

ΕΜΒΕΛΕΙΑΟΝΟΜΑΑΠΟΔΟΣΗ
ΒΗΛΜΑVILMA
IMPACTREPUTATIONEFFICIENCY

MEDIUM VOLTAGE MOTORS
Three Phases Squirrel Cage

MEDIUM VOLTAGE SERIES

Three Phases Asynchronous Motors



Vilma Motors supplying AC electric motors for more than 40 years ushering of a new industrial period in Greece. Vilma Motors is a leading motors manufacturer in Greece with a pivot role in Greek Industry.

By the early 80s Vilma started supplying Medium Voltage Series of three phase induction motors for various of applications.



Vilma Motors Medium Voltage Series is manufactured with high quality production standards. It is a robust construction made of high quality steel or cast iron. Carefully designed medium voltage electric motors with modern design techniques enriched with knowledge gained over the years of expertise.



- Power Plants - Mining - Pulp & Paper - Petro - Chemical
- Water supply - Offshore - Sewage Treatment - HVAC

Applications



Stator Core



High quality silicon steel lamination wound with high quality, flat copper wire carefully wound and formed Primary insulated with Mica Tape & finished with Vacuum Process Impregnation

Rotor Core

Squirrel cage is finished by the rotor bars and end rings with the use of quality silver soldering preventing fatigue failure. Copper or aluminum bars are used upon the application. Rotor is balanced dynamically & statically in order rotor to meet the specifications of EN IEC 60034-14 .

Housing

Motor Speed and applied forces, are carefully studied in order the design of the housing and the bearing selection to ensure steady and excellent performance.



General Specifications

Nominal Voltage

3 kV or 6 kV or 10 kV
(or upon request)

Cooling Method

IC 611, IC 411 , IC01

Continuous Duty S1

Duty S1 is for continuous operation at a constant load for time in order motor to reach its thermal equilibrium

Insulation Class F

Insulation class F allows a temperature rise of 105 K with maximum hot spot of 155 °C

Vibration Grade

N grade
R & S grade can be provided
Upon request

Nominal Frequency

50 Hz

Protection Enclosure

IP 55, IP54, IP44, IP23

Insulation Class H can be provided upon request

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STANDARDS (when applicable for high voltage)

TITLE	DIN/EN	IEC
DIRECTION ROTATION AND MARKING OF TERMINALS OF	DIN VDE 0530 / 8	IEC 60034 - 8
RATING PLATE MARKINGS	DIN EN 60034 -1	IEC 60034 - 1
CLASSIFICATION OF TYPES OF ENCLOSURE	DIN EN 60034 -5	IEC 60034 – 5
CLASSIFICATION OF METHODS OF COOLING	DIN EN 60034 -6	IEC 60034 – 6
DUTY AND RATING	DIN EN 60034 -1	IEC 60034 – 1
SERVICE AND OPERATING CONDITIONS	DIN EN 60034 -1	IEC 60034 – 1
LIMITS AND MEASUREMENT OF TEMPERATURE	DIN EN 60034 -1	IEC 60034 – 1
METHODS OF DETERMINE LOSSES AND EFFICIENCY	DIN EN 60034 - 2	IEC 60034 – 2
VIBRATION LIMITS	DIN EN 60034 - 14	IEC 60034 – 14
NOISE LEVEL LIMITS	DIN EN 60034 -9	IEC 60034 – 9
TESTS	DIN EN 60034 -1	IEC 60034 – 1
TOLERANCES	DIN EN 60034 -1	IEC 60034 – 1
IEC STANDARD VOLTAGES	DIN EN 60038	IEC 60038
STARTING PERFORMANCE	DIN EN 60034 -12	IEC 60034 – 12
BUILT – IN THERMAL PROTECTION	DIN EN 60034 -11	IEC 60034 – 11

Tolerances

IEC 34-1, AS 1359-69. Specifies allowable tolerances for efficiency, power factor, speed, locked rotor torque, pull out torque, starting current and moment of inertia.

