CATALOG
HIGH VOLTAGE ASYNCHRONOUS ELECTRIC MOTORS SERIES
ДАЗО4

elmo

The company "Dneproresurs" began its work in 1998.

Currently, DNEPRORESURS LLC specializes in the production and sale of industrial equipment.

The quality system is certified according to ISO 9001:2018.

Today, asynchronous electric motors are used in such industries as mechanical engineering, petrochemistry, chemical and metallurgical, cement, food, mining and energy industries.

Electric motors are used to operate pumps, fans, blowers, smoke exhausters, lifting mechanisms, coal pumps, industrial ventilation systems, etc. Therefore, the main requirement is high quality and reliability of operation. All electric motors of our company have passed the necessary tests and meet all standards and technical safety requirements.

The delivery of our products is carried out throughout Ukraine by goods delivery services or vehicles with strict observance of the deadlines. By ordering electric motors from our company, you can also purchase the necessary spare parts. Electric motors purchased from us are the key to the successful operation of your equipment for many years!

ASYNCHRONOUS ELECTRIC MOTORS OF ДА304 SERIES

Asynchronous closed blow three-phase electric motors with square-cage rotor of ДА304 series are designed for driving mechanisms that do not require regulation of rotation speed, as well as for driving pumps, fans, blowers, smoke exhausters and other mechanisms with similar characteristics at start-up, including driving the mechanisms for individual needs of thermal electric power station.

SPECIFICATIONS

A series of electric motors ДА304 is manufactured with a rotation height of 400, 450, 500 mm.

The motors are designed to operate from an alternative current mains with a frequency of 50 Hz, a voltage of 3 000V, 6 000V and 10 000V.

Motors with voltage 3 000V are manufactured in dimensions of motors with voltage 6 000V with rotation axis height 400, 450mm, and motors with voltage 10 000V are manufactured in dimensions with rotation axis height 500mm. Type of climatic version of motors with voltage 3 000V, 6 000V - У1, Т2, and with voltage 10 000V - У1.

The stator current of 3 000V motors is twice that of 6 000V motors.

Rated operating mode - continuous S1.

Engine design - IM1001.

Motor protection degree - IP54, terminal box - IP55, outdoor fan - IP21.

Engine cooling method - ICA01A61.

Direct start of motors is provided both at the rated mains voltage and when the mains voltage drops to 0.8 Unom during the start-up.

The motors allow two consecutive cold starts or one hot start. The interval between subsequent starts is at least three hours, the number of starts is not more than 10 000 during the period of operation and not more than 500 starts per year. The motors have grease lubricated rolling bearings. Temperature control of bearings is carried out by resistance thermocouples.

The motors are connected to the drive mechanism by means of flexible couplings. Insulating materials of the stator winding of heat resistance class not lower than "B". The insulation of the stator winding is thermosetting type "Monolith-2".

The stator winding has six output ends fixed on four insulators in the terminal box. The connection of the winding phases is a star. The temperature control of the winding and the stator core is carried out by six copper thermal converters embedded in the stator slot.

Motors allow right and left direction of rotation. A change in the direction of rotation is carried out only from a state of rest. Optimum design, high quality of materials and components used, advanced manufacturing technology provide a high technical level, guarantee safety, reliability and ease of use.

STRUCTURE OF DESIGNATION OF ELECTRIC MOTORS ДА3О4

To identify the parameters of the electric motor, a code consisting of five positions is used:

1		2	3		4	5
ДА3О4	-	450	Y	-	6	У1

Field №	Marking code	Decoding of the marking code
1	Series marking	ДА3О4 - asynchronous closed blown motor with square-cage rotor
2	Dimension	Heigh of the axe of rotation, mm
3	Installation dimension according to the length of the motor	XK, X, YK1, YK, Y, YD
4	The quantity of poles	4, 6, 8, 10, 12
5	Climatic type	According to GOST 15150

Technical features of the motors are indicated in a Table 1.

