MarelliMotori
Powering the future®

MXB-E • MJB • MJH Generator Series

Product catalogue

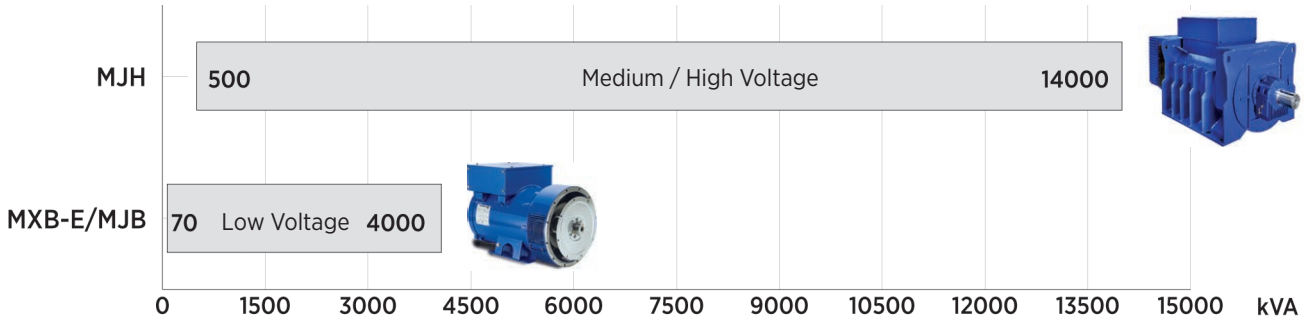
COMCATCOG001_C - Ed. 06/2022

Cogeneration

INDEX

SYNCHRONOUS GENERATORS FOR COGENERATION

MXB-E • MJB • MJH Series



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 temperature rise of 105° over 40° ambient temperature
- Class H temperature rise: generator can reach a temperature rise 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.

OPERATING CONDITIONS

Altitude

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

Altitude (m a.s.l.)	< 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.

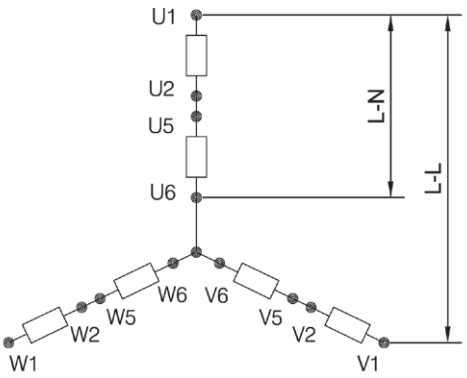
Power factor	1,0	0,8	0,7	0,6	0,5	0,3	0
K factor	1,00	1,00	0,93	0,88	0,84	0,82	0,80

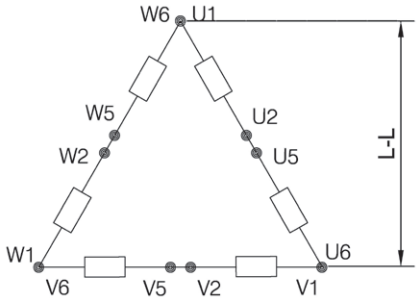
Configuration

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

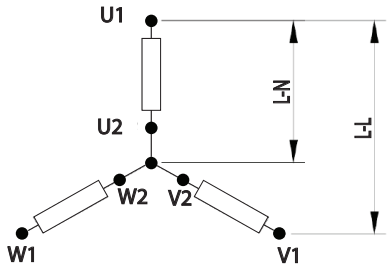
Generator series	K Factor		
	Inlet filter	Inlet + Outlet filter IP 43	Inlet + Outlet filter IP 44
MXB-E	0,95	0,92	0,90
MJB	0,92	0,85	0,80
MJH	0,92	0,85	0,80

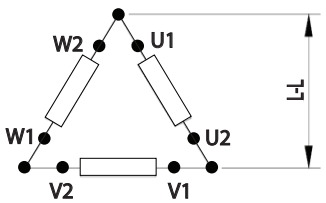
CONNECTIONS • 12 Leads

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	-	

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	-	

*Voltage non available on MJB 400 frame
Other winding codes and special voltages available on request

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	225 ÷ 250	-	500 ÷ 560	630 ÷ 800	-	-	315 ÷ 450	-	-
	3-ph sensing	-	-	-	-	-	500 ÷ 560	225 ÷ 450	-	630 ÷ 800
	PMG	-	225	-	-	-		315 ÷ 450	-	
	UL	225 ÷ 250	-	-	-	315 ÷ 450	-	-	500 ÷ 800	-
	Grid code	-	-	-	-	-	-	225 ÷ 450		-
AVR supply		Mains, 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		Included							Arrangement for external filters	
Over-excitation device		Auxiliary winding	PMG	VARICOMP			PMG	Auxiliary winding	VARICOMP / PMG	
Parallel operation with the mains		-	-	Arrangement for external A.P.F.R.					Included	
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

<table>
<tr><th colspan="2" rowspan="2">AVR type</th><th colspan="3">Analogue</th><th colspan="4">Digital</th></tr>
<tr><th>MGC I</th><th>MGC II</th><th>MARK X</th><th colspan="2">D-Vo</th><th colspan="2">D-Vo Light</th></tr>
<tr><td colspan="2">Code</td><td>110001467</td><td>110004378</td><td>10005161</td><td colspan="2">10024470</td><td colspan="2">10024471</td></tr>
<tr><td colspan="2">Generator voltage</td><td colspan="3">≤6900V</td><td>≤6900V</td><td>>6900V</td><td>≤6900V</td><td>>6900V</td></tr>
<tr><td rowspan="5">Generator frame size</td><td>Standard</td><td>400 ÷ 560</td><td>630 ÷ 900</td><td>-</td><td>-</td><td>-</td><td>-</td><td rowspan="3">400 ÷ 900</td></tr>
<tr><td>3-ph sensing</td><td>-</td><td>-</td><td rowspan="2">400 ÷ 560</td><td colspan="2">400 ÷ 900</td><td rowspan="2">630 ÷ 900</td></tr>
<tr><td>PMG</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>UL</td><td>-</td><td>-</td><td>-</td><td colspan="2" rowspan="2">400 ÷ 900</td><td>-</td><td>-</td></tr>
<tr><td>Grid code</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td colspan="2">AVR possible supply</td><td colspan="2">Mains</td><td>PMG</td><td>Mains,
Auxiliary winding,
PMG</td><td>PMG</td><td>Mains,
Auxiliary winding,
PMG</td><td>PMG</td></tr>
<tr><td colspan="2">Voltage sensing</td><td colspan="2">Single phase</td><td>Three phase [1]</td><td colspan="4">Three phase [1]</td></tr>
<tr><td colspan="2">Voltage remote control</td><td colspan="3">Arrangement</td><td colspan="4">Arrangement</td></tr>
<tr><td colspan="2">Radio interference suppressor</td><td colspan="3">Included</td><td colspan="4">Arrangement for external filters</td></tr>
<tr><td colspan="2">Over-excitation device</td><td colspan="2">VARICOMP [2]</td><td>PMG</td><td colspan="4">VARICOMP / PMG</td></tr>
<tr><td colspan="2">Parallel operation with the mains</td><td colspan="3">Arrangement for external A.P.F.R.</td><td colspan="4">Included</td></tr>
<tr><td colspan="2">Parallel operation with similar generators</td><td colspan="3">Arrangement</td><td colspan="4">Arrangement</td></tr>
<tr><td colspan="2">Standard protections</td><td colspan="2">-</td><td>Field
over-current</td><td colspan="4">Field over-current,
field over-voltage,
Generator over/under voltage,
Generator over-current,
Loss of sensing</td></tr>
<tr><td colspan="2">Limiters</td><td colspan="3">Under-frequency</td><td colspan="4">Under-frequency,
Over/Under-excitation</td></tr>
<tr><td colspan="2">Functions</td><td colspan="3">Auxiliary inputs</td><td colspan="4">PC interface,
soft start,
auxiliary inputs,
contact inputs,
DMS
Modbus TCP
FRT function
-
-</td></tr>
<tr><td colspan="2">Certifications</td><td>-</td><td>-</td><td>-</td><td colspan="2">DNV-GL
UL</td><td colspan="2">DNV-GL</td></tr>
</table>

[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

Construction		**225**	**250**
Applicable Standards		IEC 60034-1; BS 4999-5000; NEMA MG 1.32	
Certifications		UL 1004-1, UL 1004-4, C22.2 No. 100	
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	
Insulation system		Class H for stator and rotor	
Main components		**225**	**250**
Magnetic steel		Low losses. Insulated on both sides	
Housing		Fabricated steel	
N-End Endshield		Aluminum alloy	Cast iron
D-End Endshield		Cast iron	
SAE Adaptor		Cast iron	
Shaft		Steel according to EN 10025	
Fan		Aluminum	
Fan blades		Bidirectional	
Main terminal box		Fabricated steel	
Position of main terminal box		On top	
Terminal board	Leads	12	
	Terminals	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 EC 60034-14 to vribration grade normal A	
Impregnation		Epoxy resin through high quality process	
Winding pitch		2/3 (standard winding and 60Hz dedicated)	
Bearing data		**225**	**250**
Bearing type	D-End	6215-2RS-C3-WT	6218-C3
	N-End	1-bearing: 6309-2RS1-C3 2-bearing: 6309-2RS1-C3-WT	6313-2Z-C3
Bearing lifetime		≥20.000 hours	
Grease Nipple	D-End	Not applicable	On request
	N-End	Not applicable	On request
Excitation system		**225**	**250**
Excitation type		Brushless with rotating rectifier (Graetz 6-Diode bridge with EMI filter)	
AVR Position		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 (Isc) higher than 3 times the rated current (In): Isc > 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		**225**	**250**
Ambient temperature		-15°C / +40°C	
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		Typically THD <2% at no load	
Parallel operations		Generators are provided with an amply sized damper cage and suitable for parallel operations with other generators, when equipped with the parelleling unit	
Winding treatment		Standard winding impregnation for non-aggressive environment with relative humidity ≤95%	
Characteristics of options		**225**	**250**
Anticondensation heaters [V / Hz / W]		230 / 50-60 / 125	230 / 50-60 / 125
PTC operating temperatures for H / F / B temp. rise [°C]		170 / 155 / 130	
Painting		Primer 9005 (without final painting coat)	

