



EKVIVES



Three-phase asynchronous electric motors of the AIR series

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Technical characteristics of electric motors of the series

Rotation axis height: 56–355 mm.

Frame design: aluminum for motors with a rotation axis height of 56, 63, and 71 mm; cast iron for motors with a rotation axis height of 80 to 355 mm; cast iron design available on request for motors with a rotation axis height of 63 and 71 mm.

Winding connection diagram: "TRIANGLE-STAR".

Standard voltage range: 220–660 V, others available.

Voltage and frequency: * for electric motors up to size 112: 220/380 V, 50 Hz;

for electric motors larger than (including) size 132: 380/660 V, 50 Hz. All AIR electric motors can be used at frequencies ranging from 40 to 60 Hz with a frequency converter. At frequencies below 40 Hz, a different cooling method is used.

Climatic design: * U2.

Insulation class "F".

Degree of protection: * IP55 (with cuffs in shields according to GOST 17494-87).

Mounting versions: on feet (IM 1081), with flange (IM 3081), combined (IM 2081),

with small flange (IM 3181), combined with small flange (IM 2181), with two shaft ends (IM 1082, IM 3082, IM 2082), with thrust bearing (IM 3011).

* - Technical specifications are given for standard designs and can be changed according to customer requirements.

Type	P, kw	rpm	Eff., %	cos φ	In, A (380V)	Moments			Weight, kg
						Is/In	Mm/Mn	Ms/Mn	
3000 rpm									
AИР 56A2	0.18	2700	65.70	0.77	0.55	5.3	2.2	2.2	4.7
AИР 56B2	0.25	2720	68.00	0.78	0.73	5.3	2.2	2.2	5.1
AИР 63A2	0.37	2730	69,70	0.81	1.00	5.7	2.2	2.2	5.5
AИР 63B2	0.55	2770	72.70	0.82	1.40	5.7	2.3	2.2	6.4
AИР71A2	0.75	2740	75.00	0.83	1.77	6.1	2.3	2.2	9
AИР71B2	1.1	2740	77.00	0.84	2.60	6.9	2.3	2.2	11
AИР 80A2	1.5	2850	79.00	0.84	3.46	7.0	2.3	2.2	13
AИР 80B2	2.2	2850	81.00	0.85	4.85	7.0	2.3	2.2	15
AИР 90L2	3.0	2860	82.60	0.87	6.34	7.5	2.3	2.2	17
AИР 100S2	4.0	2880	84.20	0.88	8.20	7.5	2.3	2.2	21
AИР 100L2	5.5	2880	85.70	0.88	11.10	7.5	2.3	2.2	28
AИР 112M2	7.5	2895	87.00	0.88	14.90	7.5	2.3	2.2	50
AИР 132M2	11.00	2900	88.40	0.89	21.20	7.5	2.3	2.2	54
AИР 160S2	15.00	2920	89.40	0.89	28.60	7.5	2.3	2.2	116
AИР 160M2	18.50	2920	90.00	0.89	34.70	7.5	2.3	2.0	130
AИР 180S2	22.00	2940	90.50	0.90	41.00	7.5	2.3	2.0	150
AИР 180M2	30.00	2940	91.00	0.90	55.70	7.5	2.3	2.0	170
AИР 200M2	37.00	2950	92.00	0.88	67.90	7.5	2.3	2.0	230
AИР 200L2	45.00	2945	91.80	0.88	84.00	7.5	2.3	2.0	255
AИР 225M2	55.00	2970	93.00	0.90	100.00	7.5	2.3	2.0	320
AИР 250S2	75.00	2975	93.00	0.90	136.10	7.0	2.3	2.0	450
AИР 250M2	90.00	2975	93.90	0.91	160.00	7.1	2.3	2.0	530
AИР 280S2	110.00	2975	93,50	0.91	196.40	7.1	2.3	2.0	650
AИР 280M2	132.00	2975	94.00	0.91	234.50	7.1	2.3	2.0	700
AИР 315S2	160.00	2975	94.00	0.92	281.10	7.1	2.2	2.0	1170
AИР 315M2	200.00	2975	94,80	0.92	348.00	7.1	2.2	2.0	1460
AИР 355S2	250.00	2980	95,20	0.92	433.00	7.1	2.2	1.6	1900
AИР 355M2	315.00	2980	95,40	0.92	545.00	7.1	2.2	1.6	2300

