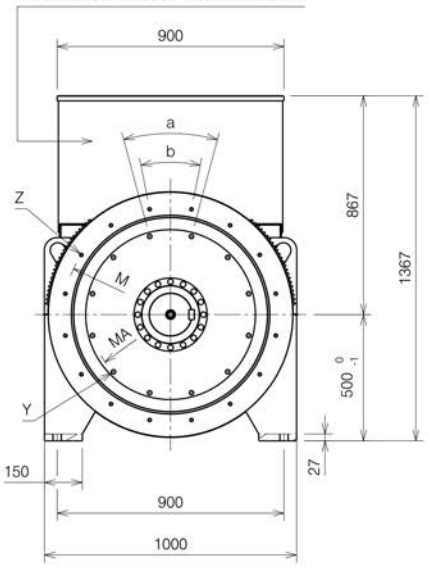
Dimensions [mm]														
FLANGE							**COUPLING**							
SAE J617	**N**	**P**	**M**	**Z**		**α**	**SAE J620**	**PA**	**MA**	**Y**		**β**	**WA**	**TB**
				NR	**Ø**					**NR**	**Ø**			
1	511.18	552	530.22	12	11.5	30°	14	466.72	438.2	8	14	45°	25.4	15
1/2	584.20	648	619.10	12	14	30°	16	517.52	489.0	8	14	45°	15.7	15
0	647.70	711	679.50	16	14	22.5°	18	571.50	542.9	6	18	60°	15.7	15
00	787.40	883	851.00	16	14	22.5°	21	673.10	641.4	12	18	30°	0	31

DIMENSIONS
MJB 500 - single bearing

DIMENSIONS IN mm G= CENTER OF GRAVITY CHANGES RESERVED



LEAD EXIT TO THE RIGHT OR TO THE LEFT
12 TERMINAL CABLES: LEAD EXIT TO THE RIGHT



① WITH FILTERS
② WITH PMG
③ WITH AUXILIARY TERMINAL BOX

Type	Dimensions [mm]			
MJB 500	L	B	BB	CG
MJB 500 SA	1720	710	1070	630
MJB 500 SB				655
MJB 500 SC				720
MJB 500 MA	1920	900	1260	745
MJB 500 MB				770
MJB 500 MC				820
MJB 500 LA	2020	1000	1360	860