MXB-E • Low Voltage • OPTIONS

ID	Description	Generator frame size	
		225	250
100	Double Bearing configuration	o	o
101	Auxiliary winding	o	o
102	6-leads winding	o	o
107	Anti-condensation heaters	o	o
109	N. 3 CT single core on neutral point	n/a	o
110	N. 3 PTC thermistors	o	o
111	Special voltage including 380V 60Hz dedicated winding	o	o
112	N. 3 PT100 resistance temperature detectors in stator windings	o	o
113	Separate auxiliary terminal box	o	o
117	Provision for parallel operation with similar generators with AVR(1)	o	o
120	N. 1 PT100 on N-End bearing	o	o
121	N. 1 PT100 duplex type on N-End bearing	o	o
128	N. 1 PT100 duplex type on D-End bearing (for double bearing configuration)	o	o
129	N. 1 PT100 on D-End bearing (for double bearing configuration)	o	o
156	N-End grease nipple	n/a	o
157	D-End grease nipple	o	o
159	Single-phase sensing AVR (Mark VX), side mounted	o	o
160	Single-phase sensing AVR (Mark VX), front mounted	s	s
161	Three-phase sensing AVR (MEC-20), side mounted(1)	o	o
162	Three-phase sensing AVR (MEC-20), front mounted(1)	n/a	o
163	PMG with single-phase AVR (Mark XX), side mounted	o	n/a
164	PMG with single-phase AVR (Mark XX), front mounted	o	n/a
165	PMG with three-phase AVR (MEC-20), side mounted(1)	o	o
166	PMG with three-phase AVR (MEC-20), front mounted(1)	n/a	o
167	PMG with digital AVR (D-Vo) mounted on board (standard on right side)	n/a	o
168	Digital AVR (D-Vo) mounted on board (standard on right side)	n/a	o
169	Analogue automatic power factor regulator (mounted on board)(1)	n/a	o
210	Inlet filter	o	o
211	Inlet + outlet filter (IP43)	o	o
212	Inlet + outlet filter (IP44)	o	o
213	IP55 Terminal Box	o	o
217	Tropicalisation (CW1081)	o	o
918	Finishing painting colour	o	o
930	Special painting process (MM ref. F96819)	o	o

(1) Option not covered by UL certification

o: optional
n/a: not available
s: standard

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						Not applicable	
Shaft	Steel according to EN 10025							
Fan	Aluminum			Aluminum (4 poles) / Steel (>4 poles)			Steel	
Fan blades	Bidirectional							
Main terminal box	Fabricated steel							
Position of main terminal box	On top							On the right side when seen from D-End
Terminal board	12 leads*		6 leads					
Cable entry	On the right side when seen from D-End, undrilled plate							
Rotor, balancing and vibration grade	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	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
Bearing type 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	20.000 hours		50.000 hours				100.000 hours	
Grease nipple D-End	Included							
Grease nipple N-End	Not included			Included				
N-End insulated bearing	Not included		Included (≥8 poles)				Included	
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)							
AVR Position	Front mounted		Back mounted					
Power supply to the AVR	Auxiliary winding / PMG				Mains (≤400V) / Auxiliary winding (>400V) / PMG			
Overboosting system	Auxiliary winding (4 poles) Varicomp (>4 poles)				Varicomp			
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							
EMI filter	Included							
Operating conditions	**315**	**355**	**400**	**450**	**500**	**560**	**630**	**710**
Ambient temperature	-15°C / +40°C							
Maximum overspeed	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	Advanced axial		Axial and radial					
Radio interference	Radio interference Class B Group 1 as EN 55011							
THD	Typically THD <2% at no load							
Parallel operations	Generators are provided with an amply sized damper cage and are suitable for parallel operations with other generators							
Winding treatment	Special treatment on windings for aggressive environment and relative humidity higher than 95% included							
Characteristics of options	**315**	**355**	**400**	**450**	**500**	**560**	**630**	**710**
Anticondensation heaters [V / Hz / W]	230 / 50-60 / 200		230 / 50-60 / 400				230 / 50-60 / 600	
PTC operating temperatures for H / F / B temp. rise [°C]	170 / 155 / 130							
Standard painting process / RAL	F96833 / 5010							

* MJB355MB4 with 6 leads winding only
** Winding pitch optimised on generator model

MJB • Low Voltage • OPTIONS

ID		Description	Generator frame size							
			315	355	400	450	500	560	630	710
103		12 leads winding	s	s[1]	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
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
131		Protection degree IP55 for air-to-fresh water heat exchanger	o	o	o	o	o	o	o	o
132		Protection degree IP56 for air-to-fresh water heat exchanger	x	x	x	x	x	x	x	x
136		D-End special shaft extension	o	o	o	o	o	o	o	o
138		N-End grease nipple	o	o	o	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
144		B5 adaptor	o	o	o	o	o	o	o	o
162		Three phase sensing with dedicated AVR mounted	s	s	s	s	o	o	o	o
166		PMG with dedicated AVR	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
172	113	Digital AVR (D-Vo Light) mounted on board	o	o	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		Insulated N-End bearing[2]	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 protection device)	o	o	o	o	o	o	o	o
185		12 diodes rotating rectifier	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
304		Special voltage	o	o	o	o	o	o	o	o
919		Painting colour different from standard RAL[3]	o	o	o	o	o	o	o	o
930		Special painting process (MM ref. F96819)	o	o	o	o	o	o	o	o

[1] MJB355MB4 with 6 leads winding only
[2] Standard on all ≥ 8 poles generators
[3] No extra price for RAL 9005

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				Not applicable		
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						
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		50.000 hours						
Grease nipple	D-End	Included						
	N-End	Not included	Included					
N-End insulated bearing		Included (≥8 poles)				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 poles: 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		Generators are provided with an amply sized damper cage and suitable for parallel operations with other generators						
Winding treatment		Special treatment on windings for aggressive environment and relative humidity higher than 95% included						
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
PT100 detectors in stator windings		Included						
Standard painting process / RAL		F96833 / 5010						

MJH • Medium / High Voltage • OPTIONS

ID		Description	Generator frame size						
			400	450	500	560	630	710	≥800
110	113	N. 3 PT1000 in stator windings with terminals in aux terminal box	o	o	o	o	o	o	o
122		N. 1 PT100 in bearings	o	o	o	o	s	s	s
123		N. 1 PT100 duplex type in bearings	o	o	o	o	o	o	o
124		N. 1 PT1000 in bearings	o	o	o	o	o	o	o
125		N. 1 PT1000 duplex type in bearings	o	o	o	o	o	o	o
126		N. 1+1 PT100 air inlet/outlet	o	o	o	o	o	o	o
127		N. 1+1 PT100 duplex type air inlet/outlet	o	o	o	o	o	o	o
131		Protection degree IP55 for air-to-fresh water heat exchanger	o	o	o	o	o	o	o
132		Protection degree IP56 for air-to-fresh water heat exchanger	x	x	x	x	x	x	x
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
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 n.1 vibration sensor on each shield. M8 radial hole	o	o	o	o	o	o	o
144		B5 adaptor	o	o	o	o	o	o	o
145		Arrangement for n.3 vibration sensors (x,y,z axis) on locating bearing and n.2 vibration sensors on guide bearing (x,y axis). M8 radial hole	o	o	o	o	o	o	o
146		N.1 vibration sensor on each shield (transducer excluded)	o	o	o	o	o	o	o
147		N.3 vibration sensors (x,y,z axis) on locating bearing and n.2 vibration sensors on guide bearing (x,y axis). (Transducers excluded)	o	o	o	o	o	o	o
166		PMG with dedicated AVR [1]	o	o	o	o	o	o	o
169	113	APFC mounted on board	o	o	o	o	o	o	o
173	113	Three phase sensing with dedicated AVR	o	o	o	o	o	o	o
175	113	N. 3 CT single core on neutral point (only available with 6 leads generators)	o	o	o	o	o	o	o
176	113	N. 3 CT double core on neutral point (only available with 6 leads generators)	o	o	o	o	o	o	o
177	113	N. 3 CT triple core on neutral point (only available with 6 leads generators)	o	o	o	o	o	o	o
179		Voltage transformers for protection	o	o	o	o	o	o	o
180		N-End insulated bearing[2]	o	o	o	o	s	s	s
181		D-End insulated bearing + Earthing brush	o	o	o	o	o	o	o
184		64R - Brush connection to rotor for earth fault detection (w/o prot. device)	o	o	o	o	o	o	o
185		12 diodes rotating rectifier	o	o	o	o	o	o	o
193	113	Digital AVR (UNITROL 1005 Light) mounted on board	o	o	o	o	o	o	o
194	113	Digital AVR (UNITROL 1010 Light) mounted on board	o	o	o	o	o	o	o
195	113	Digital AVR (UNITROL 1020 Basic) mounted on board	o	o	o	o	o	o	o
196	113	Digital AVR (UNITROL 1010 Basic) 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
215		Cable cowling	o	o	o	o	o	o	o
216		Separate neutral point terminal box	o	o	o	o	o	o	o
293	113	UL Generator three phase data	o	o	o	o	o	o	o
919		Painting colour different from standard RAL[3]	o	o	o	o	o	o	o
930		Special painting process (MM ref. F96819)	o	o	o	o	o	o	o