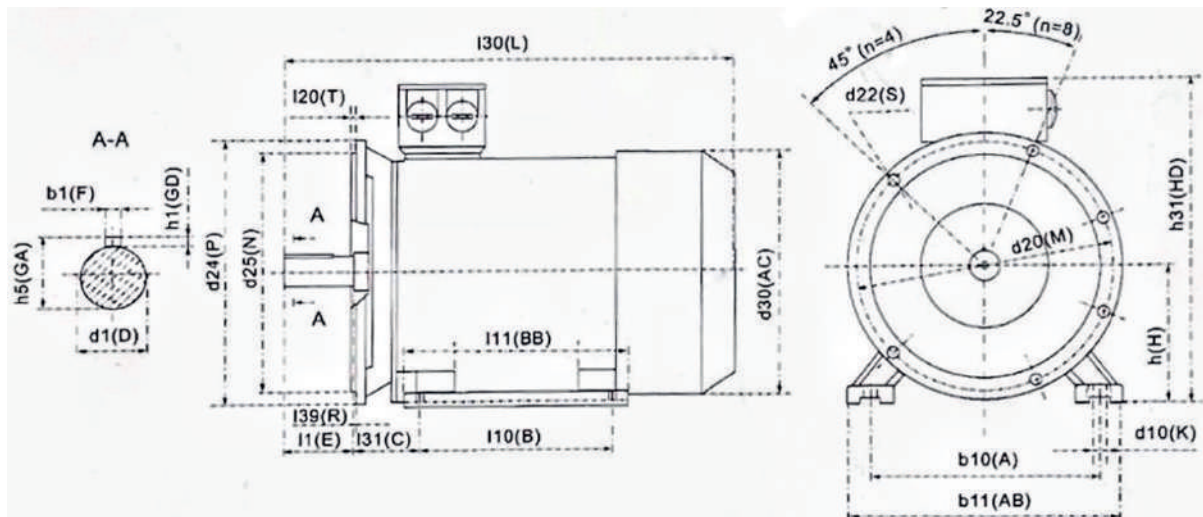
Type	P, kw	rpm	Eff. %	cos φ	In, A (380V)	Moments			Weight, kg
						Is/In	Mm/Mn	Ms/Mn	
1500 rpm									
AИP 56A4	0.12	1325	56,50	0.66	0.50	4.6	2.2	2.1	4,5
AИP 56B4	0.18	1325	61,20	0.68	0.70	4.9	2.2	2.1	5,1
AИP 63A4	0.25	1325	64,50	0.73	0.82	5.1	2.2	2.1	5,6
AИP63B4	0.37	1325	66,30	0.76	1.12	5.1	2.2	2.1	6,4
AИP71A4	0.55	1390	71.00	0.75	1.57	5.2	2.3	2.4	9
AИP71B4	0.75	1390	73.00	0.76	2.05	6.0	2.3	2.3	10
AИP 80A4	1.1	1390	76.20	0.77	2.85	6.0	2.3	2.3	14
AИP 80B4	1.5	1400	78.50	0.78	3.75	6.0	2.3	2.3	16
AИP 90L4	2.2	1410	80.00	0.81	5.10	7.0	2.3	2.3	17
AИP 100S4	3.0	1410	81.00	0.82	7.03	7.0	2.3	2.3	21
AИP 100L4	4.0	1435	84.20	0.82	8.80	7.0	2.3	2.3	37
AИP 112M4	5.5	1440	85.70	0.83	11.70	7.0	2.3	2.3	45
AИP 132S4	7.5	1450	87.00	0.84	15.60	7.0	2.3	2.3	52
AИP 132M4	11	1460	88.40	0.84	22.50	7.0	2.3	2.2	60
AИP 160S4	15	1460	89.40	0.85	30.00	7.5	2.3	2.2	125
AИP 160M4	18.5	1470	90.00	0.86	36.30	7.5	2.3	2.2	142
AИP 180S4	22	1470	90.50	0.86	43.20	7.5	2.3	2.2	160
AИP 180M4	30	1470	91.40	0.86	57.60	7.2	2.3	2.2	190
AИP 200M4	37	1475	92,00	0.87	70.20	7.2	2,3	2.2	230
AИP 200L4	45	1475	92.50	0.87	84.90	7.2	2.3	2.2	260
AИP 225M4	55	1480	93.00	0.87	103.00	7.2	2.3	2.2	325
AИP 250S4	75	1480	93.60	0.88	138.30	6.8	2.3	2.2	450
AИP 250M4	90	1480	93.90	0.88	165.50	6.8	2.3	2.2	495
AИP 280S4	110	1480	94.00	0.89	199.70	6.9	2.3	2.1	650
AИP 280M4	132	1480	94.80	0.88	240.00	6.9	2.3	2.1	700
AИP 315S4	160	1480	94.90	0.89	288.00	6.9	2.3	2.1	1000
AИP 315M4	200	1480	94.90	0.89	360.00	6.9	2.3	2.1	1200
AИP 355S4	250	1490	95.20	0.90	443.00	6.9	2.3	2.1	1700
AИP 355M4	315	1490	95.20	0.90	559.00	6.9	2.2	2.1	1900