IEC 34-1 / EN 60034-1 & DIN VDE 0530 specify the following tolerances

Efficiency	Power Factor $\cos \phi$	Slip s	Locked Rotor current I_A	Locked Rotor Torque M_A	Breakdown Torque M_k
- 0,15 (1-) $P_n \leq 50 \text{ kW}$	- $(1 - \cos \phi)/6$ min 0.02 max 0.07	+20% -20%	+20%	+25 % - 15 %	- 10%
- 0,15 (1-) $P_n > 50 \text{ kW}$					

Vibration limits: EN 60034-14 specifies limits of vibration severity
All series of VILMA MOTORS are dynamically balanced with half keys fitted also according to DIN ISO 8821

VIBRATION CLASS	RATED SPEED	LIMITS OF VIBRATION SEVERITY IN mm / sec	
		TOLERANCES OF DEVIATION + / - 10 %	
N	600 ~ 3600	3.5	3.5
R	600 ~ 1800	1.8	2.8
	> 1800 ~ 3600	2.8	2.8
S	600 ~ 3600	1.12	
	> 1800 ~ 3600	1.8	

MOTORS PAINTING

PAINTING (PRIMER)	STANDARD F96833	Paint is formulated with solid epoxy resins modified with vinyl polyamide catalysts
FINAL PAINTING	STANDARD	RAL 5010
FINAL PAINTING	ON REQUEST	ALL RAL colours

- For applications such as: marine, air mixed with salt, environment with acids, basic liquids, anhydride gases WE SUGGEST SPECIAL PAINTING as an example: epoxy vinyl followed by polyacrylic paint
- TROPICALISATION with insulated enamel in the internal of motor is already applied special tropicalisation can be applied on request

BUILD IN PROTECTION

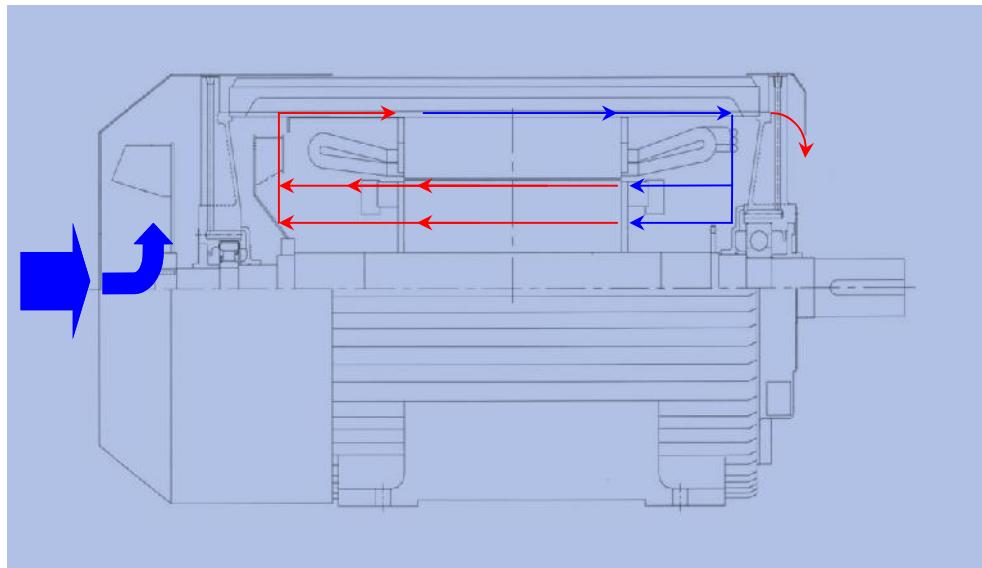
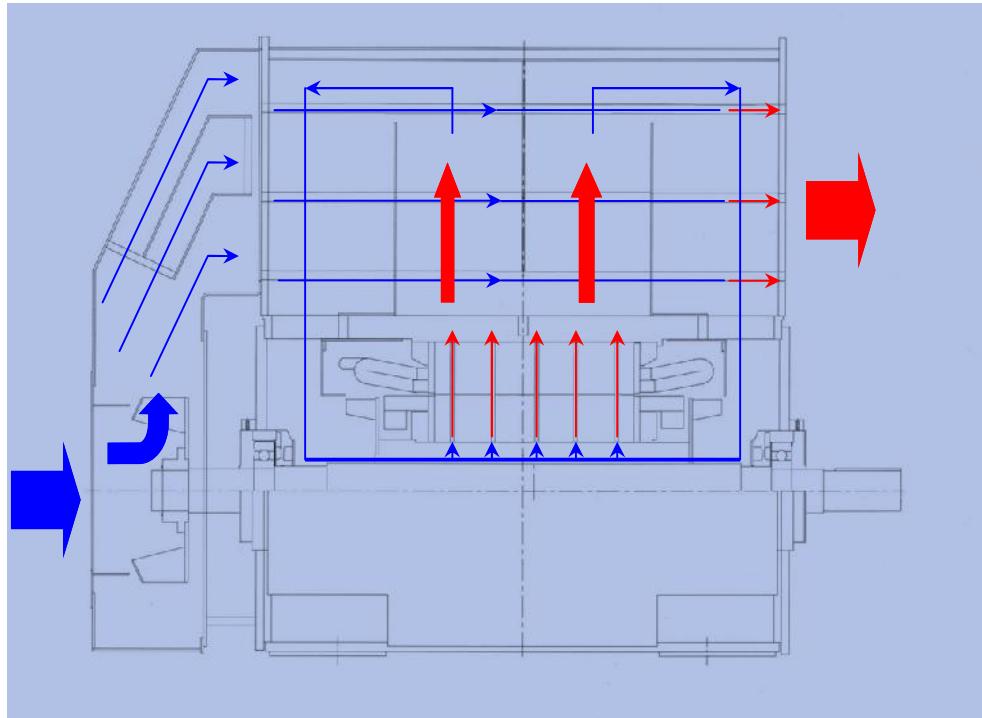
PTC THERMISTOR	Pt 100 for winding Pt 100 for bearing	ANTICONDENSATION HEATER
PTC thermistors are temperature dependent resistors manufactured from barium titanate and should be chosen when a drastic change in resistance is required at a specific temperature or current level. PTCs can operate by temperature sensing, switching at temperature 155°C,	Pt 100 are used by temperature sensing and resistance recording in OHMS, the switching is succeed by control equipment.	Anticondesation heaters (winding D-end) are used to prevent motor after long term storage and power off where the environment has water condensations or when the temperature difference of the environment is continuous.
Motors can be provided with 1~ 230V or 3~ 400 V heaters		