Table 1

Motor type	Power, kW	Voltage, V	Frequency of rotation, rpm	Stator current, A	Efficiency, %	cos φ	M_{start}/M_{nom}	M_{max}/M_{nom}	I_{start}/I_{nom}	Moment of inertia, kg*m^2	
										rotor	allo-wed mecha-nism
ДА3О4-400ХК-4МУ1	315	6 000	1500	38	93,7	0,86	1,3	2,8	7	44	680
ДА3О4-400Х-4МУ1	400	6 000	1500	47	94,2	0,87	1,3	2,8	7	48	920
ДА3О4-400У-4МУ1	500	6 000	1500	58,5	94,8	0,87	1,5	2,8	7	56	1120
ДА3О4-450Х-4МУ1	630	6 000	1500	74	94,7	0,87	1,2	2,5	7	88	1200
ДА3О4-450У-4МУ1	800	6 000	1500	92	95	0,88	1,3	2,6	7	104	1400
ДА3О4-400ХК-6МУ1	250	6 000	1000	31	93,2	0,83	1,3	2,5	6,5	64	1200
ДА3О4-400Х-6МУ1	315	6 000	1000	38	93,9	0,85	1,3	2,5	6,5	76	1400
ДА3О4-400У-6МУ1	400	6 000	1000	48	94,2	0,85	1,3	2,5	6,5	88	2400
ДА3О4-450Х-6МУ1	500	6 000	1000	60	94,4	0,85	1,3	2,4	6,5	132	3000
ДА3О4-450У-6МУ1	630	6 000	1000	75	94,7	0,85	1,3	2,4	6,5	156	3600
ДА3О4-400Х-8МУ1	200	6 000	750	27	92,5	0,77	1,2	2,3	6	80	2000
ДА3О4-400У-8МУ1	250	6 000	750	32,5	93	0,79	1,2	2,4	6	92	2400
ДА3О4-450Х-8МУ1	315	6 000	750	40,5	93,4	0,8	1,2	2,4	6	148	3200
ДА3О4-450УК-8МУ1	400	6 000	750	50,5	93,8	0,81	1,2	2,3	6	172	5200
ДА3О4-450У-8МУ1	500	6 000	750	62	94,2	0,82	1,2	2,3	6	200	6000
ДА3О4-400У-10МУ1	200	6 000	600	28	92	0,74	1,3	2,3	6	92	3200
ДА3О4-450Х-10МУ1	250	6 000	600	33	92,5	0,78	1,3	2,3	6	152	6000
ДА3О4-450У-10МУ1	315	6 000	600	41	93	0,8	1,3	2,3	6	172	6000
ДА3О4-450Х-12МУ1	200	6 000	500	28	91,7	0,75	1,3	2,3	5,5	164	7600
ДА3О4-450У-12МУ1	250	6 000	500	35	92,2	0,75	1,3	2,3	5,5	184	10000
ДА3О4-400ХК-4МТ2	250	6 000	1500	30	93	0,87	1,1	2,7	7,1	44	500
ДА3О4-400Х-4МТ2	315	6 000	1500	36,5	93,6	0,89	1,1	2,6	6,06	48	680