Type	P, kw	rpm	Eff. %	cos φ	In, A (380V)	Moments			Weight, kg
						Is/In	Mm/Mn	Ms/Mn	
1000 rpm									
AИP 63A6	0.18	860	55.5	0.64	0.80	4.1	2.0	1.9	6.4
AИP 63B6	0.25	860	58.3	0.65	1.10	4.0	2.0	1.9	7.2
AИP71A6	0.37	880	62.0	0.70	1.30	4.7	2.0	1.9	9
AИP71B6	0.55	880	65.0	0.72	1.90	4.7	2.1	1.9	10
AИP 80A6	0.5	905	69.0	0.72	2.30	5.5	2.1	2.0	14
AИP 80B6	1.1	905	72.0	0.73	3.20	5.5	2.1	2.0	16
AИP 90L6	1.5	920	76.0	0.75	4.00	5.5	2.1	2.0	18
AИP 100L6	2.2	935	79.0	0.76	5.60	6.5	2.1	2.0	35
AИP 112MA6	3.0	960	81.0	0.76	7.40	6.5	2.1	2.1	41
AИP 112MB6	4.0	960	82.0	0.76	9.75	6.5	2.1	2.1	50
AИP 132S6	5.5	960	84.0	0.77	12.90	6.5	2.1	2.1	56
AИP 132M6	7.5	970	86.0	0.77	17.20	6.5	2.1	2.0	61
AИP 160S6	11	970	87.5	0.78	24.50	6.9	2.1	2.0	125
AИP 160M6	15	970	89.0	0.79	32.40	6.9	2.1	2.0	155
AИP 180M6	18.5	980	89.0	0.82	38.50	7.0	2.1	2.1	160
AИP 200M6	22	980	90.0	0.83	44.70	7.0	2.1	2.0	195
AИP 200L6	30	980	91.5	0.84	59.30	7.0	2.1	2.0	225
AИP 225M6	37	980	91.2	0.86	71.70	7.0	2.1	2.1	360
AИP 250S6	45	980	92.5	0.86	85.00	7.0	2.0	2.1	465
AИP 250M6	55	980	92.8	0.86	104.00	7.0	2.0	2.1	520
AИP 280S6	75	985	93.0	0.86	142.50	6.7	2.0	2.0	690
AИP 280M6	90	985	93.8	0.86	169.00	6.7	2.0	2.0	800
AИP 315S6	110	985	94.0	0.86	207.00	6.7	2.0	2.0	880
AИP315M6	132	985	94.2	0.87	245.00	6.7	2.0	2.0	1050
AИP 355S6	160	990	94.5	0.88	292.00	6.7	2.0	1.9	1550
AИP 355MA6	200	990	94.5	0.88	365.00	6.7	2.0	1.9	1600
AИP 355MB6	250	990	94.5	0.88	457.00	6.7	2.0	1.9	1700