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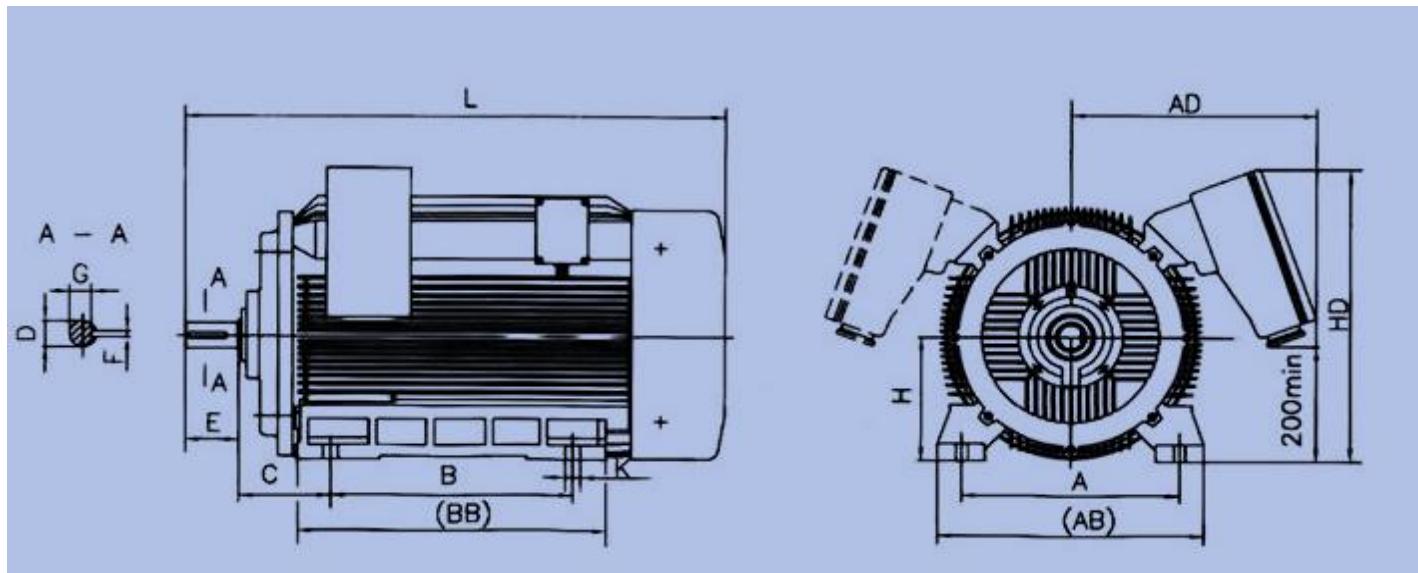


