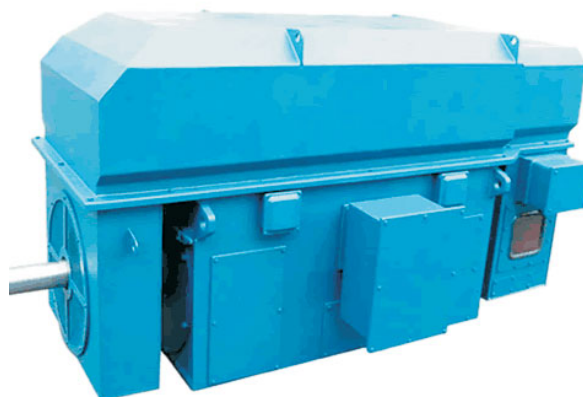


ARKK SERIES  
HIGH-VOLTAGE WOUND-ROTOR  
THREE-PHASE INDUCTION MOTORS

## GERENAL DESCRIPTION



Series ARKK High-Voltage Wound-rotor Three-phase Induction Motors (frame size 355~630) are the newest products, being of the 1990' s advanced technique levels, developed and famufctured by our company.

These series motors can be used to drive various commonly used machines, such as compressors, water pumps, crushers, cutting lathes, conveyors, air-blowers, coal-grinders, rolling mills, and belt conveyers etc. With the material chosen exquisitely and the products excellent workmanship, these series motors are engineered with many remakble features, such as high torque index, low noise, small vibration, high reliability, easy operation, mounting and maintenance etc.

For these series motor, the output rating, mounting dimensi ons and electric properties conform to China Industry Standard JB/T7594 Series AR High-Voltage Wound-Rotor Three-Phase Induction Motors Specifications, and specifications specified in other relative standards and IEC Standard 72— 2.

For these series motors, the cooling form is IC01, IC81W and IC611 according to China National Standard GB1993 and IEC Standard 34— 6 Cooling Form of Motors, and the mouting arrangement is horizontal foot-mounted (IMB3), conforming to GB997 and IEC34— 7 Code of Motor Construction and Mounting Arrangement.

For the other requirements, consult with our company further.

## CONSTRUCTIONAL FEATURES

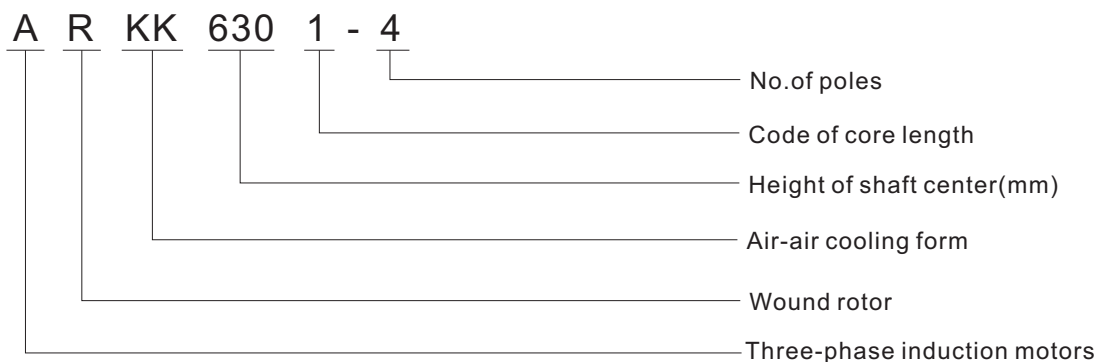
These series motors adopt international fashionable box construction. Frames are welded with sheet steel, being of the merits of lightweight and well rigidity. Both stator and rotor windings are Class F insulation. On the ends of them, the fixing and binding measures are supplied reliably. They are steated with vacuum-pressure impregnate solvenless varnish processe (VPI). These processes enable the motors to possess excellent insulation property, high mechanical strength, and high moisture-resistant ability.

In accordance with the motor output and speed, two kinds of bearings can be equipped, one is rolling bearings and the other is friction bearings. The protection degree is IP23 and IP44 for the basic types and IP54 for the terminal boxes. The terminal box is generally located on the right side of the motors (viewing from DE).

For the basic designed type motors, the collecting electric rings are generally located at the outside of the bearings with the protection degree IP23. For other protection degree or the collecting electric rings locating at the inside of the bearings, please state specially when ordering.