ДА3О4-400У-4МТ2	400	6 000	1500	45,5	94,2	0,89	1,1	2,4	6,6	56	920
ДА3О4-450Х-4МТ2	500	6 000	1500	58	94	0,88	1,1	2,6	7	88	1000
ДА3О4-450У-4МТ2	630	6 000	1500	72	94,7	0,89	1	2,2	6,5	104	1200
ДА3О4-400ХК-6МТ2	200	6 000	1000	24,7	92,6	0,84	1,2	2,2	6,5	64	1400
ДА3О4-400Х-6МТ2	250	6 000	1000	30	93	0,86	1,2	2,4	6,5	76	1800
ДА3О4-400У-6МТ2	315	6 000	1000	38,6	93,6	0,84	1,2	2,2	6,5	88	2400
ДА3О4-450Х-6МТ2	400	6 000	1000	48	94,2	0,85	1,2	2,2	6,5	132	2800
ДА3О4-450У-6МТ2	500	6 000	1000	59,5	94,5	0,86	1,2	2,4	6,6	156	3400
ДА3О4-400Х-8МТ2	160	6 000	750	21,7	92	0,77	1,3	2,4	6,5	80	1800
ДА3О4-400У-8МТ2	200	6 000	750	26,3	92,6	0,79	1,3	2,2	6,5	92	2200
ДА3О4-450Х-8МТ2	250	6 000	750	32	93,3	0,81	1,2	2,4	6	148	2400
ДА3О4-450УК-8МТ2	315	6 000	750	39	93,4	0,83	1,1	2,2	5,6	172	5200
ДА3О4-450У-8МТ2	400	6 000	750	51	93,5	0,81	1,2	2,3	6	200	5600
ДА3О4-450Х-10МТ2	200	6 000	600	26	92	0,81	1,2	2,3	6	152	4000
ДА3О4-450У-10МТ2	250	6 000	600	32,5	92,5	0,8	1,3	2,3	6	172	6000
ДА3О4-500ХК-4У1	315	10 000	1500	23	92,6	0,85	1,2	2	7	84	680
ДА3О4-500Х-4У1	400	10 000	1500	29	93	0,86	1	2	7	84	920
ДА3О4-500УК1-4У1	500	10 000	1500	36	93,6	0,85	1,2	2,2	7	96	1120
ДА3О4-500УК-4У1	630	10 000	1500	45	94,1	0,86	1,2	2	7	107	1200
ДА3О4-500У-4У1	800	10 000	1500	57	94,6	0,86	1,2	2	7	118	1400
ДА3О4-500Х-6У1	315	10 000	1000	24,4	93,3	0,8	1,3	2,3	6,2	140	2300
ДА3О4-500УК1-6У1	400	10 000	1000	30,4	93,9	0,81	1,3	2,4	6,5	176	3000
ДА3О4-500УК-6У1	500	10 000	1000	37,0	94,2	0,83	1,2	2,3	5,8	188	3200
ДА3О4-500У-6У1	630	10 000	1000	46,4	94,4	0,83	1,2	2,2	5,8	204	3450
ДА3О4-500Х-8У1	315	10 000	750	25,3	93,3	0,77	1,2	2,2	5,4	176	4900
ДА3О4-500У-8У1	400	10 000	750	32	93,8	0,77	1,2	2,2	5,4	212	6000