IC 611 (air to air)



IC 411

T.E.F.C. (IC411) CONFIGURATION



FRAME SIZES	POLES	MOUNTING DIMENSIONS & TOLERANCES												OVERALL DIMENSIONS												
		A		B		C		D		E		F		G		H		K		AD	HD	L	BB	AB		
355	2	630	+/- 1.4	900	+/- 1.4	254		75		140	(+/- 0.50)	20		67.5		355	28	0.520	800		1870	800	870			
	4,6									210	(+/- 0.57)	28		90		400	0	-0.052	850	1050	2010	1940				
400	2	710		1000				85		170	(+/- 0.50)	22		76		400	0	-0.052	850	1050	2050	850	1050			
	4,8									210	(+/- 0.57)	28		100		450	0	-0.2	35	0	-1	930	1300	2310	930	1300
450	2	800	+/- 1.75	1120	+/- 1.75	280		95		170	(+/- 0.50)	25		86		450	0	-0.062	930	1300	2310	930	1300			
	4							120		210		32		109		450	0	-0.2	35	0	-1	930	1300	2310	930	1300
	6,8									130	(+/- 0.040) (+/- 0.015)	250		119		450	0	-0.062	930	1300	2310	930	1300			
500	2	900	+/- 2.1	1250	+/- 2.1	C'		110		210	(+/- 0.035) (+/- 0.013)	210	0	-0.052	100		500	0	-0.062	970	1280	2610	970	1280		
	4							130		28	0	-0.052	100		500	0	-0.062	970	1280	2610	970	1280				
	6,8									140		32		119		500	0	-0.062	970	1280	2610	970	1280			
560	2	1100	+/- 2.1	1400	+/- 2.1	C'		130		36	0	-0.3	128	0	-0.3	42	0	-0.620	1030	1380	2900	1030	1380			
	4							140		32	0	-0.3	119	0	-0.2	560	0	-0.620	1030	1380	2900	1030	1380			
	6,8									150		36	0	-0.3	138	0	-0.3	147	0	-0.620	1030	1380	2900	1030	1380	

- Dimension C is of the motors with sliding bearings, the data of which should be negotiated with technical department
- All dimensions are for reference use only and subject to alterations. Before ordering please contact with us

MEDIUM VOLTAGE SERIES

Three Phases Asynchronous Motors



MEDIUM VOLTAGE MOTORS 6.0 KV-50 HZ, TEFC, IP55, 2 POLES PERFORMANCE TABLE OF AMV SERIES

Frames	RATED OUTPUT (Kw)	STATOR CURRENT (A)	SYN. SPEED (R/MIN)	EFF (%)	COS	Tmax/Tn (standard value)	LRT/ Tn (standard value)	LRI/In (standard value)
3551-2	185	22.6	3000	93.9	0.84	1.8	0.7	7.0
3552-2	200	24.4	3000	94.0	0.84	1.8	0.7	7.0
3553-2	220	26.8	3000	94.2	0.84	1.8	0.7	7.0
3554-2	250	30.3	3000	94.4	0.84	1.8	0.7	7.0
3555-2	280	33.1	3000	94.6	0.86	1.8	0.7	7.0
4001-2	315	37.2	3000	94.8	0.86	1.8	0.7	7.0
4002-2	355	41.9	3000	94.9	0.86	1.8	0.7	7.0
4003-2	400	47.1	3000	95.1	0.86	1.8	0.7	7.0
4004-2	450	52.9	3000	95.2	0.86	1.8	0.7	7.0
4501-2	500	58.0	3000	95.3	0.87	1.8	0.7	7.0
4502-2	560	64.9	3000	95.4	0.87	1.8	0.7	7.0
4503-2	630	73.0	3000	95.5	0.87	1.8	0.7	7.0
4504-2	710	82.1	3000	95.7	0.87	1.8	0.7	7.0
5001-2	800	91.5	3000	95.6	0.88	1.8	0.7	7.0
5002-2	900	102.8	3000	95.7	0.88	1.8	0.7	7.0
5003-2	1000	114.0	3000	95.9	0.88	1.8	0.7	7.0
5004-2	1120	127.6	3000	96.0	0.88	1.8	0.7	7.0
5601-2	1250	140.6	3000	96.1	0.89	1.8	0.7	7.0
5602-2	1400	157.2	3000	96.3	0.89	1.8	0.7	7.0
5603-2	1600	179.3	3000	96.5	0.89	1.8	0.7	7.0