Type	P, kw	rpm	Eff., %	cos φ	In, A (380V)	Moments			Weight, kg
						Is/In	Mm/Mn	Ms/Mn	
750 rpm									
AИP71B8	0.25	645	54.0	0.61	1.1	3.3	1.9	1.8	9
AИP 80A8	0.37	675	62.0	0.621	1.49	4.0	1.9	1.8	15
AИP 80B8	0.55	680	63.0	0.61	2.17	4.3	2.0	1.8	18
AИP 90LA8	0.75	680	71.0	0.67	2.4	5.5	2.0	1.8	23
AИP 90LB8	1.1	680	72.0	0.69	3.36	5.5	2.0	1.8	28
AИP 100L8	1.5	690	73.0	0.69	4.50	6.0	2.0	1.8	35
AИP 112MA8	2.2	710	75.0	0.71	6.30	6.0	2.0	1.8	45
AИP 112MB8	3.0	710	78.0	0.73	8.00	6.0	2.0	1.8	53
AИP 132S8	4.0	720	81.0	0.73	10.30	6.0	2.0	1.9	70
AИP 132M8	5.5	720	83.0	0.74	13.60	6.0	2.0	1.9	86
AИP 160S8	7.5	720	83.5	0.75	17.80	6.0	2.0	1.9	125
AИP 160M8	11	730	87.5	0.75	25.50	6.5	2.0	2.0	150
AИP 180M8	15	730	88.0	0.76	34.10	6.6	2.0	2.0	172
AИP 200M8	18.5	730	88.5	0.76	41.80	6.6	2.0	1.9	210
AИP 200L8	22	730	90.5	0.78	48.90	6.6	2.0	1.9	225
AИP 225M8	30	735	91.0	0.79	63.00	6.5	2.0	1.9	360
AИP 250S8	37	740	91.0	0.79	78.20	6.6	2.0	1.9	465
AИP 250M8	45	740	92.0	0.79	94.00	6.6	2.0	1.9	520
AИP 280S8	55	740	92.8	0.80	112.70	6.6	2.0	1.8	690
AИP 280M8	75	740	93.3	0.80	152.70	6.6	2.0	1.8	800
AИP 315S8	90	740	93.8	0.82	178.00	6.4	2.0	1.8	880
AИP 315M8	110	740	94.0	0.82	217.00	6.4	2.0	1.8	1050
AИP 355S8	132	740	93.7	0.82	261.00	6.4	2.0	1.8	2000
AИP 355MA8	160	740	94.2	0.82	315.00	6.4	2.0	1.8	2150
AИP 355MB8	200	740	94.5	0.83	387.00	6.4	2.0	1.8	2250

Type	P, kw	rpm	ККД, %	cos φ	I, A (380V)	Moments			Weight, kg
						Is/In	Mm/Mn	Ms/Mn	
600 об/мин									
AIP 250S10	22	585	86,0	0,70	55,5	6,0	2,0	1,6	475
AIP250M10	30	585	88,5	0,70	73,6	6,0	2,0	1,6	535
AIP 280S10	37	590	89,0	0,70	90,2	6,0	2,0	1,6	720
AIP 280M10	45	590	91,0	0,72	110	6,0	2,0	1,6	835
AIP 315S10	55	590	92,0	0,75	121	6,2	2,0	1,5	1150
AIP 315M10	75	590	92,5	0,76	162	6,2	2,0	1,5	1220
AIP 355S10	90	590	92,8	0,77	192	6,1	2,0	1,4	2080
AIP 355MA10	110	590	93,2	0,78	230	6,0	2,0	1,3	1800
AIP 355MB10	132	590	93,5	0,78	275	6,0	2,0	1,3	2500
AIP 355M10	160	590	93,5	0,78	333	6,0	2,0	1,3	2500

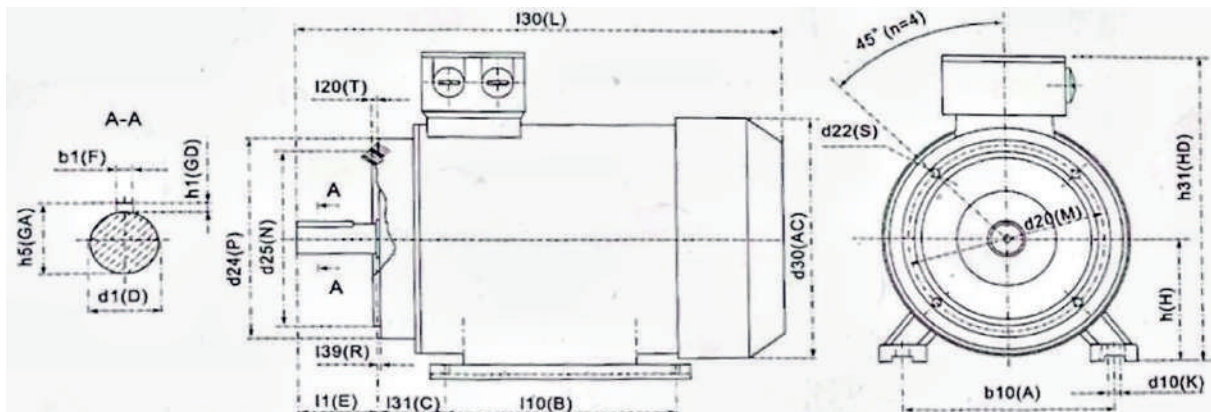
Overall, mounting and connection dimensions



Installation 1081 (B3), 2081(B35), 3081(B5)

