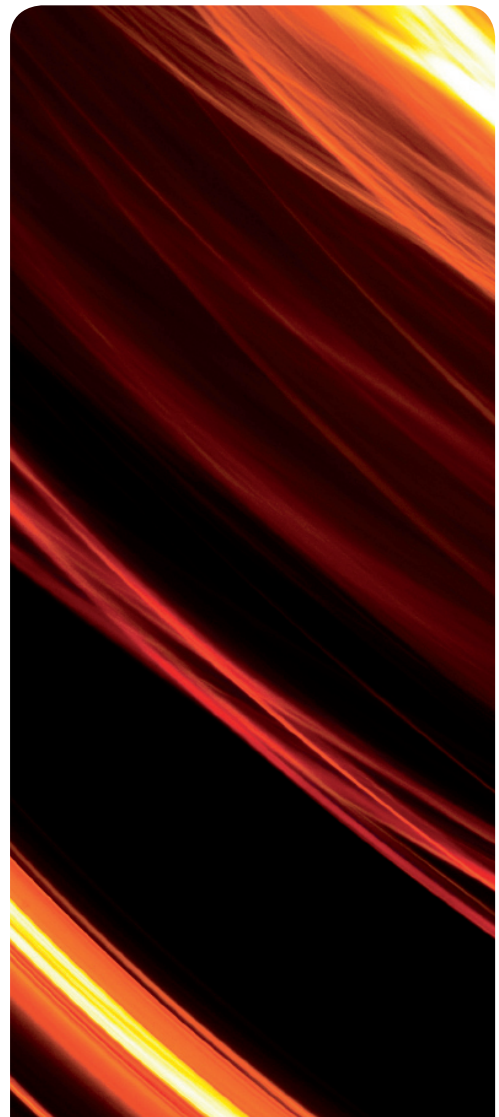
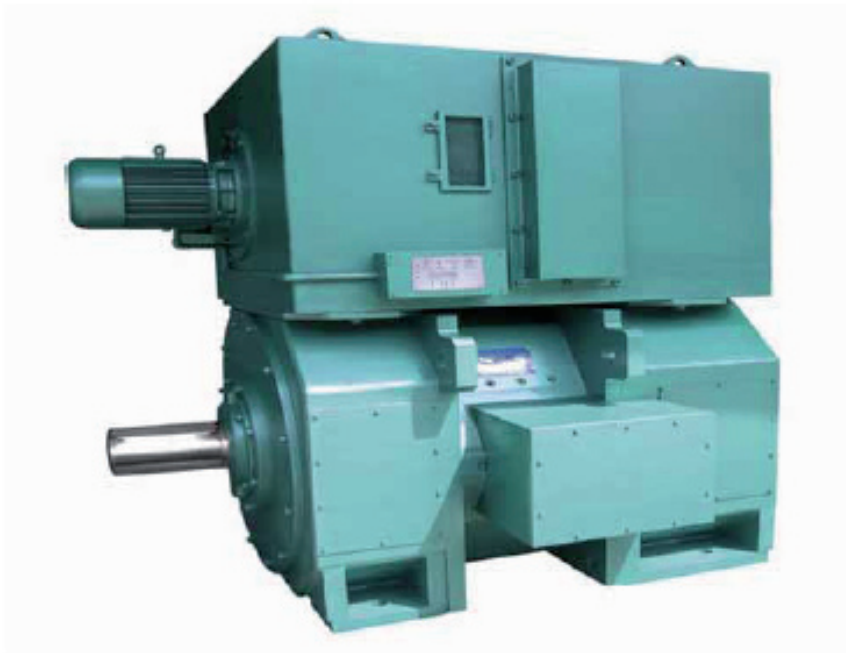


Z SERIES MEDIUM-SIZE D.C. MOTORS

Frame size: 355mm ~ 710mm



I. GENERAL DESCRIPTION

Z-series Medium-Sized D.C. Motors (Motors of central height 355-710mm), which performance, overall and mounting dimensions and the technical specifications are all conform to JB/T9577-1999 standard and IEC standard as well. All the mechanical sizes, tolerances conform to ISO standard.

The motors are widely used in such industries as industrial rolling mills, metal-cutting machines, paper making, dyeing, printing, cement and plastic-pressing fields.

The advanced designs are adopted on the motors. Multi-angle laminations are used for the stators to make the best use of the space, having such advantages as small volume, lightweight and good performances. The magnetic yoke of the stator, magnetic poles and the armature cores are made of cold-rolled silicon steel sheet of good quality, having good magnetic conductivity. The stators and rotors are treated with solvent-free varnish by means of vacuum pressure impregnation (VPI) to make the windings possess good anti-moisture capability mechanical strength and good insulation and capability of heat transmission. The rolling bearings are used in the motors and the motors can be re-lubricated at running state. H-class insulation is used for the motors.

The motors cannot only used D.C. generator sets as their power supply but are also more suitable for static rectifier with lower rotational inertia and dynamic performance and can withstand higher ratio of load variations. They are especially suitable for the controlling systems where the smooth speed governing, high efficiency, automatic static speed and sensitive reflection are needed.