- All values are for reference use only and subject to alterations. Before ordering, please contact with us
- At 6.3kV nominal current is reduced by ~5%

MEDIUM VOLTAGE MOTORS 6.0 KV-50 HZ, TEFC, IP55, 4 POLES PERFORMANCE TABLE OF AMV SERIES

TYPE	RATED OUTPUT (Kw)	STATOR CURRENT (A)	SYN. SPEED (R/MIN)	EFF(%)	COS	Tmax/Tn (standard value)	LRT/ Tn (standard value)	LRI/In (standard value)
3551-4	185	22.7	1500	93.7	0.85	1.8	0.9	6.9
3552-4	200	24.4	1500	93.9	0.84	1.8	0.9	6.9
3553-4	220	27	1500	93.7	0.85	1.8	0.9	6.9
3554-4	250	30	1500	93.9	0.85	1.8	0.9	6.9
3555-4	280	33	1500	94.1	0.86	1.8	0.9	6.9
4001-4	315	37	1500	94.2	0.86	1.8	0.9	6.5
4002-4	355	42	1500	94.3	0.87	1.8	0.8	6.5
4003-4	400	47	1500	94.5	0.87	1.8	0.8	6.5
4004-4	450	53	1500	94.7	0.87	1.8	0.8	6.5
4501-4	500	58	1500	94.8	0.87	1.8	0.8	6.5
4502-4	560	65	1500	95.0	0.87	1.8	0.8	6.5
4503-4	630	73	1500	95.1	0.87	1.8	0.8	6.5
4504-4	710	82	1500	95.2	0.87	1.8	0.8	6.5
5001-4	800	92	1500	95.4	0.88	1.8	0.8	6.5
5002-4	900	103	1500	95.5	0.88	1.8	0.8	6.5
5003-4	1000	114	1500	95.6	0.88	1.8	0.8	6.5
5004-4	1120	127	1500	95.7	0.89	1.8	0.8	6.5
5601-4	1250	141	1500	95.8	0.89	1.8	0.7	6.5
5602-4	1400	158	1500	95.9	0.89	1.8	0.7	6.5
5603-4	1600	180	1500	96.0	0.89	1.8	0.7	6.5

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MEDIUM VOLTAGE MOTORS 6.0 kV-50 Hz, TEFC, IP55, 6 POLES PERFORMANCE TABLE OF AMV SERIES

TYPE	RATED OUTPUT (kW)	STATOR CURRENT (A)	SYN. SPEED (R/MIN)	EFF(%)	COS	Tmax/Tn (standard value)	LRT/ Tn (standard value)	LRI/In (standard value)
3553-6	160	20.6	1000	93.4	0.80	1.8	0.9	6.1
3554-6	185	23.8	1000	93.5	0.80	1.8	0.9	6.1
3555-6	200	25.7	1000	93.6	0.80	1.8	0.9	6.1
4001-6	220	27.5	1000	93.8	0.84	1.8	0.9	6.1
4002-6	250	31.0	1000	93.5	0.82	1.8	0.9	6.1
4003-6	280	35.0	1000	93.8	0.83	1.8	0.9	6.1
4004-6	315	39.0	1000	94.0	0.83	1.8	0.9	6.1
4501-6	355	44.0	1000	94.2	0.83	1.8	0.9	6.1
4502-6	400	49.0	1000	94.4	0.83	1.8	0.9	6.1
4503-6	450	55.2	1000	94.6	0.83	1.8	0.9	6.1
4504-6	500	61.2	1000	94.8	0.83	1.8	0.9	6.1
5001-6	560	68.5	1000	94.9	0.83	1.8	0.9	6.1
5002-6	630	77.0	1000	95.0	0.83	1.8	0.9	6.5
5003-6	710	86.6	1000	95.2	0.83	1.8	0.9	6.5
5004-6	800	97.4	1000	95.3	0.83	1.8	0.9	6.5
5601-6	900	108.2	1000	95.4	0.84	1.8	0.9	6.5
5602-6	1000	120.1	1000	95.5	0.84	1.8	0.9	6.5
5603-6	1120	134.3	1000	95.6	0.84	1.8	0.9	6.5
5604-6	1250	149.8	1000	95.7	0.84	1.8	0.9	6.5