We manufacture electric motors of any power. The table shows the stan ard capacities.

Overall and connecting dimensions of the engines are given in Table 2.

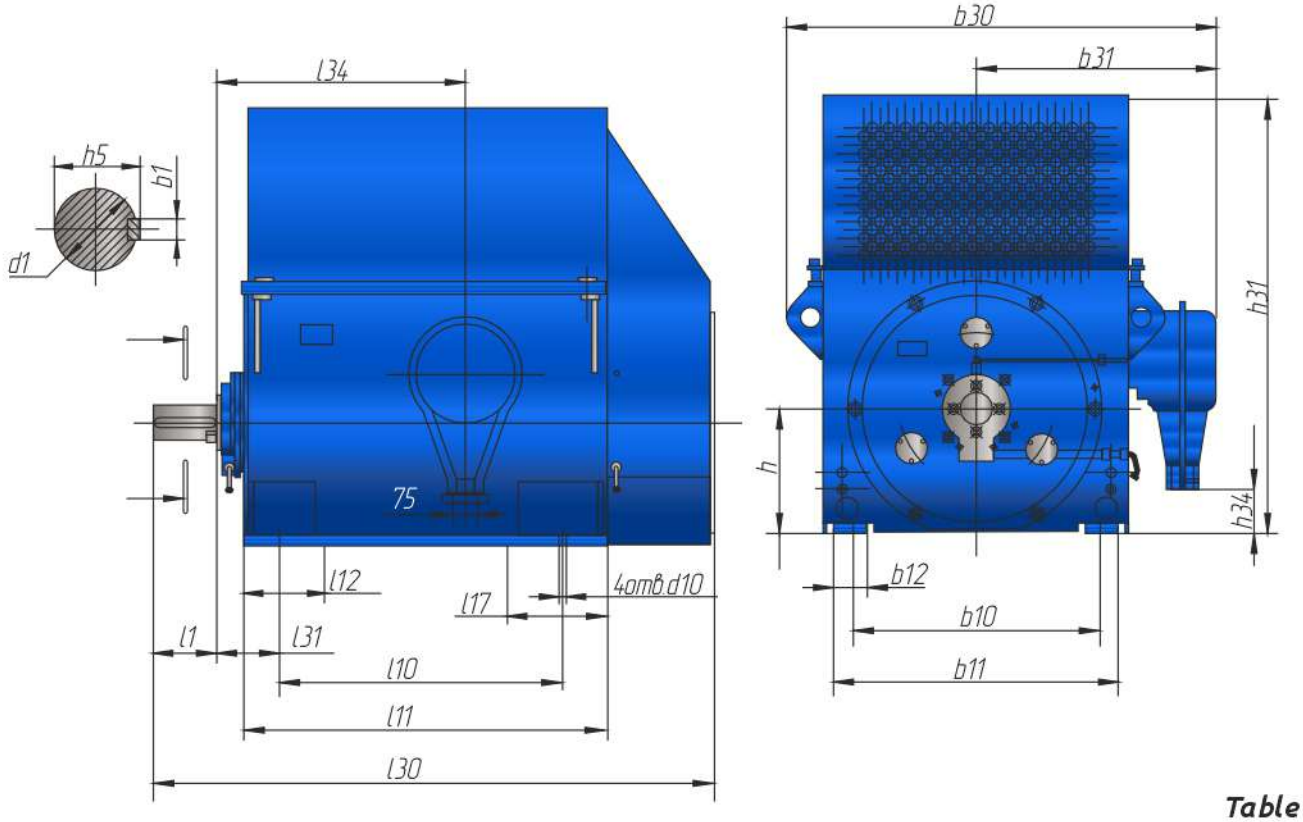

Table 2

Motor type	Demensions, mm																	Weight, kg
	b10	b11	b30	b31	d1	d10	h	h5	h31	h34	l1	l10	l11	l12	l17	l30	l31	l34	
ДА3О4-400ХК-4М	800	940	1320	710	100	35	400	106	1270	100	210	900	1140	270	330	1775	200	740	2190
ДА3О4-400Х-4М	800	940	1320	710	100	35	400	106	1270	100	210	900	1140	270	330	1775	200	740	2330
ДА3О4-400У-4М	800	940	1320	710	100	35	400	106	1270	100	210	1000	1240	270	330	1875	200	840	2630
ДА3О4-400ХК-6М	800	940	1320	710	100	35	400	106	1270	100	210	900	1140	270	330	1775	200	740	2220
ДА3О4-400Х-6М	800	940	1320	710	100	35	400	106	1270	100	210	900	1140	270	330	1775	200	740	2380
ДА3О4-400У-6М	800	940	1320	710	100	35	400	106	1270	100	210	1000	1240	270	330	1875	200	840	2650
ДА3О4-400Х-8М	800	940	1320	710	100	35	400	106	1270	100	210	900	1140	270	330	1775	200	740	2340
ДА3О4-400У-8М	800	940	1320	710	100	35	400	106	1270	100	210	1000	1240	270	330	1875	200	840	2610
ДА3О4-400У-10М	800	940	1320	710	100	35	400	106	1270	100	210	1000	1240	270	330	1875	200	840	2590
ДА3О4-450Х-4М	900	1040	1420	760	110	35	450	116	1475	205	210	900	1190	270	330	1825	224	790	2900
ДА3О4-450У-4М	900	1040	1420	760	110	35	450	116	1475	205	210	1000	1290	270	330	1925	224	890	3300
ДА3О4-450Х-6М	900	1040	1420	760	110	35	450	116	1475	205	210	900	1190	270	330	1825	224	790	2950
ДА3О4-450У-6М	900	1040	1420	760	110	35	450	116	1475	205	210	1000	1290	270	330	1925	224	890	3350
ДА3О4-450Х-8М	900	1040	1420	760	110	35	450	116	1475	205	210	900	1190	270	330	1825	224	790	2870
ДА3О4-450УК-8М	900	1040	1420	760	110	35	450	116	1475	205	210	1000	1290	270	330	1925	224	890	3200
ДА3О4-450У-8М	900	1040	1420	760	110	35	450	116	1475	205	210	1000	1290	270	330	1925	224	890	3470
ДА3О4-450Х-10М	900	1040	1420	760	110	35	450	116	1475	205	210	900	1190	270	330	1825	224	790	2770
ДА3О4-450У-10М	900	1040	1420	760	110	35	450	116	1475	205	210	1000	1290	270	330	1925	224	890	3100
ДА3О4-450Х-12М	900	1040	1420	760	110	35	450	116	1475	205	210	900	1190	270	330	1825	224	790	2860
ДА3О4-450У-12М	900	1040	1420	760	110	35	450	116	1475	205	210	1000	1290	270	330	1925	224	890	3120
ДА3О4-500ХК-4У1	900	1040	1540	880	110	42	500	116	1525	125	210	1000	1340	320	380	1975	224	870	2820
ДА3О4-500Х-4У1	900	1040	1540	880	110	42	500	116	1525	125	210	1000	1340	320	380	1975	224	870	2820
ДА3О4-500УК1-4У1	900	1040	1540	880	110	42	500	116	1525	125	210	1000	1340	320	380	1975	224	870	3065