[1] Standard on generators with Vn >6900V

[2] Standard on all ≥ 8 poles generators

[3] No extra price for RAL 9005

o: optional

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	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	Efficiency 4/4 pf = 0,8 125/40 [%]	Inertia B3 Approx. J [Kg m^2]	Weight B3 Approx. [Kg]
4 POLES		50Hz				60Hz					IP 23
MXB-E 225 XA4	12	70,0	64,0	56,0	88,3	88	80	70	89,0	0,71	280
MXB-E 225 XB4	12	80,0	73,0	64,0	88,9	100	92	80	89,8	0,78	296
MXB-E 225 SB4	12	100	92,0	80,0	90,4	125	115	100	91,2	0,92	335
MXB-E 225 MA4	12	120	110	96	91,0	150	137	120	91,8	1,07	377
MXB-E 225 MB4	12	135	124	108	92,0	169	155	135	92,4	1,17	407
MXB-E 225 LA4	12	150	137	120	91,9	188	172	150	92,6	1,25	434
MXB-E 225 LB4	12	165	151	132	92,4	206	189	165	93,1	1,80	471
MXB-E 250 SA4	12	180	165	144	91,8	225	206	180	92,4	1,56	513
MXB-E 250 SB4	12	200	183	160	92,0	250	229	200	92,7	1,64	541
MXB-E 250 MA4	12	230	211	184	92,2	288	263	230	92,9	1,89	599
MXB-E 250 MB4	12	250	229	200	92,8	313	286	250	93,4	2,09	652
MXB-E 250 LA4	12	275	252	220	93,0	344	315	275	93,5	2,56	780
MXB-E 250 LB4	12	300	275	240	93,4	375	344	300	93,9	2,56	783
MJB 315 SB4	12	350	320	280	93,4	425	389	340	94,0	4,25	920
MJB 315 MA4	12	410	376	328	93,7	500	458	400	94,2	4,80	1060
MJB 315 MB4	12	450	412	360	94,0	550	504	440	94,8	5,68	1200
MJB 355 SA4	12	510	467	408	94,0	625	573	500	94,5	7,97	1250
MJB 355 SB4	12	570	522	456	94,6	695	637	556	95,1	9,29	1550
MJB 355 MA4	12	680	623	544	94,7	825	756	660	95,1	11,7	1800
MJB 355 MB4	6	800	733	640	95,0	960	880	768	95,3	13,1	2050
MJB 400 MA4	6	930	852	744	95,2	1175	1077	940	95,7	16,3	2250
MJB 400 MB4	6	1050	962	840	95,3	1320	1210	1055	95,7	17,0	2300
MJB 400 LA4	6	1150	1050	920	95,6	1420	1300	1135	96,0	19,3	2550
MJB 400 LB4	6	1300	1190	1040	95,8	1625	1490	1300	96,3	22,5	2800
MJB 450 MB4	6	1500	1375	1200	95,9	1800	1650	1440	96,3	29,0	3200
MJB 450 LA4	6	1650	1500	1320	96,0	1980	1815	1580	96,3	34,0	3600
MJB 450 LB4	6	1875	1720	1500	96,2	2250	2062	1800	96,4	38,0	4000
MJB 500 SC4	6	2000	1830	1600	96,1	2400	2200	1920	96,5	44,2	4000
MJB 500 MB4	6	2200	2000	1760	96,2	2635	2415	2100	96,5	50,0	4400
MJB 500 MC4	6	2300	2100	1840	96,3	2700	2470	2160	96,2	54,4	4800
MJB 500 LA4	6	2500	2290	2000	96,4	3000	2750	2400	96,7	59,0	5100
MJB 560 MA4	6	2730	2500	2180	96,4	3125	2860	2500	96,5	77,5	6000
MJB 560 LA4	6	3200	2930	2560	96,5	3680	3370	2940	96,6	95,3	6450
MJB 630 MB4(1)	6	3300	3000	2640	96,6	3800	3480	3040	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

TECHNICAL DATA: 4 pole• 380V/415V/440V • 50Hz • 1500rpm 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	415V	440V	380V	415V	440V	380V	415V	440V	380V	415V	440V
4 POLES		50 Hz											IP 23
MXB-E 225 XA4	12	66,5	70,0	63,0	60,9	64,2	57,7	53,2	56,0	50,4	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	89,1	89,7	90,5
MXB-E 225 SB4	12	95,0	100	95,0	87,1	91,7	87,1	76,0	80,0	76,0	90,1	90,6	91,1
MXB-E 225 MA4	12	114	120	108	105	110	99,0	91,2	96,0	86,4	90,8	91,3	91,9
MXB-E 225 MB4	12	128	135	122	117	124	111	102	108	97,2	91,8	92,3	92,8
MXB-E 225 LA4	12	145	150	143	133	138	131	116	120	114	91,6	92,1	92,3
MXB-E 225 LB4	12	155	160	150	142	147	138	124	128	120	92,3	92,6	92,9
MXB-E 250 SA4	12	180	180	162	165	165	149	144	144	130	91,4	91,9	92,1
MXB-E 250 SB4	12	200	192	180	183	176	165	160	154	144	91,6	92,4	92,8
MXB-E 250 MA4	12	230	230	207	211	211	190	184	184	166	91,9	92,3	92,7
MXB-E 250 MB4	12	240	240	220	220	220	202	192	192	176	92,7	93,0	92,9
MXB-E 250 LA4	12	275	264	248	252	242	227	220	211	198	93,0	92,9	92,0
MXB-E 250 LB4	12	300	288	270	275	264	248	240	230	216	93,4	93,3	92,5
MJB 315 SB4	12	350	350	(*)	321	321	(*)	280	280	(*)	93,2	93,4	(*)
MJB 315 MA4	12	410	410	(*)	376	376	(*)	328	328	(*)	93,4	93,6	(*)
MJB 315 MB4	12	450	450	(*)	412	412	(*)	360	360	(*)	93,9	94,1	(*)
MJB 355 SA4	12	490	510	(*)	449	467	(*)	392	408	(*)	93,5	94,1	(*)
MJB 355 SB4	12	570	570	(*)	522	522	(*)	456	456	(*)	94,2	94,7	(*)
MJB 355 MA4	12	680	680	(*)	623	623	(*)	544	544	(*)	94,4	94,8	(*)
MJB 355 MB4	6	800	800	(*)	733	733	(*)	640	640	(*)	94,9	95,1	(*)
MJB 400 MA4	6	930	930	(*)	852	852	(*)	744	744	(*)	94,9	95,2	(*)
MJB 400 MB4	6	1020	1050	(*)	935	962	(*)	816	840	(*)	95,1	95,4	(*)
MJB 400 LA4	6	1150	1150	(*)	1054	1050	(*)	920	920	(*)	95,5	95,7	(*)
MJB 400 LB4	6	1300	1300	(*)	1192	1190	(*)	1040	1040	(*)	95,6	95,9	(*)
MJB 450 MB4	6	1460	1500	(*)	1338	1375	(*)	1170	1200	(*)	95,7	96,0	(*)
MJB 450 LA4	6	1600	1650	(*)	1466	1500	(*)	1280	1320	(*)	95,8	96,1	(*)
MJB 450 LB4	6	1830	1880	(*)	1677	1720	(*)	1464	1500	(*)	96,1	96,2	(*)
MJB 500 SC4	6	1970	2000	(*)	1800	1830	(*)	1576	1600	(*)	96,1	96,2	(*)
MJB 500 MB4	6	2200	2200	(*)	2000	2000	(*)	1760	1760	(*)	96,2	96,2	(*)
MJB 500 MC4	6	2300	2300	(*)	2100	2100	(*)	1800	1840	(*)	96,3	96,3	(*)
MJB 500 LA4	6	2500	2500	(*)	2290	2290	(*)	2000	2000	(*)	96,4	96,5	(*)
MJB 560 MA4	6	2550	2650	(*)	2340	2430	(*)	2040	2120	(*)	96,3	96,4	(*)
MJB 560 LA4	6	3100	3200	(*)	2840	2930	(*)	2480	2560	(*)	96,4	96,5	(*)
MJB 630 MB4(1)	6	3300	3300	(*)	3025	3025	(*)	2640	2640	(*)	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	(*)

(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												Efficiency 4/4 pf = 0,8			
		125/40 ΔT cl. H				105/40 ΔT cl. F				80/40 ΔT cl. B				125/40 [%]			
		380V	416V	440V	460V	380V	416V	440V	460V	380V	416V	440V	460V	380V	416V	440V	460V
4 POLES		60 Hz															IP 23
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	108	115	120	91,7	99,3	105	110	80,0	86,7	91,7	95,8	89,7	90,4	90,7	91,0
MXB-E 225 MA4	12	120	130	138	144	110	119	126	132	96,0	104	110	115	90,5	91,1	91,4	91,6
MXB-E 225 MB4	12	135	146	155	162	124	134	142	148	108	117	124	129	91,5	92,1	92,0	92,2
MXB-E 225 LA4	12	150	163	172	180	138	149	158	165	120	130	138	144	91,5	92,0	92,3	92,4
MXB-E 225 LB4	12	165	179	189	198	151	164	173	181	132	143	151	158	92,1	92,6	92,8	93,0
MXB-E 250 SA4	12	180	195	206	216	165	179	189	198	144	156	165	173	91,5	92,0	92,2	92,4
MXB-E 250 SB4	12	200	217	229	240	183	199	210	220	160	173	183	192	91,5	92,1	92,3	92,6
MXB-E 250 MA4	12	230	249	264	276	211	228	242	253	184	199	211	220	91,8	92,4	92,6	92,8
MXB-E 250 MB4	12	250	271	287	300	229	248	263	275	200	217	229	240	92,6	93,0	93,2	93,3
MXB-E 250 LA4	12	275	298	315	329	252	273	289	302	220	238	252	264	93,2	93,5	93,6	93,6
MXB-E 250 LB4	12	300	325	344	359	275	298	315	329	240	260	275	288	93,5	93,9	94,0	94,0
MJB 315 SB4	12	360	370	400	420	330	339	367	385	288	296	320	336	92,8	93,3	93,5	93,7
MJB 315 MA4	12	420	430	470	490	385	394	431	449	336	344	376	392	93,3	93,7	93,9	94,1
MJB 315 MB4	12	460	480	520	540	422	440	477	495	368	384	416	432	94,1	94,4	94,5	94,7
MJB 355 SA4	12	510	540	570	610	467	495	522	559	408	432	456	488	93,0	93,4	93,7	94,0
MJB 355 SB4	12	600	645	665	685	550	591	610	628	480	516	532	548	93,9	94,4	94,7	94,9
MJB 355 MA4	12	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