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MEDIUM VOLTAGE MOTORS 6.0 kV-50 Hz, TEFC, IP55, 8 POLES PERFORMANCE TABLE OF AMV SERIES

TYPE	RATED OUTPUT(kW)	STATOR CURRENT(A)	SYN. SPEED(R/MIN)	EFF(%)	POWER FACTOR COS	MAX TORQUE RATED TORQUE	LOCKED TORQUE RATED TORQUE	LOCKED CURRENT RATED CURRENT
4001-8	160	21.7	750	93.2	0.76	2.0	0.8	5.5
4002-8	185	25.1	750	93.3	0.76	2.0	0.8	5.5
4003-8	200	26.7	750	93.5	0.77	2.0	0.8	5.5
4004-8	220	29.3	750	93.7	0.77	2.0	0.8	5.5
4501-8	250	32.8	750	93.9	0.78	2.0	0.8	5.5
4502-8	280	36.7	750	94.1	0.78	2.0	0.8	5.5
4503-8	315	41.3	750	94.2	0.78	2.0	0.8	5.5
4504-8	355	46.4	750	94.4	0.78	2.0	0.8	5.5
5001-8	400	51.7	750	94.5	0.79	2.0	0.8	5.5
5002-8	450	57.9	750	94.6	0.79	2.0	0.8	5.5
5003-8	500	63.4	750	94.8	0.80	2.0	0.8	5.5
5004-8	560	71.0	750	94.9	0.80	2.0	0.8	5.5
5601-8	630	78.6	750	95.1	0.81	2.0	0.7	5.5
5602-8	710	88.4	750	95.2	0.81	2.0	0.7	5.5
5603-8	800	99.6	750	95.3	0.81	2.0	0.7	5.5
5604-8	900	11.8	750	95.6	0.81	2.0	0.7	5.5

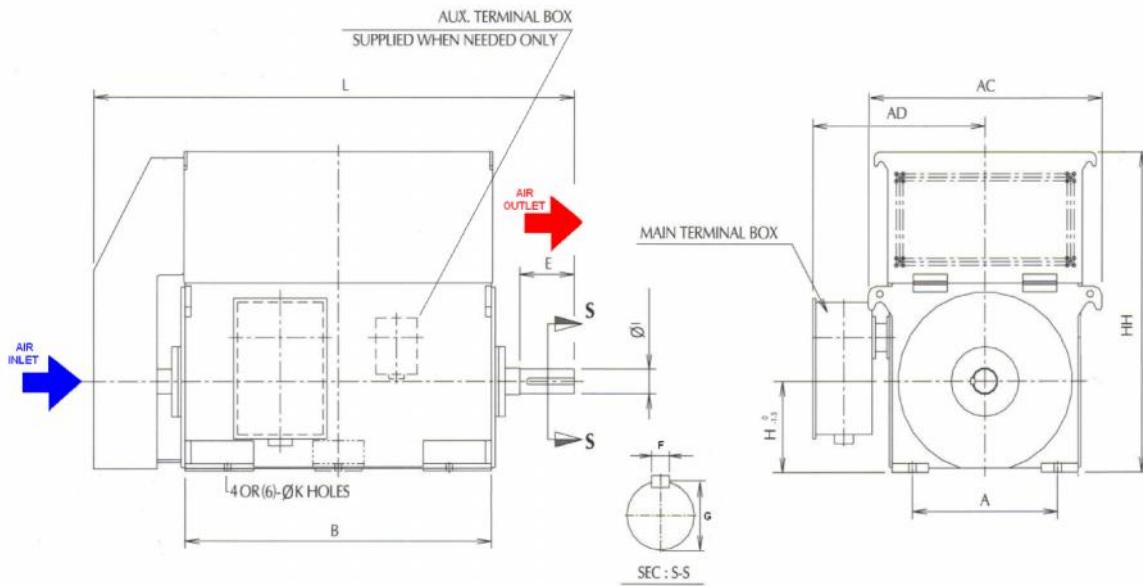
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MEDIUM VOLTAGE SERIES