## TYPE DESIGNATION

The explanation of type designation of motors is as follows:



## TECHNICAL DATA

Series ARKK High-Voltage Wound-rotor Three-phase Induction Motors (frame size 355~630)

Table 1-1

Type	Output (kW)	Current (A)	Speed (r/min)	Efficiency %	Powerfactor (cos $\phi$ )	Pull-out torque/Rated torque Mmax/Mn
ARKK3551-4	185	23.3	1500	92.0	0.83	1.8
ARKK3552-4	200	25.1	1500	92.2	0.83	1.8
ARRK3553-4	220	27.6	1500	92.4	0.83	1.8
ARKK4001-4	250	30.9	1500	92.7	0.84	1.8
ARKK4002-4	280	34.6	1500	92.8	0.84	1.8
ARKK4003-4	315	38.8	1500	92.9	0.84	1.8
ARKK4004-4	355	43.7	1500	93.0	0.84	1.8
ARKK4005-4	400	49.2	1500	93.2	0.84	1.8
ARKK4501-4	450	54.5	1500	93.4	0.85	1.8
ARKK4502-4	500	60.5	1500	93.6	0.85	1.8
ARKK4503-4	560	67.5	1500	93.9	0.85	1.8
ARKK4504-4	630	75.7	1500	94.2	0.85	1.8
ARKK5001-4	710	84.2	1500	94.3	0.86	1.8
ARKK5002-4	800	94.8	1500	94.4	0.86	1.8
ARKK5003-4	900	106.6	1500	94.5	0.86	1.8
ARKK5004-4	1000	118.3	1500	94.6	0.86	1.8
ARKK5602-4	1120	130.8	1500	94.7	0.87	1.8
ARKK5603-4	1250	145.8	1500	94.8	0.87	1.8
ARKK5604-4	1400	163.2	1500	94.9	0.87	1.8
ARKK6301-4	1600	186.3	1500	95.0	0.87	1.8
ARKK6302-4	1800	209.4	1500	95.1	0.87	1.8
ARKK6303-4	2000	232.4	1500	95.2	0.87	1.8
ARKK4001-6	185	23.6	1000	91.9	0.82	1.8
ARKK4002-6	200	25.5	1000	92.1	0.82	1.8
ARKK4003-6	220	28.0	1000	92.3	0.82	1.8
ARKK4004-6	250	31.7	1000	92.5	0.82	1.8
ARKK4005-6	280	35.5	1000	92.6	0.82	1.8
ARKK4501-6	315	39.4	1000	92.8	0.83	1.8
ARKK4502-6	355	44.3	1000	93.0	0.83	1.8
ARKK4503-6	400	49.7	1000	93.3	0.83	1.8
ARKK4504-6	450	55.9	1000	93.4	0.83	1.8
ARKK5001-6	500	61.2	1000	93.6	0.84	1.8
ARKK5002-6	560	68.4	1000	93.8	0.84	1.8
ARKK5003-6	630	76.7	1000	94.1	0.84	1.8

## TECHNICAL DATA

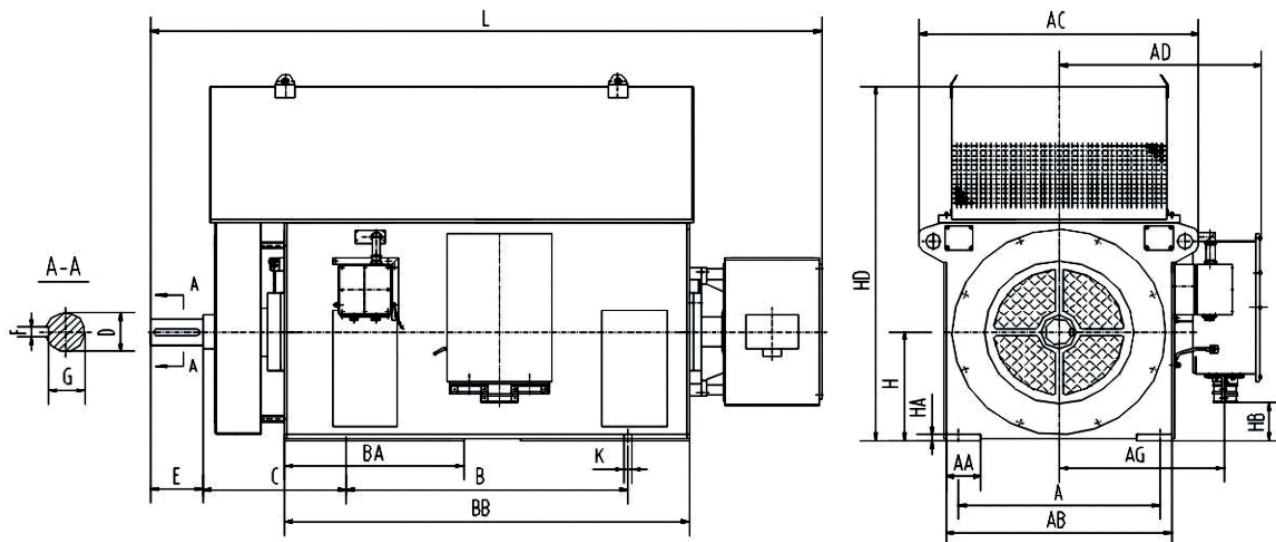
Series ARKK High-Voltage Wound-rotor Three-phase Induction Motors (frame size 355~630)