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] Continuous duty			Efficiency 4/4	480V / 60Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty			Efficiency 4/4	Inertia B3	Weight B3
		125/40 ΔT cl. H	105/40 ΔT cl. F	80/40 ΔT cl. B	pf = 0,8 125/40 [%]	125/40 ΔT cl. H	105/40 ΔT cl. F	80/40 ΔT cl. B	pf = 0,8 125/40 [%]	Approx. J [Kg m^2]	Approx. [Kg]
6 POLES		**50Hz**				**60Hz**					**IP 23**
MJB 400 SA6	6	400	366	320	92,6	500	458	400	93,0	11,8	1450
MJB 400 SB6	6	450	412	360	92,9	565	518	452	93,4	14,1	1600
MJB 400 SC6	6	500	458	400	93,6	625	573	500	94,0	16,8	1800
MJB 400 MA6	6	620	568	496	94,0	775	710	620	94,4	17,9	2000
MJB 400 MB6	6	700	641	560	94,2	875	802	700	94,6	19,4	2260
MJB 400 LA6	6	800	733	640	94,5	1000	916	800	94,9	20,9	2530
MJB 400 LB6	6	970	889	776	94,7	1215	1113	972	95,1	24,2	2750
MJB 450 MB6	6	1040	953	832	95,4	1300	1190	1040	95,8	44,2	3850
MJB 450 LA6	6	1200	1100	960	95,6	1500	1375	1200	95,8	48,7	4000
MJB 450 LB6	6	1360	1246	1088	95,6	1700	1558	1360	96,1	53,7	4200
MJB 500 SC6	6	1330	1220	1064	94,9	1665	1526	1332	95,6	64,7	3800
MJB 500 MA6	6	1400	1283	1120	95,7	1750	1600	1400	96,4	70,0	4200
MJB 500 MB6	6	1540	1410	1232	95,1	1925	1764	1540	95,8	73,6	4400
MJB 500 MC6	6	1600	1466	1280	95,9	2000	1833	1600	96,1	81,0	5000
MJB 500 LA6	6	1680	1540	1344	96,2	2100	1925	1680	96,3	88,9	5300
MJB 560 SC6	6	1870	1700	1500	95,6	2150	1980	1720	96,1	115	6000
MJB 560 MB6	6	2200	2000	1760	96,0	2640	2420	2112	96,3	125	6700
MJB 560 LC6	6	2500	2300	2000	96,3	3000	2750	2400	96,4	145	7600
MJB 630 MB6	6	2800	2565	2240	96,4	3360	3080	2700	96,5	210	8000
MJB 630 MC6[1]	6	3000	2750	2400	96,0	3600	3300	2900	96,4	210	8500
8 POLES		**50Hz**				**60Hz**					**IP 23**
MJB 400 SA8	6	240	220	192	91,9	300	275	240	92,0	13,5	1450
MJB 400 SB8	6	310	284	248	92,0	400	366	320	92,5	16,2	1600
MJB 400 SC8	6	360	330	288	92,3	450	412	360	92,8	19,1	1800
MJB 400 MA8	6	430	394	344	92,5	540	495	432	93,0	20,6	2000
MJB 400 MB8	6	510	467	408	93,0	640	586	512	93,5	22,4	2260
MJB 400 LA8	6	600	550	480	93,2	750	687	600	93,7	24,1	2530
MJB 400 LB8	6	740	678	592	93,5	925	848	740	94,0	25,4	2750
MJB 500 SA8	6	820	751	656	94,5	1025	939	820	95,1	55,1	3200
MJB 500 SC8	6	1020	935	815	95,0	1275	1170	1020	95,5	74,2	3800
MJB 500 MB8	6	1270	1160	1000	95,1	1590	1457	1272	95,6	82,2	4400
MJB 500 LA8	6	1400	1280	1120	95,7	1680	1540	1340	95,9	114	5600
MJB 560 SC8	6	1480	1350	1185	95,4	1775	1625	1420	95,8	115	6000
MJB 560 MB8	6	1800	1650	1440	95,6	2160	1980	1730	96,0	130	7000
MJB 560 LA8	6	2025	1850	1620	96,0	2400	2200	1920	96,1	155	7000
MJB 630 MC8	6	2200	2000	1760	95,5	2350	2150	1880	96,2	195	8300
MJB 630 LA8	6	2450	2245	1960	96,6	2820	2580	2260	96,8	260	9200

[1] 690V recommended

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

Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty						Efficiency 4/4 pf = 0,8	
		125/40 ΔT cl. H		105/40 ΔT cl. F		80/40 ΔT cl. B		125/40 [%]	
		380V	415V	380V	415V	380V	415V	380V	415V
6 POLES		**50 Hz**							**IP 23**
MJB 400 SA6	6	390	380	357	348	312	304	92,5	92,5
MJB 400 SB6	6	440	430	403	394	352	344	92,8	92,8
MJB 400 SC6	6	490	480	449	440	392	384	93,5	93,5
MJB 400 MA6	6	610	600	559	550	488	480	93,9	93,9
MJB 400 MB6	6	680	670	623	614	544	536	94,1	94,1
MJB 400 LA6	6	780	760	715	697	624	608	94,4	94,4
MJB 400 LB6	6	950	930	871	852	760	744	94,6	94,6
MJB 450 MB6	6	1040	1040	953	953	832	832	95,3	95,5
MJB 450 LA6	6	1200	1200	1100	1100	960	960	95,4	95,7
MJB 450 LB6	6	1360	1360	1247	1247	1088	1088	95,5	95,7
MJB 500 SC6	6	1320	1280	1210	1173	1056	1024	94,8	94,7
MJB 500 MA6	6	1390	1350	1270	1240	1110	1080	95,7	95,7
MJB 500 MB6	6	1520	1480	1390	1360	1220	1180	95,1	95,1
MJB 500 MC6	6	1565	1565	1430	1400	1250	1220	95,8	96,0
MJB 500 LA6	6	1640	1600	1500	1470	1310	1280	96,2	96,2
MJB 560 SC6	6	1777	1870	1630	1710	1420	1500	95,6	95,6
MJB 560 MB6	6	2090	2200	1920	2020	1670	1760	96,0	96,0
MJB 560 LC6	6	2375	2500	2180	2290	1900	2000	96,3	96,3
MJB 630 MB6	6	2660	2800	2440	2570	2130	2240	96,4	96,4
MJB 630 MC6[1]	6	2850	3000	2610	2750	2280	2400	96,0	96,0
8 POLES		**50 Hz**							**IP 23**
MJB 400 SA8	6	240	230	220	211	192	184	91,4	91,4
MJB 400 SB8	6	305	300	280	275	244	240	91,9	91,9
MJB 400 SC8	6	350	350	321	321	280	280	92,2	92,2
MJB 400 MA8	6	420	420	385	385	336	336	92,4	92,4
MJB 400 MB8	6	510	500	467	458	408	400	92,9	92,9
MJB 400 LA8	6	600	590	550	541	480	472	93,1	93,1
MJB 400 LB8	6	740	730	678	669	592	584	93,4	93,4
MJB 500 SA8	6	820	810	752	742	656	648	94,4	94,3
MJB 500 SC8	6	1020	1010	935	926	816	808	94,9	94,8
MJB 500 MB8	6	1270	1300	1164	1192	1016	1040	95,0	94,9
MJB 500 LA8	6	1330	1400	1220	1280	1060	1120	95,6	95,7
MJB 560 SC8	6	1410	1480	1290	1360	1120	1180	95,4	95,4
MJB 560 MB8	6	1710	1800	1570	1650	1370	1440	95,6	95,6
MJB 560 LA8	6	1920	2030	1760	1860	1540	1620	96,0	96,0
MJB 630 MC8	6	2090	2200	1920	2020	1670	1760	95,5	95,5
MJB 630 LA8	6	2330	2450	2130	2250	1860	1960	96,6	96,6