Three Phases Asynchronous Motors



IC611 CONFIGURATION



MEDIUM VOLTAGE MOTORS 6.0 kV-50 Hz, IC611,IP55, 2 POLES PERFORMANCE TABLE OF KMV SERIES

Frames	RATED OUTPUT (Kw)	STATOR CURRENT (A)	SYN. SPEED (R/MIN)	EFF (%)	COS	Tmax/Tn (standard value)	LRT/ Tn (standard value)	LRI/In (standard value)
3551-2	220	26.9	3000	92.5	0.85	1.8	0.6	7.0
3552-2	250	30.6	3000	92.6	0.85	1.8	0.6	7.0
3553-2	280	34.4	3000	92.8	0.85	1.8	0.6	7.0
3554-2	315	38.3	3000	93.1	0.85	1.8	0.6	7.0
4003-2	355	42.5	3000	93.4	0.86	1.8	0.6	7.0
4004-2	400	47.8	3000	93.7	0.86	1.8	0.6	7.0
4005-2	450	53.6	3000	94.0	0.86	1.8	0.6	7.0
4006-2	500	59.4	3000	94.2	0.86	1.8	0.6	7.0
4501-2	560	66.4	3000	94.4	0.86	1.8	0.6	7.0
4502-2	630	73.7	3000	94.6	0.87	1.8	0.6	7.0
4503-2	710	82.9	3000	94.7	0.87	1.8	0.6	7.0
4504-2	800	92.3	3000	94.8	0.87	1.8	0.6	7.0
5001-2	900	104.8	3000	95.0	0.87	1.8	0.6	7.0
5002-2	1000	116.3	3000	95.1	0.87	1.8	0.6	7.0
5003-2	1120	130.1	3000	95.2	0.87	1.8	0.6	7.0
5004-2	1250	145.1	3000	95.3	0.87	1.8	0.6	7.0
5601-2	1400	160.5	3000	95.4	0.88	1.8	0.6	7.0
5602-2	1600	183.2	3000	95.5	0.88	1.8	0.6	7.0

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MEDIUM VOLTAGE MOTORS 6.0 kV-50 Hz, IC611,IP55, 4 POLES PERFORMANCE TABLE OF KMV SERIES

TYPE	RATED OUTPUT (Kw)	STATOR CURRENT (A)	SYN. SPEED (R/MIN)	EFF(%)	COS	Tmax/Tn (standard value)	LRT/ Tn (standard value)	LRI/In (standard value)
3551-4	185	22.6	1500	92.8	0.85	1.8	0.7	6.5
3552-4	200	24.4	1500	92.9	0.85	1.8	0.7	6.5
3553-4	220	26.8	1500	93.0	0.85	1.8	0.7	6.5
3554-4	250	30.4	1500	93.1	0.85	1.8	0.7	6.5
4002-4	280	33.6	1500	93.2	0.86	1.8	0.7	6.5
4003-4	315	37.8	1500	93.3	0.86	1.8	0.7	6.5
4004-4	355	42.4	1500	93.5	0.86	1.8	0.7	6.5
4005-4	400	47.8	1500	93.7	0.86	1.8	0.7	6.5
4006-4	450	53.6	1500	93.9	0.86	1.8	0.7	6.5
4501-4	500	59.5	1500	94.0	0.86	1.8	0.7	6.5
4502-4	560	66.5	1500	94.2	0.86	1.8	0.7	6.5
4503-4	630	74.5	1500	94.4	0.86	1.8	0.7	6.5
4504-4	710	83.9	1500	94.6	0.87	1.8	0.7	6.5
5001-4	800	93.3	1500	94.8	0.87	1.8	0.7	6.5
5002-4	900	104.9	1500	94.9	0.87	1.8	0.7	6.5
5003-4	1000	116.4	1500	95.0	0.87	1.8	0.7	6.5
5004-4	1120	130.3	1500	95.1	0.87	1.8	0.7	6.5
5601-4	1250	143.6	1500	95.2	0.88	1.8	0.6	6.5
5602-4	1400	160.6	1500	95.3	0.88	1.8	0.6	6.5
5603-4	1600	183.4	1500	95.4	0.88	1.8	0.6	6.5