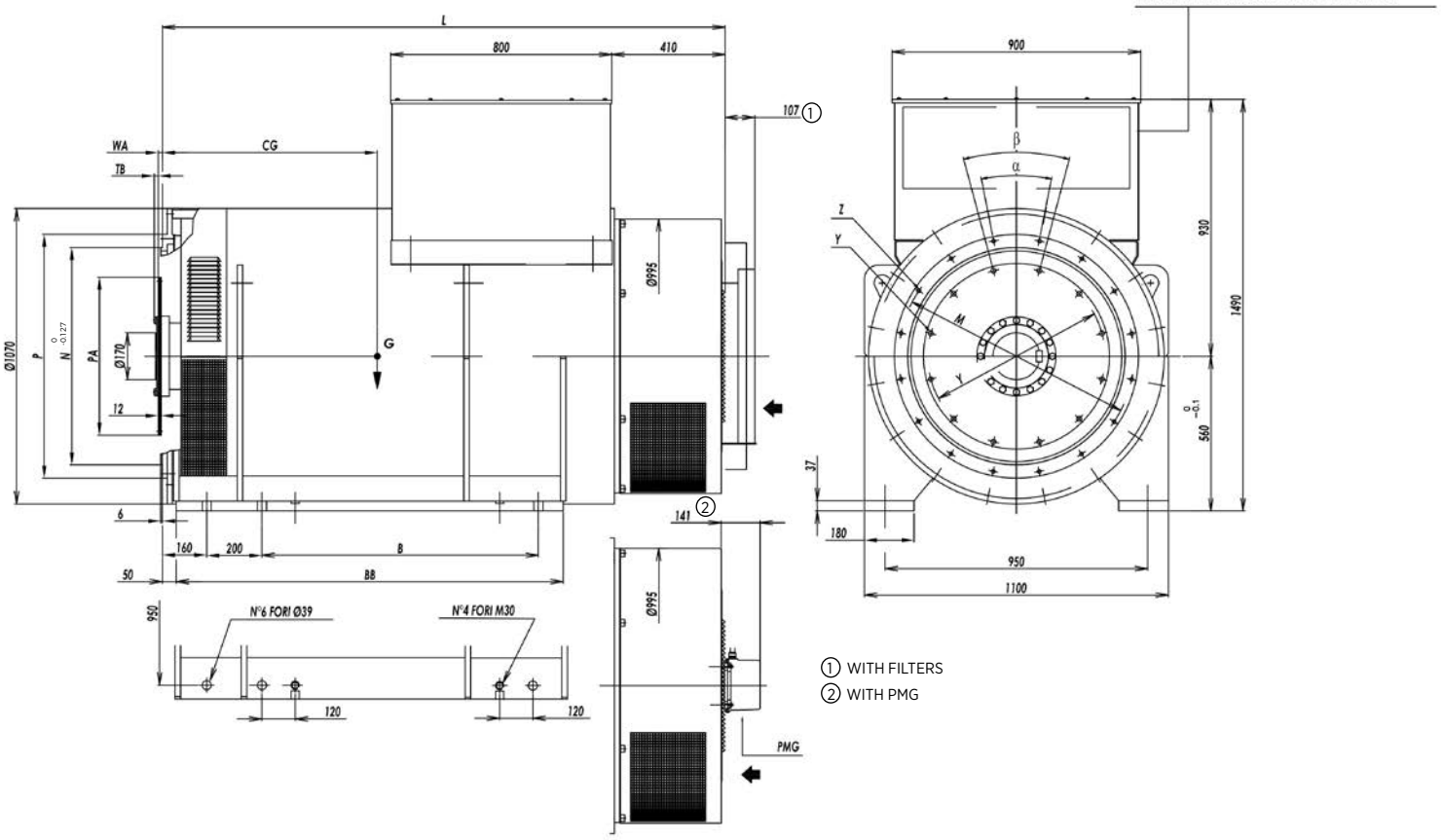
Connections		
COUPLING	FLANGE	
SAE J620	SAE J617	
	0	00
14	•	
16	•	•
18	•	•
21		•

Dimensions [mm]														
FLANGE							COUPLING							
SAE J617	N	P	M	Z		a	SAE J620	PA	MA	Y		b	WA	TB
				NR	Ø					NR	Ø			
							14	466.72	438.2	8	14	45°	25.4	15
							16	517.52	489.0	8	14	45°	15.7	15
0	647.70	711	679.50	16	14	22.5°	18	571.50	542.9	6	18	60°	15.7	15
00	787.40	883	851.00	16	14	22.5°	21	673.10	641.4	12	18	30°	0	25.3

DIMENSIONS
MJB 560 - single bearing

DIMENSIONS IN mm G= CENTER OF GRAVITY CHANGES RESERVED

LEAD EXIT TO THE RIGHT OR TO THE LEFT
12 TERMINAL CABLES: LEAD EXIT TO THE RIGHT



Type	Dimensions [mm]			
MJB 560	**L**	**B**	**BB**	**CG**
MJB 560 SA	1835	800	1200	725
MJB 560 SB				790
MJB 560 MA	2035	1000	1400	815
MJB 560 MB				840
MJB 560 LA	2135	1100	1500	890
MJB 560 LB				930

Connections		
COUPLING	**FLANGE**	
SAE J620	**SAE J617**	
	0	00
18	•	•
21		•

Dimensions [mm]														
FLANGE							COUPLING							
SAE J617	N	P	M	Z		α	SAE J620	PA	MA	Y		β	WA	TB
				NR	Ø					NR	Ø			
0	647.70	711	679.50	16	14	22.5°	18	571.50	542.9	6	18	60°	15.7	15
00	787.40	883	851.00	16	14	22.5°	21	673.10	641.4	12	18	30°	0	25.3

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