[1] 690V recommended

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

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 [%]		
		416V	440V	460V	416V	440V	460V	416V	440V	460V	416V	440V	460V
6 POLES		**60 Hz**											**IP 23**
MJB 400 SA6	6	456	468	480	418	429	440	365	374	384	92,6	92,8	92,9
MJB 400 SB6	6	513	527	540	470	483	495	410	422	432	93,0	93,2	93,3
MJB 400 SC6	6	570	585	600	522	536	550	456	468	480	93,6	93,8	93,9
MJB 400 MA6	6	707	725	744	648	665	682	566	580	595	94,0	94,2	94,3
MJB 400 MB6	6	798	819	840	731	751	770	638	655	672	94,2	94,4	94,5
MJB 400 LA6	6	912	936	960	836	858	880	730	749	768	94,5	94,7	94,8
MJB 400 LB6	6	1106	1135	1164	1014	1040	1067	885	908	931	94,7	94,9	95,0
MJB 450 MB6	6	1200	1250	1300	1100	1146	1192	960	1000	1040	95,5	95,6	95,7
MJB 450 LA6	6	1360	1400	1460	1247	1283	1338	1088	1120	1168	95,5	95,6	95,7
MJB 450 LB6	6	1550	1640	1700	1421	1503	1558	1240	1312	1360	95,6	95,8	96,0
MJB 500 SC6	6	1516	1556	1596	1389	1426	1463	1213	1245	1277	95,2	95,4	95,5
MJB 500 MA6	6	1520	1640	1680	1390	1500	1540	1210	1300	1340	96,0	96,2	96,3
MJB 500 MB6	6	1670	1765	1850	1531	1618	1696	1336	1412	1480	95,4	95,6	95,7
MJB 500 MC6	6	1825	1870	1900	1673	1714	1741	1460	1496	1520	95,7	95,9	96,0
MJB 500 LA6	6	1915	1965	1995	1755	1801	1828	1532	1572	1596	95,9	96,1	96,2
MJB 560 SC6	6	1960	2000	2060	1796	1833	1888	1568	1600	1650	95,7	95,9	96,0
MJB 560 MB6	6	2400	2470	2530	2200	2260	2320	1920	1980	2020	95,9	96,1	96,2
MJB 560 LC6	6	2730	2800	2880	2500	2570	2640	2180	2240	2300	96,0	96,2	96,3
MJB 630 MB6	6	3050	3140	3220	2800	2880	2950	2440	2510	2580	96,1	96,3	96,4
MJB 630 MC6[1]	6	3280	3370	3450	3010	3090	3160	2620	2700	2760	96,0	96,2	96,3
8 POLES		**60 Hz**											**IP 23**
MJB 400 SA8	6	274	281	288	251	258	264	219	225	230	91,6	91,8	91,9
MJB 400 SB8	6	364	374	384	334	343	352	291	299	307	92,1	92,3	92,4
MJB 400 SC8	6	410	421	432	376	386	396	328	337	346	92,4	92,6	92,7
MJB 400 MA8	6	490	503	516	449	461	473	392	402	413	92,6	92,8	92,9
MJB 400 MB8	6	581	597	612	533	547	561	465	478	490	93,1	93,3	93,4
MJB 400 LA8	6	684	702	720	627	643	660	547	562	576	93,3	93,5	93,6
MJB 400 LB8	6	844	866	888	774	794	814	675	693	710	93,6	93,8	93,9
MJB 500 SA8	6	935	959	984	857	879	902	748	767	787	94,7	94,9	95
MJB 500 SC8	6	1160	1190	1220	1070	1090	1120	930	950	980	95,1	95,3	95,4
MJB 500 MB8	6	1450	1490	1520	1330	1360	1400	1160	1190	1220	95,2	95,4	95,5
MJB 500 LA8	6	1460	1540	1620	1340	1410	1480	1170	1230	1290	95,5	95,7	95,8
MJB 560 SC8	6	1620	1660	1700	1480	1520	1560	1300	1330	1360	95,4	95,6	95,7
MJB 560 MB8	6	1970	2020	2070	1810	1850	1900	1580	1620	1660	95,6	95,8	95,9
MJB 560 LA8	6	2190	2250	2300	2010	2060	2110	1750	1800	1840	95,7	95,9	96,0
MJB 630 MC8	6	2140	2200	2260	1960	2020	2070	1710	1760	1800	95,8	96,0	96,1
MJB 630 LA8	6	2570	2640	2710	2360	2420	2480	2060	2110	2170	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	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	Efficiency 4/4 pf = 0,8 105/40 [%]	Inertia B3 Approx. J [Kg m^2]	Weight B3 Approx. [Kg]
4 POLES		50Hz				50Hz					IP 23
MJH 400 MA4	6	640	600	525	93,4	590	550	480	94,1	12,7	2400
MJH 400 LA4	6	900	840	735	94,3	790	740	650	94,7	17,6	2750
MJH 400 LB4	6	1090	1020	890	94,9	985	920	800	94,6	20,0	3000
MJH 450 MB4	6	1120	1050	915	95,5	1070	1000	870	95,5	29,0	3400
MJH 450 LA4	6	1285	1200	1050	95,6	1195	1120	980	95,6	34,0	3800
MJH 450 LB4	6	1390	1300	1135	95,7	1340	1250	1090	95,7	38,0	4200
MJH 500 MA4	6	1550	1450	1270	95,3	1440	1350	1180	95,1	43,6	4500
MJH 500 MB4	6	1820	1700	1480	95,5	1600	1500	1310	95,3	52,5	4600
MJH 500 LA4	6	1980	1850	1615	95,7	1870	1750	1530	95,5	61,5	5300
MJH 500 LB4	6	2080	1950	1700	95,8	2030	1900	1660	96,1	64,0	5500
MJH 560 MA4	6	2620	2450	2140	96,1	2620	2450	2140	95,7	83,0	6500
MJH 560 LA4	6	2780	2600	2270	96,2	2780	2600	2270	96,0	95,0	6600
MJH 560 LB4	6	3100	2900	2530	96,3	3100	2900	2530	96,2	98,0	6800
MJH 630 MB4	6	3210	3000	2620	96,1	3210	3000	2620	96,0	155	8500
MJH 630 LA4	6	3530	3300	2880	96,2	3530	3300	2880	96,5	146	8700
MJH 630 LB4	6	3850	3600	3140	96,3	3850	3600	3140	96,1	163	8900
MJH 710 MA4	6	4920	4600	4020	96,5	4600	4200	3670	96,5	200	12000
MJH 710 LA4	6	5880	5500	4800	96,6	5880	5500	4800	96,6	250	13500
MJH 710 LB4	6	6200	5800	5060	96,8	6200	5800	5060	96,8	270	15000
MJH 710 LC4	6	6410	6000	5230	96,8	6410	6000	5240	96,8	290	17000

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	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	Efficiency 4/4 pf = 0,8 105/40 [%]	Inertia B3 Approx. J [Kg m^2]	Weight B3 Approx. [Kg]
4 POLES		60Hz				60Hz					IP 23
MJH 400 MA4	6	750	700	610	94,7	710	660	580	94,6	12,7	2400
MJH 400 LA4	6	1030	960	840	95,3	960	900	790	95,2	17,6	2750
MJH 400 LB4	6	1260	1180	1030	95,5	1200	1120	980	95,5	20,0	3000
MJH 450 MB4	6	1260	1180	1030	95,4	1280	1120	980	95,3	29,0	3400
MJH 450 LA4	6	1340	1250	1090	95,6	1280	1200	1050	95,6	34,0	3800
MJH 450 LB4	6	1500	1400	1220	95,7	1420	1330	1160	95,7	38,0	4200
MJH 500 MA4	6	1770	1660	1450	95,7	1600	1500	1310	95,6	43,6	4500
MJH 500 MB4	6	2140	2000	1750	95,9	1760	1650	1440	96,8	52,5	4600
MJH 500 LA4	6	2300	2150	1880	96,1	2030	1900	1660	96,0	61,5	5300
MJH 500 LB4	6	2405	2250	1960	96,2	2350	2200	1920	96,1	64,0	5500
MJH 560 MA4	6	3100	2900	2530	96,1	2940	2750	2400	95,9	83,0	6500
MJH 560 LB4	6	3470	3250	2840	96,2	3370	3150	2750	96,1	98,0	6800
MJH 630 MB4	6	3850	3600	3140	96,5	3740	3500	3060	96,4	155	8500
MJH 630 LB4	6	4170	3900	3400	96,3	4060	3800	3320	96,6	163	8900
MJH 710 MA4	6	4810	4500	3930	96,5	4810	4500	3930	96,4	200	12500
MJH 710 MB4	6	5345	5000	4370	96,7	5350	5000	4370	96,6	227	13500
MJH 710 LA4	6	6200	5800	5060	97,1	6200	5800	5060	96,7	245	13500
MJH 710 LB4	6	7060	6600	5760	97,2	7060	6600	5760	96,9	270	15000
MJH 710 LC4	6	7480	7000	6110	97,3	7480	7000	6110	97,0	290	17000

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

Type	Leads	10000V-11000V / 50Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty			Eff. 4/4 pf = 0,8	15000V / 50Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty			13200V-13800V / 60Hz Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty			Eff. 4/4 pf = 0,8	Inertia B3 Appr.	Weight B3 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	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	125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT cl. F	80/40 Ins. Cl. F ΔT cl. B	105/40 [%]	J [Kg m^2]	[Kg]
4 POLES		**50Hz**							**60Hz**					**IP 23**
MJH 450 LA4	6	1070	1000	870	94,6	-	-	-	1280	1200	1050	94,0	34,0	3800
MJH 500 MA4	6	1390	1300	1130	94,8	-	-	-	1500	1400	1220	94,1	45,0	5000
MJH 500 LA4	6	1600	1500	1310	95,1	-	-	-	1710	1600	1400	94,5	53,7	5300
MJH 560 MA4	6	2300	2150	1880	95,5	1820	1700	1480	2350	2200	1920	95,0	83,0	6700
MJH 560 LA4	6	2890	2700	2360	96,1	1980	1850	1620	2890	2700	2360	95,4	105	7500
MJH 560 LB4	6	(*)	(*)	(*)	(*)	2240	2100	1830	(*)	(*)	(*)	(*)	(*)	(*)
MJH 630 MB4	6	3210	3000	2620	96,0	2780	2600	2270	3370	3150	2750	95,6	115	8200
MJH 630 LA4	6	3530	3300	2880	96,3	3210	3000	2620	3635	3400	2970	95,6	150	9300
MJH 630 LB4	6	3635	3400	2970	96,4	3530	3300	2880	4060	3800	3320	96,0	160	9500
MJH 710 MA4	6	4700	4400	3840	96,5	(*)	(*)	(*)	5130	4800	4190	96,4	215	12500
MJH 710 MB4	6	(*)	(*)	(*)	(*)	4280	4000	3490	(*)	(*)	(*)	(*)	(*)	(*)
MJH 710 LA4	6	5880	5500	4800	96,8	(*)	(*)	(*)	6090	5700	4980	96,5	227	14500
MJH 710 LB4	6	6200	5800	5060	96,8	4810	4500	3930	6410	6000	5240	96,5	270	15500
MJH 710 LC4	6	6410	6000	5240	96,8	(*)	(*)	(*)	6630	6200	5410	96,5	290	17000

- Connection not available

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

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

M.V.