II. MOUNTING-TYPE, PROTECTION DEGREE AND COOLING METHOD

1. The mounting-type of the motors conforms to GB/T997 and < Structures and Mounting Codes of Motors > of IEC34-7 standard.
2. The protection degree is in accordance with GB/T4942.1 and < Classifications of Protection Degrees of Motors > of IEC34-5 standard.
3. The cooling method is in accordance with GB/T1993 and < Cooling Methods of Motors > of IEC34-6 standard. The four basic cooling methods are as follow: Negotiations between supplier and customers may be held if other protection degrees or cooling methods are needed. For standard D.C. motors, the cooling air inlet is located at the driving end (non-commutator end).

- 3.1. IC06: external ventilation with blower on the motor (IP23)
- 3.2. IC17: The inlet is of pipe and the outlet is of shutter structure (IP23)
- 3.3. IC37: Both the cooling air inlet and the outlet are pipes (IP44)
- 3.4. ICW37A86: Totally enclosed with air-cooling/water-cooling devices (IP44)

1. The rated power refers to the service conditions where the elevation does not exceed 1000m and the ambient temperature does not exceed 40°C.
2. Both the armature circuit and excitation of the motor can use silicon control and dc generator sets as their power supply.
3. The motors cannot be used in the places where there are acid, alkaline or other corrosive gases that will cause damages to the insulation of the motors.
4. The motors can be installed in adverse circumstance, but the correct cooling method and protection degree should be used to keep motors operating normally.
5. If the motors are used for marine purpose, moist-hot areas or places in which salt mist and humidity exist, separate negotiations between supplier and customers should be held.
6. When the static rectified power supply is applied on the motors, the numbers of the pulse waves of the rectifier cannot be fewer than six. The ripple factor of the peak value of the power supply does not exceed 10%

III. PERFORMANCE

1. The basic duty of the motor is of S1. Negotiations may be needed if customers need other duties.
2. The standard voltages for the motors are 220V, 330V, 440V, 550V, 660V, 750V. Other voltages can be derived from the six basic voltages upon the request of customers.
3. The basic excitation method is separate excitation and the basic excitation voltage is 220V. Other excitation voltages can be derived from the basic voltage. The forced excitation is allowed on the motors but the excitation voltage should not exceed 500V. When the forced excitation is applied on the motors, the excitation current can be a little higher than the rated excitation current instantaneously. When the excitation current becomes static, the excitation current should not exceed the value of the rated excitation current.
4. Short-time over-load capacity of the motors:
The occasionally used short-time over-load capacity refers to the capacity over continuous rated load that the motor can withstand within 1 minute, which seldom happens or is under emergent cases. It is suggested that the short circuit instantaneous device be set in accordance with the short-time over-load capacity used occasionally.

The constantly used short-time over-load capacity refers to, as a part of regular operation period, the capacity over the rated capacity that the motor can withstand repeatedly.

After short-time over-load running, the motor should operate with lower load to enable the load r.m.s. (Root-mean square) value of the motor during the whole load period not to exceed its continuous rate.

The second kind of motors should withstand the following continuous load:

At rated armature voltage and within the range of rated speed, the motor should keep continuous running with 115% load of the rated power. Under such load conditions, the temperature rise may be higher, and other characteristics may be different from those specified under rated conditions.

At rated armature voltage and within the range of rated speed and after the continuous running at rated load, the motor should keep running for 2 hours with 125% rated power load and the temperature rise does not exceed the specified values.

Other characteristics may be different from those specified under rated conditions.

Longer over-load time is allowed when the motor is under the condition of lower over-load times. For the second kind of motors (class B), the over-load time is allowed to reach 2.5 times (at rated basic speed) when the motor is operated occasionally; but the time should not exceed 15 seconds (to be negotiated with us).

5. Speed governing ratio
The speed governing ratio is not specified for such motors. If specially required, the customers can negotiate this with the manufacturer when the order is placed.
6. Current variation ratio
Under all speeds and load conditions, the current variation ratio (di/dt) is allowed to reach 200 times of the rated current/second.
7. Noises and vibrations
The noises of motors conform to the specifications of <Measurement of Noises and Limited Values of Rotational Motors> of GB/T10069 and <The Standard Limited Values of Motor Noises> of IEC34-9. The Vibrations of the motors conform to the specifications of <Measurement of Vibrations and Limited Values of Rotational Motors> of GB/T10068 and <Measurement of Vibrations and Limited Values of Motors> of IEC34-4.