Table 1-2

Type	Output (kW)	Current (A)	Speed (r/min)	Efficiency %	Powerfactor (cos $\phi$ )	Pull-out torque/Rated torque Mmax/Mn
ARKK5004-6	710	86.3	1000	94.3	0.84	1.8
ARKK5602-6	800	95.8	1000	94.5	0.85	1.8
ARKK5603-6	900	107.7	1000	94.6	0.85	1.8
ARKK5604-6	1000	119.4	1000	94.8	0.85	1.8
ARKK6302-6	1120	133.6	1000	94.9	0.85	1.8
ARKK6303-6	1250	149.0	1000	95.0	0.85	1.8
ARKK6304-6	1400	166.7	1000	95.1	0.85	1.8
ARKK4004-8	185	24.9	750	91.8	0.78	1.8
ARKK4005-8	200	26.8	750	92.0	0.78	1.8
ARKK4501-8	220	29.1	750	92.2	0.79	1.8
ARKK4502-8	250	33.0	750	92.3	0.79	1.8
ARKK4503-8	280	36.9	750	92.5	0.79	1.8
ARKK4504-8	315	41.4	750	92.6	0.79	1.8
ARKK5001-8	355	46.1	750	92.7	0.80	1.8
ARKK5002-8	400	51.7	750	93.0	0.80	1.8
ARKK5003-8	450	58.1	750	93.1	0.80	1.8
ARKK5004-8	500	64.3	750	93.5	0.80	1.8
ARKK5601-8	560	71.0	750	93.7	0.81	1.8
ARKK5602-8	630	79.7	750	93.9	0.81	1.8
ARKK5603-8	710	89.7	750	94.0	0.81	1.8
ARKK5604-8	800	100.9	750	94.2	0.81	1.8
ARKK6301-8	900	113.4	750	94.3	0.81	1.8
ARKK6302-8	1000	125.8	750	94.4	0.81	1.8
ARKK6303-8	1120	140.8	750	94.5	0.81	1.8
ARKK6304-8	1250	157.0	750	94.6	0.81	1.8
ARKK4501-10	185	26.1	600	90.9	0.75	1.8
ARKK4502-10	200	28.2	600	91.1	0.75	1.8
ARKK4503-10	220	30.9	600	91.3	0.75	1.8
ARKK4504-10	250	35.1	600	91.5	0.75	1.8
ARKK5001-10	280	38.6	600	91.8	0.76	1.8
ARKK5002-10	315	43.4	600	91.9	0.76	1.8
ARKK5003-10	355	48.8	600	92.1	0.76	1.8
ARKK5004-10	400	54.6	600	92.8	0.76	1.8
ARKK5601-10	450	60.4	600	93.1	0.77	1.8
ARKK5602-10	500	67	600	93.3	0.77	1.8
ARKK5603-10	560	74.8	600	93.5	0.77	1.8
ARKK5604-10	630	84.1	600	93.6	0.77	1.8
ARKK6301-10	710	93.5	600	93.7	0.78	1.8
ARKK6302-10	800	105.2	600	93.8	0.78	1.8
ARKK6303-10	900	118.2	600	93.9	0.78	1.8
ARKK6304-10	1000	131.1	600	94.0	0.78	1.8
ARKK4503-12	185	28.1	500	90.6	0.70	1.8
ARKK4504-12	200	30.3	500	90.8	0.70	1.8
ARKK5001-12	220	32.3	500	91	0.72	1.8
ARKK5002-12	250	36.6	500	91.3	0.72	1.8
ARKK5003-12	280	40.8	500	91.7	0.72	1.8
ARKK5004-12	315	45.8	500	92	0.72	1.8
ARKK5602-12	355	50.8	500	92.1	0.73	1.8
ARKK5603-12	400	57.1	500	92.3	0.73	1.8
ARKK5604-12	450	64.1	500	92.5	0.73	1.8
ARKK6301-12	500	69.2	500	92.7	0.75	1.8
ARKK6302-12	560	77.4	500	92.8	0.75	1.8
ARKK6303-12	630	87.0	500	92.9	0.75	1.8
ARKK6304-12	710	98.0	500	93	0.75	1.8