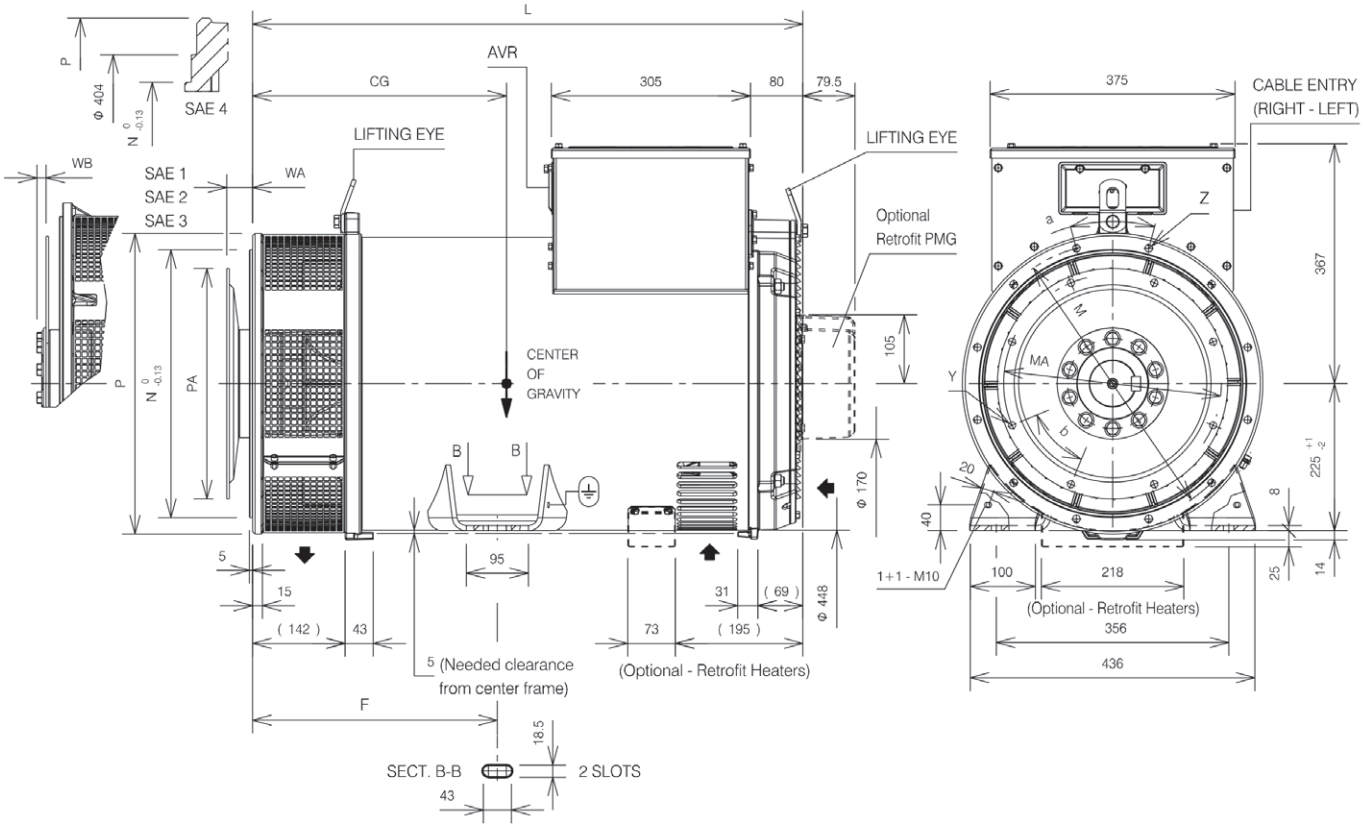
Type	Leads	Power rating [kVA] Temp. rise / Ambient temp. [°C] Continuous duty											
		3000V-3300V / 50Hz			6000V-6600V / 50Hz			4160V / 60Hz			6000V-6600V / 60Hz		
		125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT. cl. F	80/40 Ins. Cl. F ΔT cl. B	125/40 Ins. Cl. H ΔT cl. H	105/40 Ins. Cl. F ΔT. 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**											**IP23**
MJH 560 SC6	6	1730	1620	1410	1600	1500	1310	2030	1900	1660	1800	1680	1470
MJH 560 MB6	6	2085	1950	1700	1920	1800	1570	2350	2200	1920	2140	2000	1750
MJH 560 LA6	6	2300	2150	1880	2140	2000	1750	2405	2250	1960	2190	2050	1790
MJH 630 MA6	6	2405	2250	1960	2245	2100	1830	2460	2300	2010	2300	2150	1880
MJH 630 LA6	6	2670	2500	2180	2460	2300	2010	2780	2600	2270	2510	2350	2050
MJH 630 LB6	6	2890	2700	2360	2670	2500	2180	2890	2700	2360	2670	2500	2180
MJH 710 SC6	6	3690	3450	3010	3690	3450	3010	3740	3500	3060	3580	3350	2925
MJH 710 MA6	6	4545	4250	3710	4380	4100	3580	4600	4300	3750	4380	4100	3580
MJH 710 MB6	6	4970	4650	4060	4810	4500	3930	5020	4700	4100	4810	4500	3930
MJH 710 LA6	6	5185	4850	4230	5020	4700	4100	5240	4900	4280	5020	4700	4100
MJH 710 LB6	6	5505	5150	4500	5345	5000	4365	5560	5200	4540	5345	5000	4365
MJH 800 MB6	6	6520	6100	5325	6520	6100	5325	7270	6800	5940	7160	6700	5850
MJH 800 LA6	6	7910	7400	6460	7910	7400	6460	7910	7400	6460	8020	7500	6550
MJH 800 LB6	6	8550	8000	6980	8550	8000	6980	8550	8000	6980	8550	8000	6980
8 POLES		**50Hz**											**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 MC8	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 M8	6	On Request											
MJH 900 L8	6	On Request											

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					
		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**			**60Hz**		**IP 23**
MJH 560 MB6	6	1600	1500	1310	1820	1700	1480
MJH 560 LA6	6	1710	1600	1400	2030	1900	1660
MJH 630 MB6	6	1820	1700	1480	2085	1950	1700
MJH 630 MC6	6	2140	2000	1750	2300	2150	1880
MJH 710 SC6	6	2780	2600	2270	2940	2750	2400
MJH 710 MA6	6	3310	3100	2710	3370	3150	2750
MJH 710 MB6	6	3740	3500	3060	4010	3750	3270
MJH 710 LA6	6	4490	4200	3670	4540	4250	3710
MJH 710 LB6	6	4810	4500	3930	4920	4600	4020
MJH 800 MB6	6	6410	6000	5240	6735	6300	5500
MJH 800 MC6	6	6950	6500	5675	6950	6500	5675
MJH 800 LA6	6	7700	7200	6290	7700	7200	6290
MJH 800 LB6	6	8285	7750	6770	8285	7750	6770
8 POLES		**50Hz**			**60Hz**		**IP 23**
MJH 630 LA8	6	1600	1500	1310	1680	1575	1375
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	4665	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 225 - single bearing

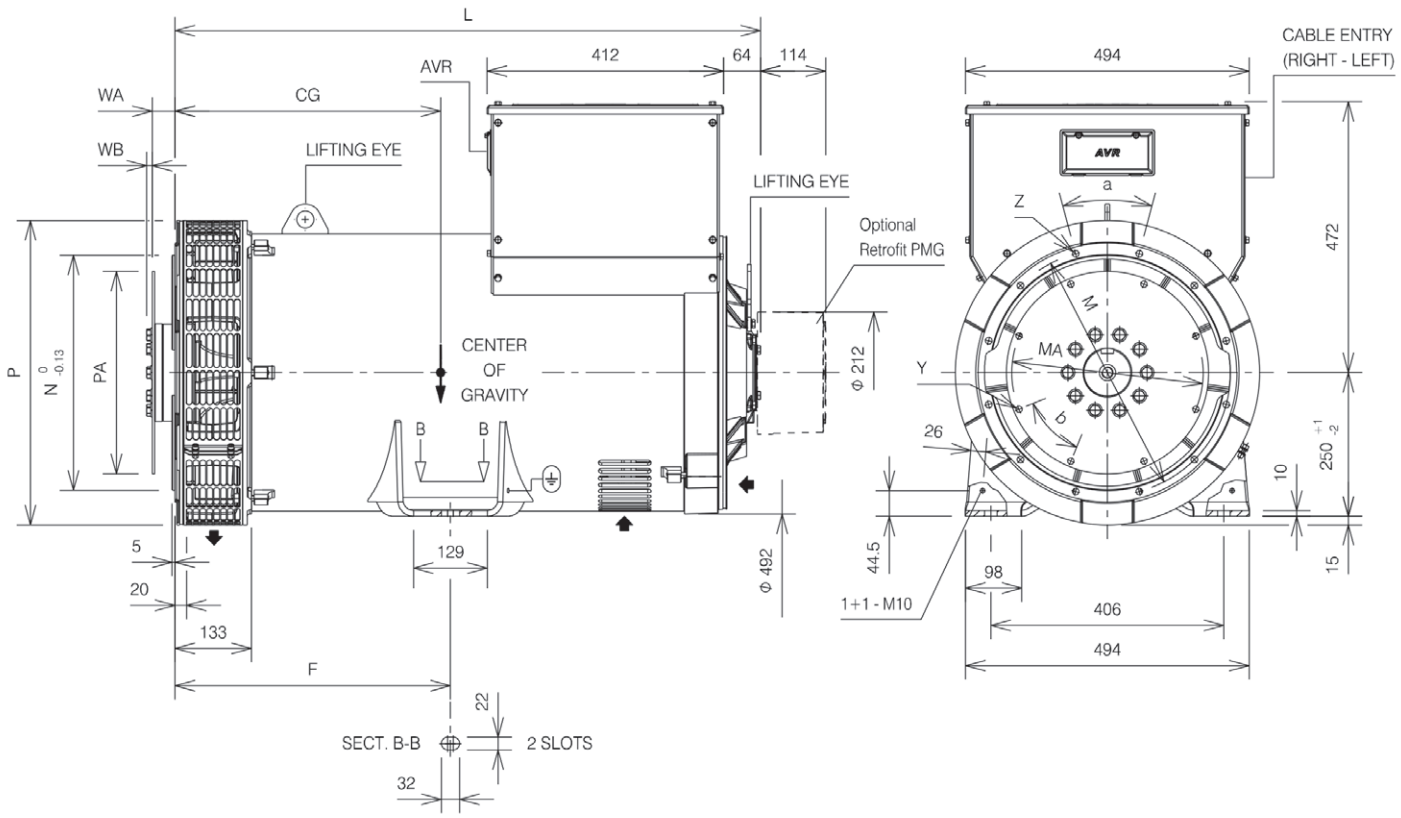


Type	Dimensions [mm]			
MXB-E	L	F	CG	CG
			SAE4-SAE3	SAE2-SAE1
MXB-E 225 XA	708	325	325	312
MXB-E 225 XB			329	317
MXB-E 225 SB			352	348
MXB-E 225 MA	778	375	344	331
MXB-E 225 MB			386	372
MXB-E 225 LA	843		389	377
MXB-E 225 LB			436	423