TECHNICAL DATA (STANDARD VALUE)

Z 355-3A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ar Volume Q M ³ /S	Ar pressure H Pa	Voltage reduction ΔU V	Inductance La mH
	220V	330V	440V	550V	660V										
01	184					55	329	71.5	600	4.6	11	1.5	1430	52.1	1.7
		307				90	326	80.4	1000	4.6	11	1.5	1430	51.1	1.6
			453			132	344	84.6	1500	4.6	11	1.5	1430	50.7	1.4
				558		160	323	87.8	1500	4.6	11	1.5	1430	49.9	1.5
					709	200	331	89.9	1500	4.6	11	1.5	1430	49.3	1.3
02	248					75	421	77.2	800	4.5	11	1.4	1270	40.2	1
		443				132	457	85	1500	4.5	11	1.5	1430	39.6	0.78
			550			160	405	87.7	1500	4.5	11	1.5	1430	38.7	0.94
				772		220	437	89.8	1500	4.5	11	1.5	1430	38.1	0.78
					898	250	409	91.1	1500	4.5	11	1.5	1430	37.2	0.86
03	382					110	590	82	1200	4.5	11.3	1.5	1430	31.2	0.47
		568				160	543	87.1	1500	4.5	11.3	1.5	1430	30.5	0.51
			805			220	545	90.2	1500	4.5	11.3	1.5	1430	29.8	0.48
				1057		280	549	91.5	1500	4.5	11.3	1.6	1610	28.9	0.45
					1235	315	510	92.4	1500	4.5	11.3	1.6	1610	28	0.5
04	456					132	689	84.6	1500	4.6	12	1.5	1430	25.6	0.33
		658				185	617	88.9	1500	4.6	12	1.5	1430	25.1	0.39
			922			250	614	91	1500	4.6	12	1.6	1610	24.4	0.37
				1214		315	614	92.1	1500	4.6	12	1.6	1610	23.2	0.35
					1442	355	571	93.1	1500	4.6	12	1.7	1800	22.3	0.38
05	557					160	813	87.2	1500	4.7	12	1.5	1430	19.8	0.23
		913				250	821	90.7	1500	4.7	12	1.6	1610	19.1	0.21
			1219			315	764	92.5	1500	4.7	12	1.7	1800	18.1	0.23
				1540		371	716	93.1	1540	4.7	12	1.8	2000	17.1	0.24

TECHNICAL DATA (STANDARD VALUE)

Z 355-4A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power	Rated current	Efficiency	Max. speed	Excitation power	Moment of inertia	Ventilation		Armature circuit	
												Ar Volume	Ar pressure	Voltage reduction	Inductance
	220V	330V	440V	550V	660V	P _N kW	I _N A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /S	H Pa	ΔU V	La mH
01	148					55	340	68.8	600	5.2	13.1	1.6	1610	57.5	2
		246				90	332	78.5	800	5.3	13.1	1.6	1610	56.4	1.9
			363			132	348	83.5	1200	5.3	13.1	1.6	1610	56.1	1.7
				447		160	327	86.4	1500	5.3	13.1	1.6	1610	55.2	1.8
					568	200	335	88.4	1500	5.3	13.1	1.6	1610	54.5	1.7
02	196					75	432	74.6	800	5.4	13.1	1.6	1610	44.5	1.2
		354				132	466	83	1200	5.4	13.1	1.6	1610	43.4	0.96
			436			160	410	86.1	1500	5.5	13.1	1.6	1610	42.9	1.2
				556		200	401	88.6	1500	5.4	13.1	1.6	1610	42	1.2
					710	250	411	90.3	1500	5.4	13.1	1.6	1610	41.2	1.1
03	305					110	604	79.7	1000	5.3	13.2	1.6	1610	34.4	0.57
		453				160	549	85.8	1500	5.4	13.2	1.6	1610	33.8	0.63
			641			220	549	89.1	1500	5.3	13.2	1.6	1610	33.1	0.6
				838		280	550	91.1	1500	5.3	13.2	1.7	1800	32.1	0.57
					974	315	511	92	1500	5.4	13.2	1.7	1800	31	0.63
04	365					132	700	82.9	1200	5.3	13.7	1.6	1610	28.1	0.41
		526				185	624	87.6	1500	5.3	13.7	1.6	1610	27.5	0.48
			734			250	619	90.1	1500	5.3	13.7	1.7	1800	26.7	0.46
				961		315	614	91.9	1500	5.3	13.7	1.7	1800	25.8	0.45
					1137	355	574	92.5	1500	5.3	13.7	1.8	2000	24.9	0.48
05	443					160	824	85.8	1500	5.4	13.7	1.6	1610	21.8	0.29
		724				250	824	90.1	1500	5.4	13.7	1.7	1800	21	0.26
			961			315	769	91.7	1500	5.4	13.7	1.7	1800	20.2	0.28
				1220		375	727	92.6	1500	5.4	13.7	1.8	2000	19.1	0.3
					1478	425	681	93.4	1500	5.4	13.7	1.9	2220	18.1	0.31

TECHNICAL DATA (STANDARD VALUE)