Type	Number of motor poles					Overall, mounting and connection dimensions																		L39	L20	d22	n
		L30	H31	d30	d24	b10	b11	L10	111	L31	d1	L1	b1	h5	h1	h	d10	d20	d25								
		L	HD	AC	P	A	AB	B	BB	C	D	E	F	GA	GD	H	K	M	N	R	T	S	n				
AIP 56	2,4	216	165	120	140	90	113	71	90	36	11	23	4	12,5		56		115	95			3					
AIP 63	2,4,6,8	250	180	136	160	100	124	80	102	40	14	30	5	16		4	63	5,8	130	110			10				
AIP 71	2,4,6,8	300	195	145	200	112	150	90	120	45	19	40		21,5	5	71	7										
AIP 80A	2,4,6,8	310								130																	
AIP 80B	2,4,6,8	340	214	175	200	125	165	100	140	50	22	50	6	24,5	6	80		165	130			3,5	12				
AIP 90L	2,4,6,8	360	250	195		140	180	125	170	56	24	50		27		90	10										
AIP 100S	2,4	400						112	180																		
AIP 100L	2,4,6,8	430	270	215	250	160	205		185	63	28	60	8	31	7	100		215	180								
AIP 112MA	6,8	420	300																								
AIP 112MB	2,4,6,8	460	300	240	300	190	230			70	32			35		112		265	230			4	15				
AIP 132S	4,6,8	510						140				80															
AIP 132M	2,4,6,8	520	345	275	350	216	270		223	89	38	80	10	41		132	12										
	2										42			12	45	8											
AIP 160S	4,6,8	615						178			48			14	51,5	9											
	2	660									42			12	45	8											
AIP 160M	4,6,8		420	330	350	254	320	210	314	108	48				51,5	9	160		300	250							
	2										48			14	51,5	9											
AIP 180S	4,6,8	700						203	343		55			16	59	10											
	2										48			14	51,5	9											
AIP 180M	4,6,8	740	455	380	400	279	355	241	355	121	55						180	15	350	300				4			
	2										55	110	16	59	10												
AIP200M	4,6,8	800						267			60	140	18	64	11												
	2										55	110	16	59	10												
AIP 200L	4,6,8	800	505	420	450	318	395	305	377	133	60	140	18	64	11	200		400	350								
	2										55	110	16	59	10												
AIP 225M	4,6,8	850	560	435		356	435		394	149	65					225	19										
	2										65			18	69	11											
AIP 250S	4,6,8	925	615	490				311	445		75			20	79,5	12											
	2										65			18	69	11											
AIP250M	4,6,8	925	615	490	550	406	490	349	459	168	75				79,5	12	250		500	450			5	19			
	2										70	140	20	74,5	12												
AIP 280S	4,6,8	1060	680	560				368			80	170	22	85	14												
	2			580							70	140	20	74,5	12												
AIP 280M	4,6,8	1060	680			457	550	419	540	190	80	170	22	85	14	280	24										
	2										75	140	20	79,5	12												
AIP 315S	4,6,8	1220						406			90	170	25	95	14												
	2										75	140	20	79,5	12												
AIP315M	4,6,8	1325	845	645	660	508	635	457	680	216	90			25	95		315		600	550							
	2	1520									85	170	22	90	14												
AIP 355S	4,6,8	1560						500			100	210	28	106	16												
	2	1520									85	170	22	90	14												
AIP355M	4,6,8	1560	1010	710	800	610	730	560	775	254	100	210	28	106	16	355	28	740	680	0		6	24	8			

Overall, mounting and connection dimensions



Installation 2181(B34), 3181(B14)

Type	Кількість полюсів	Габаритні розміри				Установочні та приспднувальні розміри																	
		L30	h31	d30	d24	b10	L10	L31	d1	L1	b1	h5	h1	h	d10	d20	d25	L39	L20	d22	n		
		L	HD	AC	P	A	B	C	D	E	F	GA	GD	H	K	M	N	R	T	S	n		
AIP 56	2,4	216	165	120	105	90	71	36	11	23	4	12,5	4	56	85	70	0	2,5	M5/M6				
AIP 63	2,4,6	250	180	140	120	100	80	40	14	30	5	16	5	63		5,8		100			80		
AIP 71	2,4,6,8	300	195	145	105	112	90	45	19	40	6	21,5	6	71	7	85		70			2,5		
AIP 80A	2,4,6,8	310	214	175	120	125	100	50	22	50		24,5		80	100	80		3					
AIP 80B	2,4,6,8	340									250	195	140				140		125	56	24	27	90
AIP 90	2,4,6,8	360	250	195	140	140	125	56	24	50	8	27	7	90	10	115	95	3	M8	4			
AIP 100S	2,4	400	270	215	160	160	140	63	28	60		31		100	12	130	110						
AIP 100L	2,4,6,8	430									270	215	160	160	140	63	28	60	8	31	7	100	12



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