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°								

DIMENSIONS
MXB-E 250 - single bearing



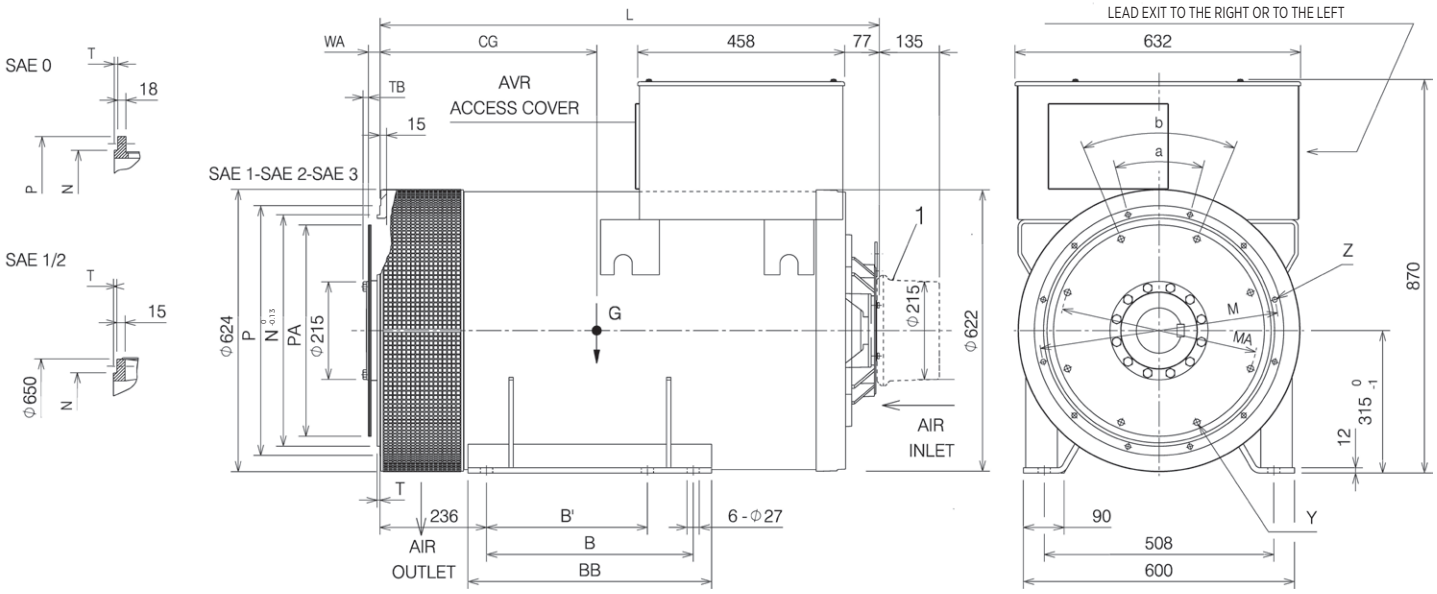
Type	Dimensions [mm]		
MXB-E	**L**	**F**	**CG**
MXB-E 250 SA	800	345	370
MXB-E 250 SB			380
MXB-E 250 MA	910	425	415
MXB-E 250 MB			430
MXB-E 250 LA	1020	480	485
MXB-E 250 LB			

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°								

DIMENSIONS
MJB 315 - single bearing

G= CENTER OF GRAVITY 1)PMG OPTIONAL



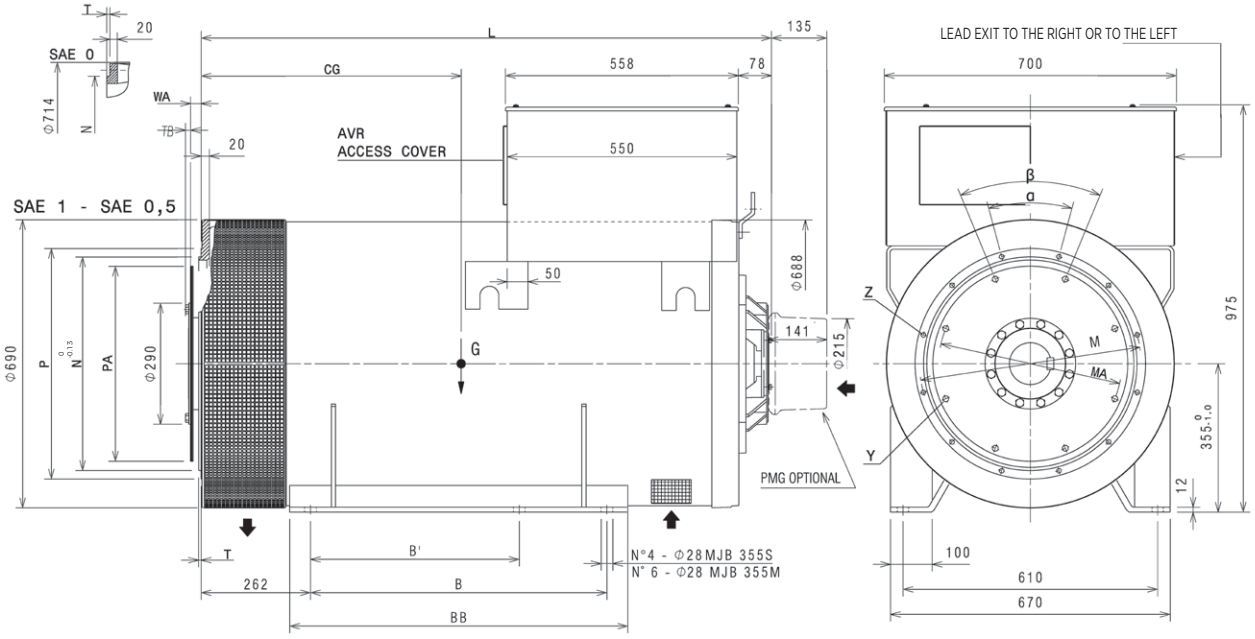
Type	Dimensions [mm]				
MJB 315	**L**	**B'**	**B**	**BB**	**CG**
MJB 315 SA	945	267	368	450	410
MJB 315 SB					440
MJB 315 MA	1105	356	457	540	470
MJB 315 MB					505

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

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

G= CENTER OF GRAVITY



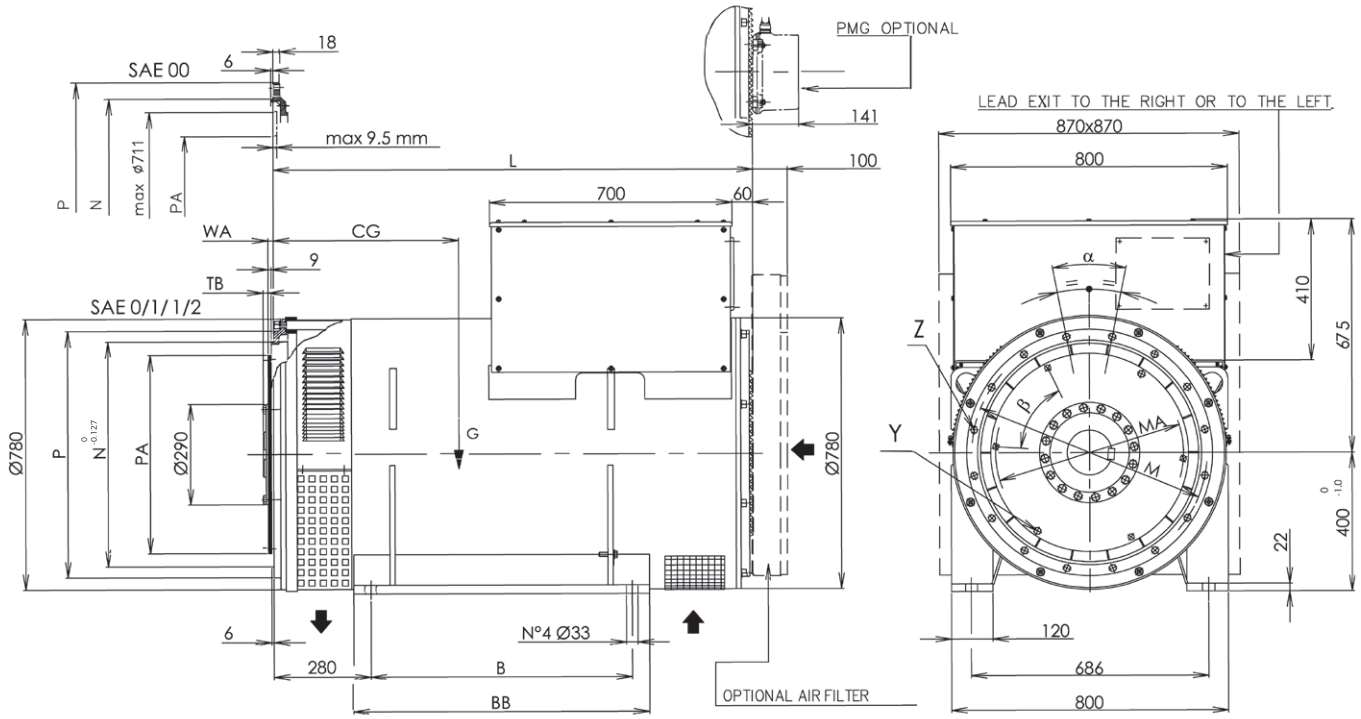
Type	Dimensions [mm]				
MJB 355	**L**	**B'**	**B**	**BB**	**CG**
MJB 355 SA	1136	-	500	600	500
MJB 355 SB					535
MJB 355 MA	1366	500	710	810	600
MJB 355 MB					640