Z 400-2A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power	Rated current	Efficiency	Max. speed	Excitation power	Moment of inertia	Ventilation		Armature circuit	
												Ar Volume	Ar pressure	Voltage reduction	Inductance
	220V	330V	440V	550V	660V	P _N kW	I _N A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /S	H Pa	ΔU V	La mH
01	126					55	355	65.5	500	5.9	20.2	1.8	1310	63.9	2.3
		205				90	342	75.9	800	5.8	20.2	1.9	1450	64.3	2.3
			304			132	356	81.5	1000	5.7	20.2	1.9	1450	63.8	1.9
				429		185	382	85.7	1200	5.6	20.2	1.9	1450	63.2	1.6
					514	220	371	87.9	1500	5.6	20.2	1.9	1450	63	1.7
02	164					75	457	70.6	500	5.7	20.2	1.9	1450	55.1	1.4
		244				110	404	79.3	1000	5.7	20.2	1.9	1450	54.4	1.6
			359			160	420	84.1	1200	5.7	20.2	1.9	1450	53.9	1.4
				454		200	399	86.7	1500	5.7	20.2	1.9	1590	53.1	1.4
					573	250	418	88.9	1500	5.7	20.2	2	1590	52.8	1.3
03	203					90	516	75.4	800	5.9	20.9	1.9	1450	43.5	1
		341				150	530	83.1	1200	5.9	20.9	1.9	1450	43.1	0.87
			460			200	513	86.5	1500	5.9	20.9	1.9	1450	42.7	0.89
				596		255	512	88.8	1500	5.9	20.9	2	1590	42.3	0.86
					746	315	518	90.6	1500	5.9	20.9	2	1590	41.4	0.82
04	305					132	715	81	1000	5.8	20.9	1.9	1450	32.8	0.48
		469				200	683	86.6	1500	5.8	20.9	1.9	1450	32.5	0.49
			666			280	697	89.7	1500	5.8	20.9	2	1590	32.3	0.45
				813		335	658	91.2	1500	5.7	20.9	2	1590	31.5	0.49
					993	400	650	92.1	1500	5.8	20.9	2.1	1740	31.2	0.49
05	363					160	843	83.7	1200	5.8	21.3	1.9	1450	27.4	0.34
		579				250	836	88.8	1500	5.7	21.3	2	1590	27.1	0.33
			796			335	823	91.1	1500	5.7	21.3	2.1	1740	26.4	0.32
				976		400	783	91.7	1500	5.8	21.3	2.1	1740	25.9	0.34
					1193	475	766	93	1500	5.7	21.3	2.2	1900	25.2	0.34
06	468					200	1028	86.2	1500	6	21.3	2	1590	22.3	0.22
		724				300	994	89.9	1500	6	21.3	2.1	1740	21.5	0.22
			999			400	975	92	1500	6	21.3	2.2	1900	21	0.22
				1237		475	921	92.7	1500	6	21.3	2.3	2060	20.2	0.23
					1534	560	899	93.5	1534	6	21.3	2.4	2230	19.4	0.23

TECHNICAL DATA (STANDARD VALUE)

Z 400-3A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ä r Volume Q M ³ /S	Ä r pressure H Pa	Voltage reduction ΔU V	Inductance La mH
	220V	330V	440V	550V	660V										
01	97					55	375	61.9	350	6.5	23.9	2.1	1740	72.1	2.9
		162				90	351	73.6	600	6.6	23.9	2	1590	71	2.8
			239			132	362	79.7	800	6.6	23.9	2.1	1740	70.3	2.4
				336		185	384	85.1	1000	6.6	23.9	2.1	1740	70.5	2
					402	220	376	86.5	1200	6.6	23.9	2.1	1740	70.4	2.1
02	130					75	469	68.4	500	6.5	23.9	2	1590	60.8	1.7
		192				110	412	77.2	600	6.7	23.9	2.1	1740	60.1	2
			282			160	425	82.7	1000	6.6	23.9	2.1	1740	59.5	1.8
				355		200	414	85.5	1200	6.7	23.9	2.1	1740	59.3	1.8
					449	250	421	87.9	1500	6.6	23.9	2.1	1740	58.6	1.7
03	160					90	530	73.2	600	6.5	24.5	2.1	1740	48.8	1.2
		271				150	537	81.7	1000	6.5	24.5	2.1	1740	47.8	1.1
			364			200	517	85.5	1200	6.5	24.5	2.1	1740	47.6	1.1
				462		250	505	88	1500	6.6	24.5	2.1	1740	46.8	1.1
					592	315	522	89.9	1500	6.5	24.5	2.2	1900	46.3	1
04	239					132	725	79.6	800	6.5	24.5	2.1	1740	36.6	0.61
		367				200	689	85.5	1200	6.6	24.5	2.1	1740	36.1	0.62
			522			280	702	88.8	1500	6.6	24.5	2.1	1740	35.7	0.57
				636		335	662	90.4	1500	6.6	24.5	2.2	1900	35.2	0.62
					774	400	652	91.6	1500	6.6	24.5	2.2	1900	34.7	0.62
05	286					160	854	82.3	1000	6.6	25.1	2.1	1740	30.4	0.43
		453				250	845	87.6	1500	6.6	25.1	2.2	1900	30.1	0.41
			622			335	824	90.8	1500	6.6	25.1	2.2	1900	29.5	0.41
				760		400	783	91.5	1500	6.6	25.1	2.3	2060	29	0.44
					908	475	767	92.7	1500	6.6	25.1	2.3	2060	28.2	0.45
06	371					200	1037	85.2	1200	6.6	25.1	2.1	1740	24.4	0.27
		573				300	997	89.4	1500	6.6	25.1	2.2	1900	24	0.28
			787			400	977	91.7	1500	6.6	25.1	2.3	2060	23.4	0.27
				972		475	921	92.6	1500	6.6	25.1	2.4	2230	22.6	0.29
					1199	560	898	93.5	1500	6.6	25.1	2.4	2230	21.6	0.29