ДА3О4-500УК-4У1	900	1040	1540	880	110	42	500	116	1525	125	210	1120	1460	320	380	2095	224	990	3325
ДА3О4-500У-4У1	900	1040	1540	880	110	42	500	116	1525	125	210	1120	1460	320	380	2095	224	990	3530
ДА3О4-500Х-6У1	900	1040	1540	880	110	42	500	116	1525	125	210	1000	1340	320	380	1975	224	870	2800
ДА3О4-500УК1-6У1	900	1040	1540	880	110	42	500	116	1525	125	210	1120	1460	320	380	2095	224	990	3300
ДА3О4-500УК-6У1	900	1040	1540	880	110	42	500	116	1525	125	210	1120	1460	320	380	2095	224	990	3400
ДА3О4-500У-6У1	900	1040	1540	880	110	42	500	116	1525	125	210	1120	1460	320	380	2095	224	990	3600
ДА3О4-500Х-8У1	900	1040	1540	880	110	42	500	116	1525	125	210	1000	1340	320	380	1975	224	870	2900
ДА3О4-500У-8У1	900	1040	1540	880	110	42	500	116	1525	125	210	1120	1460	320	380	2075	224	990	3750

We manufacture electric motors of any power. The table shows the stan ard capacities.

Questionnaire for the selection of electric motors

Name of the organization: _____
Address: _____
Contact person: _____ **Tel./Fax:** _____

Required motor ratings:

Connection voltage Δ/Y: _____,V
Mains frequency _____, Hz
Power _____, kW
Rotational speed _____, rpm
Rated current _____, A
Effiency _____, % cos φ _____
Starting current ratio _____
Starting torque ratio _____

Working mode _____
Mounting design _____
Stator winding insulation class _____
Degree of protection _____
Rotation axis height _____
Type of drive mechanism and method of torque transmission (pulley, gearbox, clutch)
_____

Environmental conditions:

Ambient temperature: -___/+___, °C humidity _____, % altitude _____, m.
Installation: internal _____, outdoor _____.
Atmosphere: normal _____, corrosive _____, explosive _____.
Start Method: Direct Start _____, winding switching with Y on Δ: _____
frequency converter _____, soft starter _____.

When controlled by a frequency converter:

Depth of speed control _____.

Cooling: self-ventilation _____, forced ventilation _____.

Shaft position/speed sensors (encoder) required _____, not required _____.

Explosion protection: not required _____, 1 ExdIIBT4 _____, PBExdI _____
Room explosion protection class _____.

Additional information:

Temperature control (presence of built-in sensors):
required _____, not required _____.
Terminal box position: above _____, right ____, left _____, other _____.
Other information: _____
_____

Number of engines ordered: _____PCS.

A correctly completed questionnaire with the maximum content of information will allow you to choose the best electric motor for you in the shortest possible time!