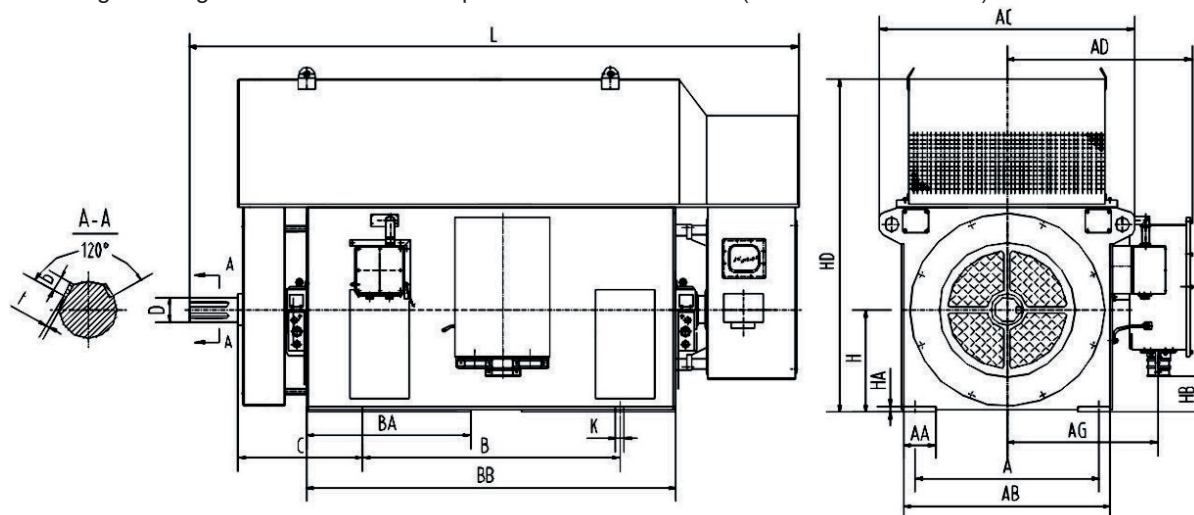
## INSTALLATION SIZE & OVERALL DIMENSION

Series ARKK High-Voltage Wound-rotor Three-phase Induction Motors (frame size 355~500)



Frame Size	A	AA	AB	AC	AD	AG	B	BA	BB	C	D	E	F	G	H	HA	HB	HD	K	L
355-4	630	130	770	970	745	587	900	565	1420	315	100	210	28	91	355	20	55	780	28	1820
450-4~8	710	130	810	1010	760	607	1000	565	1510	335	110	210	28	100	400	25	85	835	35	1940
450-4	800	150	910	1120	810	657	1120	600	1620	355	120	210	32	109	450	25	185	935	35	2080
450-6~12	800	150	910	1120	810	657	1120	600	1620	355	130	250	32	119	450	25	185	935	35	2120
500-4	900	150	1010	1250	860	707	1250	655	1730	475	130	250	32	119	500	25	285	1040	42	2550
500-6~12	900	150	1010	1250	860	707	1250	655	1730	475	140	250	36	128	500	25	285	1040	42	2555

Series ARKK High-Voltage Wound-rotor Three-phase Induction Motors (frame size 560~630)



Frame Size	A	AA	AB	AC	AD	AG	B	BA	BB	C	D	E	F	b	r	H	HA	HB	HD	K	L
560-4	1000	170	1130	1350	985	810	1400	690	1880	800	150	250	11.4	39.7	0.7	560	30	115	1160	42	3600
560-6~12	1000	170	1130	1350	985	810	1400	690	1880	800	160	300	12.4	42.8	0.7	560	30	115	1160	42	3600
630-4	1120	190	1260	1530	1050	875	1600	770	2150	900	170	300	12.4	44.2	0.7	630	30	265	1300	48	3900
630-6~12	1120	190	1260	1530	1050	875	1600	770	2150	900	180	300	12.4	45.6	0.7	630	30	265	1300	48	3900

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*ELECTRIC POWER*

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