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

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

G= CENTER OF GRAVITY



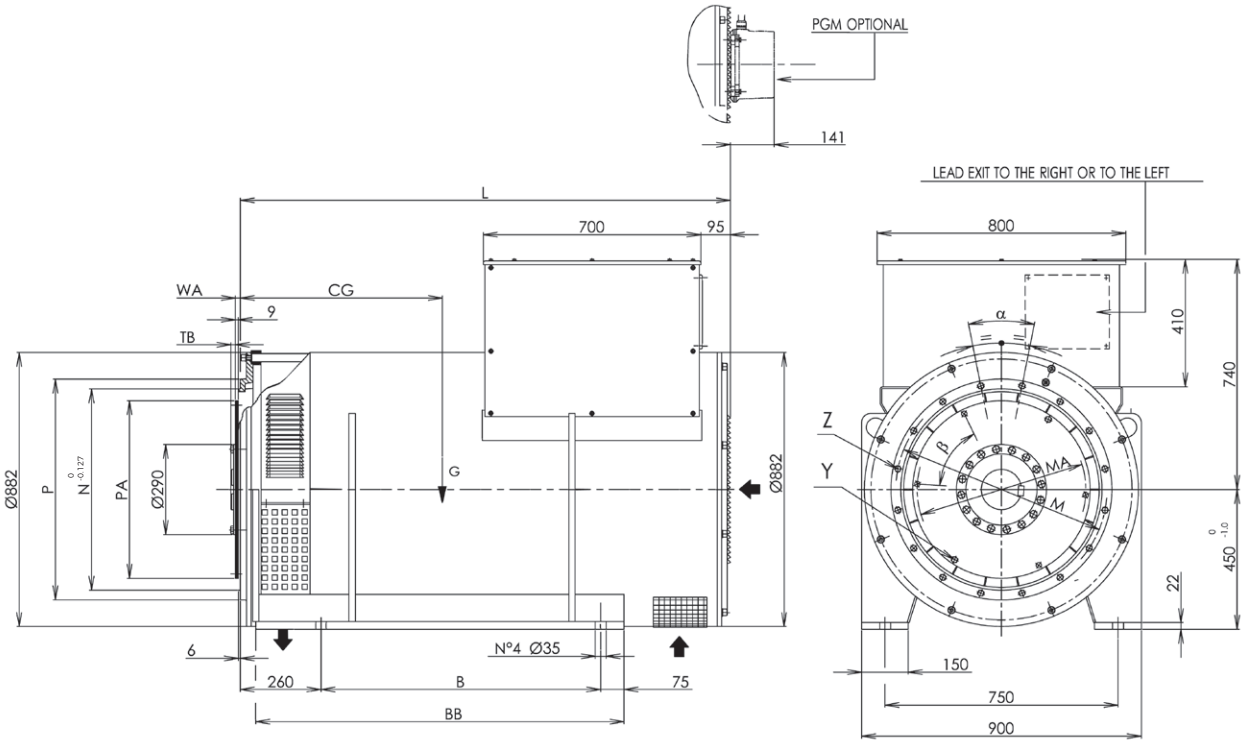
Type	Dimensions [mm]			
MJB 400	**L**	**B**	**BB**	**CG**
MJB 400 SA	1200	560	660	500
MJB 400 SB				530
MJB 400 MA	1400	710	810	580
MJB 400 MB				630
MJB 400 LA	1600	900	1000	680
MJB 400 LB				730

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

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

G= CENTER OF GRAVITY



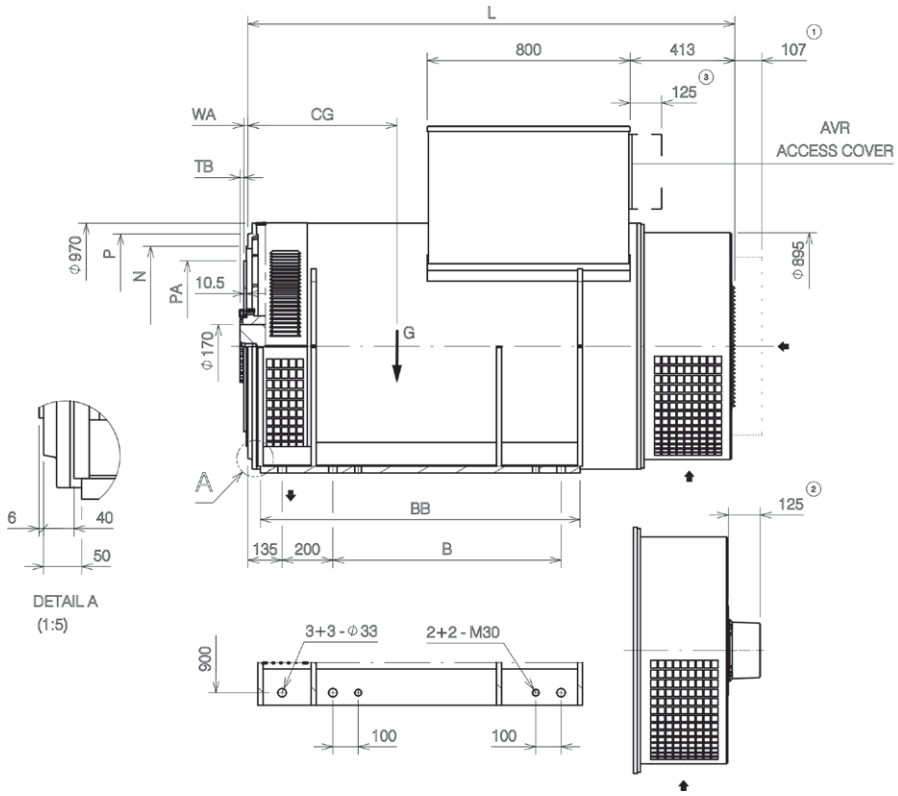
Type	Dimensions [mm]			
MJB 450	**L**	**B**	**BB**	**CG**
MJB 450 MB	1577	900	1185	650
MJB 450 LA	1757	1120	1405	780
MJB 450 LB				830

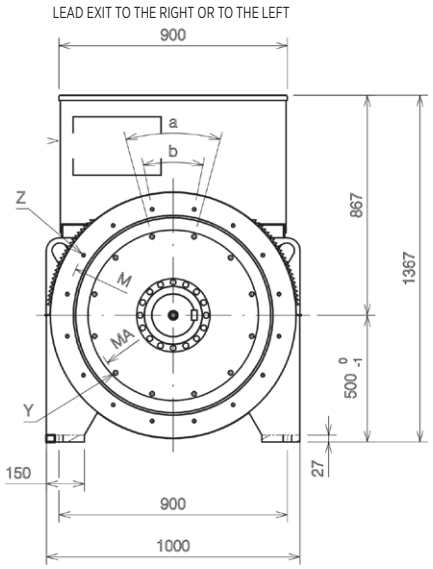
Connections				
COUPLING	**FLANGE**			
SAE J620	**SAE J617**			
	1	1/2	0	00
18			•	•
21				•
• Available				

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°								
1/2	584.20	648	619.10	12	14	30°								
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

G= CENTER OF GRAVITY





1 WITH FILTERS
2 WITH PMG
3 WITH AUXILIARY TERMINAL BOX

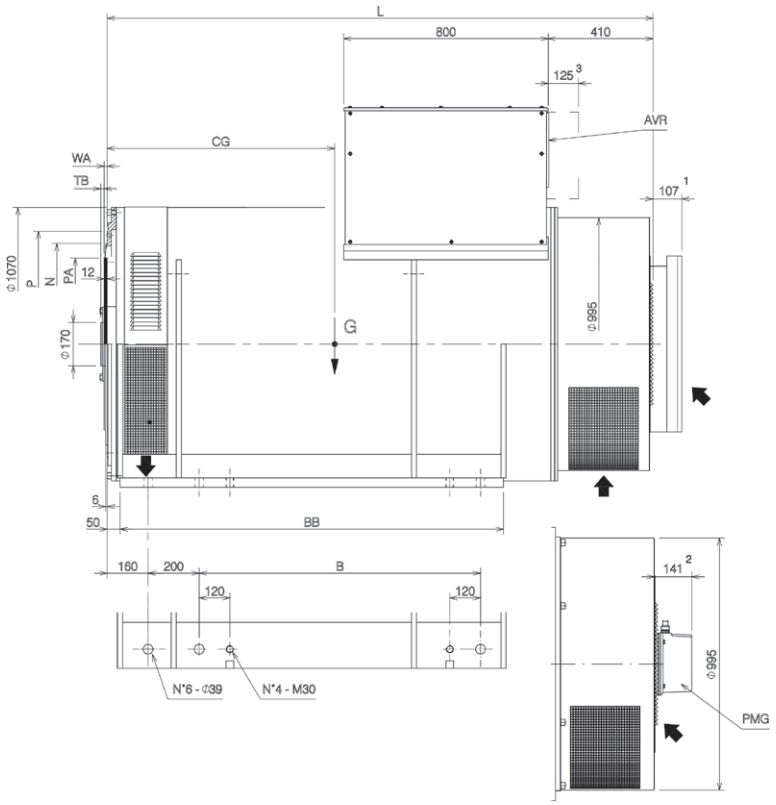
Type	Dimensions [mm]			
MJB 500	**L**	**B**	**BB**	**CG**
MJB 500 SA	1720	710	1070	630
MJB 500 SB				655
MJB 500 SC				720
MJB 500 MA	1920	900	1260	745
MJB 500 MB				770
MJB 500 MC				820
MJB 500 LA	2020	1000	1360	860

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

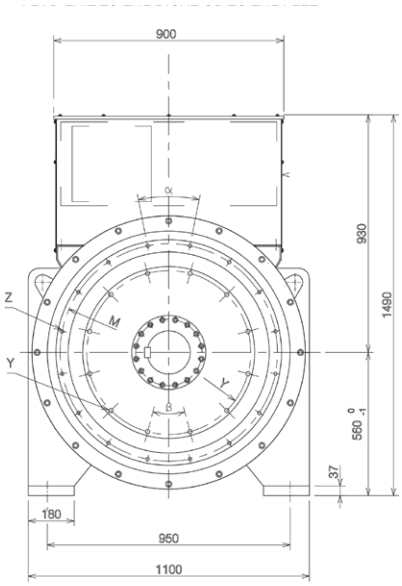
Dimensions [mm]														
FLANGE							**COUPLING**							
SAE J617	**N**	**P**	**M**	**Z**		**a**	**SAE J620**	**PA**	**MA**	**Y**		**b**	**WA**	**TB**
				NR	**Ø**					**NR**	**Ø**			
							14	466.72	438.2	8	14	45°	25.4	15
							16	517.52	489.0	8	14	45°	15.7	15
0	647.70	711	679.50	16	14	22.5°	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

G= CENTER OF GRAVITY



LEAD EXIT TO THE RIGHT OR TO THE LEFT



1 WITH FILTERS
2 WITH PMG
3 WITH AUXILIARY TERMINAL BOX

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		•
• Available		

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

NOTES

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