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MEDIUM VOLTAGE SERIES

Three Phases Asynchronous Motors



MEDIUM VOLTAGE MOTORS 6.0 kV-50 Hz, IC611, IP55, 6 POLES PERFORMANCE TABLE OF KMV SERIES

TYPE	RATED OUTPUT (kW)	STATOR CURRENT (A)	SYN. SPEED (R/MIN)	EFF(%)	COS	Tmax/Tn (standard value)	LRT/ Tn (standard value)	LRI/In (standard value)
4001-6	185	23.5	1000	92.4	0.82	1.8	0.7	6.0
4002-6	200	25.3	1000	92.6	0.82	1.8	0.7	6.0
4003-6	220	27.8	1000	92.8	0.82	1.8	0.7	6.0
4004-6	250	31.5	1000	93.0	0.82	1.8	0.7	6.0
4005-6	280	35.2	1000	93.3	0.82	1.8	0.7	6.0
4006-6	315	39.5	1000	93.5	0.82	1.8	0.7	6.0
4501-6	355	43.9	1000	93.7	0.83	1.8	0.7	6.0
4502-6	400	49.4	1000	93.8	0.83	1.8	0.7	6.0
4503-6	450	54.7	1000	94.3	0.84	1.8	0.7	6.0
4504-6	500	59.9	1000	94.5	0.85	1.8	0.7	6.0
5001-6	560	66.9	1000	94.7	0.85	1.8	0.7	6.0
5002-6	630	75.2	1000	94.8	0.85	1.8	0.7	6.0
5003-6	710	84.6	1000	95.0	0.85	1.8	0.7	6.0
5004-6	800	95.3	1000	95.1	0.85	1.8	0.7	6.0
5601-6	900	107.0	1000	95.2	0.85	1.8	0.7	6.0
5602-6	1000	119.3	1000	95.3	0.85	1.8	0.7	6.0
5603-6	1120	133.0	1000	95.4	0.85	1.8	0.7	6.5
6301-6	1250	149.0	1000	95.4	0.85	1.8	0.7	6.5
6302-6	1400	166.1	1000	95.5	0.85	2.0	0.8	6.5
6303-6	1600	189.8	1000	95.5	0.85	2.0	0.8	6.5

- All values are for reference use only and subject to alterations. Before ordering, please contact with us
- At 6.3kV nominal current is reduced by ~5%

MEDIUM VOLTAGE MOTORS 6.0 kV-50 Hz, IC611, IP55, 8 POLES PERFORMANCE TABLE OF KMV SERIES

TYPE	RATED OUTPUT(kW)	STATOR CURRENT(A)	SYN.SPEED (R/MIN)	EFF(%)	COS	Tmax/Tn (standard value)	LRT/ Tn (standard value)	LRI/In (standard value)
4004-8	185	24.7	750	92.5	0.78	1.8	0.8	5.5
4005-8	200	26.6	750	92.7	0.78	1.8	0.8	5.5
4006-8	220	29.2	750	92.9	0.78	1.8	0.8	5.5
4501-8	250	32.7	750	93.0	0.79	1.8	0.8	5.5
4502-8	280	36.6	750	93.2	0.79	1.8	0.8	5.5
4503-8	315	41.1	750	93.4	0.79	1.8	0.8	5.5
4504-8	355	46.2	750	93.5	0.79	1.8	0.8	5.5
5001-8	400	51.3	750	93.7	0.80	1.8	0.8	5.5
5002-8	450	57.7	750	93.8	0.80	1.8	0.8	5.5
5003-8	500	63.8	750	94.2	0.80	1.8	0.8	5.5
5004-8	560	71.4	750	94.4	0.80	1.8	0.8	5.5
5601-8	630	78.2	750	94.5	0.82	1.8	0.7	6.0
5602-8	710	88.1	750	94.6	0.82	1.8	0.7	6.0
5603-8	800	99.1	750	94.7	0.82	1.8	0.7	6.0
6301-8	900	108.7	750	94.8	0.83	1.8	0.7	6.0
6302-8	1000	122.2	750	95.0	0.83	2.0	0.8	6.5
6303-8	1120	136.8	750	95.0	0.83	2.0	0.8	6.5
6304-8	1250	152.5	750	95.1	0.83	2.0	0.8	6.5
7101-8	1400	168.6	750	95.2	0.84	2.0	0.8	6.5
7102-8	1600	190.3	750	95.3	0.85	2.0	0.8	6.5

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VILMA MOTORS

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MEDIUM VOLTAGE SERIES
Three Phase Squirrel Cage Induction Motors
IEC Medium Voltage Asynchronous