TECHNICAL DATA (STANDARD VALUE)

Z 400-4A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ä r Volume Q M ³ /S	Ä r pressure H Pa	Voltage reduction ΔU V	Inductance L_a mH
	220V	330V	440V	550V	660V										
01	64					45	319	57.7	300	8	28.1	2.3	2060	79.1	5.1
		129				90	363	70.7	500	7.7	28.1	2.3	2060	80	3.4
			191			132	369	77.7	600	7.7	28.1	2.3	2060	79.1	3
				232		160	343	81.5	800	7.7	28.1	2.3	2060	79	3.3
					294	200	348	84.4	1000	7.7	28.1	2.3	2060	78.2	3.1
02	105					75	496	64.3	300	7.7	28.1	2.2	1900	67.1	2
		155				110	422	75	500	7.6	28.1	2.3	2060	67.1	2.4
			227			160	432	81	800	7.7	28.1	2.3	2060	66.5	2.1
				286		200	417	84.4	1000	7.7	28.1	2.3	2060	66.1	2.2
					360	250	425	86.8	1200	7.7	28.1	2.3	2060	65.6	2.1
03	129					90	544	70.8	500	7.6	29.6	2.2	1900	53.1	1.5
		216				150	546	79.9	700	7.6	29.6	2.3	2060	53	1.3
			292			200	521	84.5	1000	7.6	29.6	2.3	2060	52.1	1.4
				371		250	498	87.2	1200	7.6	29.6	2.3	2060	51.5	1.4
					450	300	500	88.9	1500	7.6	29.6	2.3	2060	51	1.4
04	192					132	740	77.5	500	7.6	29.6	2.3	2060	40.8	0.74
		292				200	698	84.1	1000	7.7	29.6	2.3	2060	40.6	0.77
			417			280	709	87.7	1200	7.7	29.6	2.3	2060	40	0.71
				508		335	665	89.8	1500	7.7	29.6	2.4	2230	39.4	0.78
					617	400	654	91.1	1500	7.6	29.6	2.4	2230	38.8	0.78
05	214					150	814	80.3	800	7.7	29.8	2.3	2060	34.1	0.6
		363				250	850	86.8	1200	7.7	29.8	2.4	2230	33.2	0.51
			467			315	786	89.1	1500	7.7	29.8	2.4	2230	29.8	0.57
				607		400	784	91.2	1500	7.7	29.8	2.4	2230	32.1	0.55
					738	475	768	92.4	1500	7.7	29.8	2.5	2410	31.6	0.56
06	297					200	1049	83.9	1000	7.6	29.8	2.3	2060	27.1	0.34
		457				300	1002	88.7	1500	7.7	29.8	2.4	2230	26.5	0.34
			626			400	980	91.2	1500	7.6	29.8	2.4	2230	26	0.34
				771		475	923	92.2	1500	7.6	29.8	2.5	2410	25.1	0.37
					946	560	899	93.2	1500	7.6	29.8	2.5	2410	24.4	0.37

TECHNICAL DATA (STANDARD VALUE)

Z 450-1A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ar Volume Q M ³ /S	Ar pressure H Pa	Voltage reduction ΔU V	Inductance La mH
	220V	330V	440V	550V	660V										
01	173					90	525	74.3	600	5.8	41.8	2	1130	46.3	2
		311				160	571	82.5	1000	5.8	41.8	2.1	1230	45.4	0.89
			431			220	566	86.4	1200	5.8	41.8	2.1	1230	45.6	0.86
				557		280	564	88.7	1500	5.8	41.8	2	1340	45	0.84
					676	335	554	90.3	1500	5.8	41.8	2	1340	44.5	0.84
02	229					120	669	78.5	1500	5.7	41.8	2.1	1230	38.3	0.69
		356				185	644	84.8	700	5.7	41.8	2.1	1230	38.1	0.69
			487			250	633	88	1000	5.7	41.8	2.2	1340	37.6	0.68
				664		335	665	90.2	1500	5.7	41.8	2.2	1340	37.1	0.59
					806	400	654	91.5	1500	5.7	41.8	2.3	1450	36.4	0.6
03	287					150	805	82.1	1500	5.7	37.3	2.1	1230	30.5	0.45
		485				250	848	87.6	1000	5.7	37.3	2.1	1230	30.1	0.38
			623			315	785	89.8	1500	5.7	37.3	2.2	1340	29.6	0.43
				750		400	784	91.6	1500	5.7	37.3	2.3	1450	29	0.45
					986	475	769	92.6	1500	5.7	37.3	2.4	1570	28.2	0.42
04	432					220	1138	85.9	1500	5.7	37.3	2.2	1340	23.8	0.21
		674				335	1112	89.9	1500	5.7	37.3	2.3	1450	23.2	0.21
			879			425	1042	91.6	1500	5.7	37.3	2.4	1570	22.7	0.23
				1132		530	1028	92.8	1500	5.7	37.3	2.5	1690	22.2	0.23
					1395	630	1013	93.5	1500	5.7	37.3	2.7	1950	21.5	0.22
05	489					250	1275	87.4	1500	5.7	39.2	2.3	1450	19.7	0.17
		807				400	1313	91.1	1500	5.7	39.2	2.4	1570	19.2	0.15
			1049			500	1219	92.3	1500	5.7	39.2	2.6	1810	18.6	0.16
				1320		600	1161	93.1	1500	5.7	39.2	2.7	1950	18	0.17
06	626					315	1578	89.3	1500	5.7	39.2	2.4	1570	15.7	0.1
		990				475	1546	92.1	1500	5.7	39.2	2.5	1690	15.1	0.1
			1328			600	1454	93	1500	5.7	39.2	2.8	2080	14.2	0.11

TECHNICAL DATA (STANDARD VALUE)

Z 450-2A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P _N kW	Rated current I _N A	Efficiency η %	Max. speed n _{max} r/min	Excitation power P _f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ar Volume Q M ³ /S	Ar pressure H Pa	Voltage reduction ΔU V	Inductance L _a mH
	220V	330V	440V	550V	660V										
01	137					90	535	72.4	500	6.7	39.2	2.2	1340	50.3	1.4
		246				160	518	90.2	800	6.7	39.2	2.3	1450	50.1	1.2
			340			220	570	85.4	1000	6.7	39.2	2.3	1450	49.7	1.6
				439		280	567	87.9	1500	6.7	39.2	2.3	1450	49.2	1.1
					531	335	555	89.8	1500	6.7	39.2	2.4	1570	48.7	1.1
02	178					118	674	76.5	600	6.5	39.2	2.3	1450	42.3	0.9
		283				185	651	83.6	1000	6.7	39.2	2.3	1450	41.7	0.86
			385			250	637	87.2	1200	6.7	39.2	2.4	1570	41.3	0.86
				524		335	668	89.6	1500	6.7	39.2	2.4	1570	40.7	0.75
					637	400	656	91	1500	6.7	39.2	2.4	1570	40.1	0.75
03	227					150	814	80.8	800	6.7	42.6	2.2	1340	33.3	0.57
		359				235	803	86.5	1200	6.7	42.6	2.3	1450	33.1	0.55
			590			322	804	89.4	1000	6.7	42.6	2.4	1570	32.1	0.44
				636		400	787	91.1	1500	6.7	42.6	2.4	1570	31.8	0.52
					750	450	730	92.2	1500	6.7	42.6	2.5	1690	31.1	0.58
04	341					220	1149	84.8	1200	6.7	42.6	2.4	1570	25.6	0.27
		530				335	1118	89.2	1500	6.7	42.6	2.5	1690	25.2	0.27
			692			425	1044	91.2	1500	6.7	42.6	2.5	1690	24.7	0.29
				888		530	1030	92.5	1500	6.7	42.6	2.6	1810	24.2	0.29
					1093	630	1011	93.5	1500	6.7	42.6	2.7	1950	23.4	0.29
05	386					250	1279	86.8	1200	6.7	44.2	2.5	1690	21.6	0.21
		635				400	1316	90.7	1500	6.7	44.2	2.6	1810	21.1	0.19
			825			500	1219	92.1	1500	6.7	44.2	2.7	1950	20.4	0.21
				1083		630	1216	93.3	1500	6.7	44.2	2.8	2080	19.6	0.2
06	493					315	1582	88.8	1500	6.7	44.2	2.5	1690	17.1	0.13
		775				475	1549	91.7	1500	6.7	44.2	2.7	1950	16.5	0.13
			1036			600	1450	93.1	1500	6.7	44.2	2.8	2080	15.7	0.14

TECHNICAL DATA (STANDARD VALUE)

Z 450-3A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P _N kW	Rated current I _N A	Efficiency η %	Max. speed n _{max} r/min	Excitation power P _f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ar Volume Q M ³ /S	Ar pressure H Pa	Voltage reduction ΔU V	Inductance L _a mH
	220V	330V	440V	550V	660V										
01	110					90	558	69.6	350	6.5	47.9	2.4	1570	56.2	1.7
		185				150	555	79.1	600	6.5	47.9	2.5	1690	55.6	1.5
			274			220	581	84	800	6.5	47.9	2.5	1690	55.4	1.3
				353		280	574	86.9	1000	6.5	47.9	2.5	1690	54.7	1.3
					402	315	528	88.8	1200	6.5	47.9	2.5	1690	54.1	1.5
02	133					110	645	74.1	500	6.5	47.9	2.5	1690	47	1.5
		227				185	663	82.2	800	6.5	47.9	2.5	1690	46.4	1.1
			310			250	646	86.1	1000	6.5	47.9	2.5	1690	46.1	1
				396		315	636	88.5	1200	6.5	47.9	2.6	1810	45.5	1
					497	375	620	90.2	1500	6.5	47.9	2.6	1810	44.8	1
03	183					150	832	79.1	600	6.5	49.2	2.4	1570	37.1	0.69
		309				250	867	85.5	800	6.5	49.2	2.5	1690	36.5	0.59
			395			315	794	88.6	1200	6.5	49.2	2.5	1690	36.1	0.67
				512		400	793	90.4	1500	6.5	49.2	2.6	1810	35.4	0.64
					593	467	761	91.8	1500	6.5	49.2	2.6	1810	34.7	0.7
04	251					200	1061	83.4	800	6.5	49.2	2.5	1690	28.5	0.39
		402				315	1062	88.3	1500	6.5	49.2	2.6	1810	28	0.37
			554			425	1049	90.8	1500	6.5	49.2	2.7	1950	27.4	0.36
				711		530	1033	92.3	1500	6.5	49.2	2.8	2080	26.8	0.36
					871	630	1012	93.4	1500	6.5	49.2	2.8	2080	26.2	0.36
05	311					250	1298	85.6	1000	6.5	51.6	2.6	1810	23.8	0.26
		478				375	1246	89.8	1500	6.5	51.6	2.7	1950	23.4	0.26
			660			500	1223	91.8	1500	6.5	51.6	2.8	2080	22.7	0.26
				863		630	1218	93.2	1500	6.5	51.6	2.9	2230	21.9	0.25
06	397					315	1598	88	1200	6.5	51.6	2.6	1810	19	0.17
		622				475	1556	91.4	1500	6.5	51.6	2.8	2080	18.2	0.16
			828			600	1454	92.9	1500	6.5	51.6	2.9	2230	17.5	0.17

TECHNICAL DATA (STANDARD VALUE)

Z 450-4A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ar Volume Q M ³ /S	Ar pressure H Pa	Voltage reduction ΔU V	Inductance L_a mH
	220V	330V	440V	550V	660V										
01	90					90	580	66.7	300	7.3	56.9	2.7	1950	62.5	2
		142				150	569	77	500	7.3	56.9	2.7	1950	62.4	2
			201			220	536	82.2	700	7.3	56.9	2.7	1950	61.7	2
				283		280	581	85.5	800	7.3	56.9	2.8	2080	61.5	1.6
					322	315	535	87.5	1000	7.3	56.9	2.9	2080	61	1.8
02	107					110	665	71.6	350	7.3	56.9	2.7	1950	51.9	1.5
		183				185	672	80.8	600	7.3	56.9	2.7	1950	51.1	1.3
			249			250	652	85	800	7.3	56.9	2.7	1950	50.9	1.3
				317		315	641	87.6	1000	7.3	56.9	2.8	2080	50.2	1.3
					383	375	625	89.4	1200	7.3	56.9	2.8	2080	49.5	1.3
03	147					150	855	76.8	500	7.3	59	2.7	1950	41.5	0.84
		219				220	773	83.9	800	7.3	59	2.7	1950	41	0.93
			318			315	802	87.5	1000	7.3	59	2.7	1950	40.4	0.82
				384		375	749	89.5	1200	7.3	59	2.8	2080	39.9	0.91
					497	475	777	91.3	1500	7.3	59	2.8	2080	39.2	0.82
04	201					200	1080	81.7	600	7.3	59	2.8	2080	32	0.48
		321				315	1071	87.3	1000	7.3	59	2.9	2230	31.4	0.46
			443			425	1055	90.1	1500	7.3	59	2.9	2230	30.8	0.45
				567		530	1037	91.8	1500	7.3	59	2.9	2230	30.2	0.45
					692	630	1016	93	1500	7.3	59	3	2370	29.4	0.45
05	250					250	1313	84.4	800	7.3	61.2	2.9	2230	26.8	0.32
		382				375	1258	88.8	1200	7.3	61.2	2.9	2230	26.2	0.33
			526			500	1230	91.2	1500	7.3	61.2	3	2370	25.5	0.32
				686		630	1223	92.7	1550	7.3	61.2	3	2370	24.7	0.31
06	317					315	1609	87.2	1000	7.3	61.2	2.8	2080	20.8	0.21
		498				475	1560	91	1500	7.3	61.2	2.9	2230	20.1	0.2
			657			600	1458	92.5	1500	7.3	61.2	3	2370	19.3	0.22

TECHNICAL DATA (STANDARD VALUE)

Z 500-1A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power	Rated current	Efficiency	Max. speed	Excitation power	Moment of inertia	Ventilation		Armature circuit	
												Ä r	Ä r	Voltage reduction	Inductance
	220V	330V	440V	550V	660V	P _N	I _N	η	n _{max}	P _f	J	Q	H	ΔU	La
					kW	A	%	r/min	kW	kg.m ²	M ³ /S	Pa	V	mH	
01	201					160	878	80.3	600	6.2	70.2	2.4	1050	34.1	0.6
		319				250	879	86.2	1000	6.2	70.2	2.5	1130	33.7	0.56
			462			355	888	89.5	1200	6.2	70.2	2.6	1210	33.1	0.51
				565		425	839	90.9	1200	6.2	70.2	2.6	1210	32.5	0.55
					679	500	813	92.1	1200	6.2	70.2	2.7	1290	32	0.57
02	247					200	1062	83.4	800	6.2	70.2	2.4	1050	28.2	0.4
		396				315	1063	88.3	1200	6.2	70.2	2.5	1130	27.8	0.37
			517			400	990	90.6	1200	6.2	70.2	2.6	1210	27.1	0.41
				664		500	977	92	1200	6.2	70.2	2.7	1290	26.5	0.4
					823	600	967	93.1	1200	6.2	70.2	2.7	1290	25.8	0.4
03	318					250	1293	86	1000	6.2	72.1	2.6	1210	22.5	0.26
		526				400	1325	90.2	1200	6.2	72.1	2.7	1290	19.9	0.23
			724			530	1294	92.1	1200	6.2	72.1	2.8	1380	21.2	0.22
				898		630	1219	93.1	1200	6.2	72.1	2.9	1470	20.5	0.24
					1065	710	1139	93.7	1200	6.2	72.1	3	1560	19.6	0.26
04	461					355	1787	88.9	1200	6.2	73.8	2.7	1290	17.1	0.13
		681				500	1636	91.6	1200	6.2	73.8	2.8	1380	16.5	0.14
			962			670	1620	93.2	1200	6.2	73.8	3	1560	15.8	0.13
				1150		750	1444	93.7	1200	6.2	73.8	3.1	1660	15	0.16
05	518					400	1999	89.7	1200	6.2	73.8	2.8	1380	14.8	0.1
		823				600	1949	92.4	1200	6.2	73.8	3	1560	14.1	0.1
			1095			750	1809	93.5	1200	6.2	73.8	3.2	1760	13.3	0.1

TECHNICAL DATA (STANDARD VALUE)

Z 500-2A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power	Rated current	Efficiency	Max. speed	Excitation power	Moment of inertia	Ventilation		Armature circuit	
												Ar Volume	Ar pressure	Voltage reduction	Inductance
	220V	330V	440V	550V	660V	P _N kW	I _N A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /S	H Pa	ΔU V	La mH
01	162					160	896	78.7	500	6.3	80.2	2.6	1210	37.7	0.72
		256				250	873	85	800	6.3	80.2	2.7	1290	37.3	0.71
			348			335	850	88.3	1000	6.3	80.2	2.7	1290	36.7	0.71
				428		425	844	90.4	1200	6.3	80.2	2.8	1380	36.1	0.73
					540	500	819	91.5	1200	6.3	80.2	2.8	1380	35.6	0.71
02	198					200	1082	81.9	600	6.3	80.2	2.6	1210	31.1	0.49
		302				300	1024	87.2	1000	6.3	80.2	2.7	1290	30.7	0.51
			411			740	997	89.9	1200	6.3	80.2	2.8	1380	30.2	0.51
				550		500	981	91.6	1300	6.3	80.2	2.8	1380	29.4	0.49
					706	626	1011	93	1400	6.3	80.2	2.9	1470	28.4	0.44
03	254					250	1307	85.1	800	6.3	81	2.7	1290	24.3	0.32
		420				400	1331	89.8	1000	6.3	81	2.8	1380	23.7	0.28
			575			530	1297	91.9	1200	6.3	81	2.9	1470	23.1	0.28
				711		630	1221	93	1200	6.3	81	2.9	1470	22.4	0.3
					837	710	1140	93.6	1200	6.3	81	3	1560	21.5	0.33
04	347					335	1704	87.9	1000	6.3	85.2	2.8	1380	18.9	0.18
		540				500	1643	91.2	1200	6.3	85.2	2.9	1470	18.1	0.18
			761			670	1623	93	1200	6.3	85.2	3	1560	17.6	0.17
				965		800	1538	93.9	1200	6.3	85.2	3.1	1660	16.6	0.18
05	412					400	2008	89.3	1200	6.3	85.2	2.9	1470	15.8	0.13
		654				600	1949	92.4	1200	6.3	85.2	3.1	1660	15.2	0.12
			875			750	1809	93.5	1200	6.3	85.2	3.2	1760	14.3	0.13

TECHNICAL DATA (STANDARD VALUE)

Z 500-3A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power	Rated current	Efficiency	Max. speed	Excitation power	Moment of inertia	Ventilation		Armature circuit	
												Ar Volume	Ar pressure	Voltage reduction	Inductance
	220V	330V	440V	550V	660V	P _N kW	I _N A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /S	H Pa	ΔU V	La mH
01	124					150	856	76.5	400	7.8	94.4	2.9	1470	41.7	0.99
		209				250	882	83.7	600	7.8	94.4	3	1560	41.3	0.86
			284			335	854	87.4	1000	7.8	94.4	3	1560	40.7	0.87
				368		425	848	89.7	1200	7.8	94.4	3	1560	40.2	0.85
					440	500	819	91.2	1200	7.8	94.4	3	1560	39.4	0.88
02	150					185	1015	80.1	500	7.8	94.4	2.9	1470	34.5	0.69
		248				300	1031	86.2	700	7.8	94.4	2.9	1470	33.8	0.62
			336			400	1001	89.3	1000	7.8	94.4	3	1560	33.2	0.61
				550		550	1073	92	1300	7.8	94.4	3	1560	32.6	0.45
					532	600	973	92.4	1200	7.8	94.4	3	1560	31.8	0.61
03	209					250	1318	84	600	7.8	95.8	3	1560	26.8	0.38
		344				400	1340	88.9	1000	7.8	95.8	3	1560	26.1	0.35
			444			500	1230	91.1	1200	7.8	95.8	3	1560	25.3	0.39
				600		600	1166	92.5	1400	7.8	95.8	3.1	1660	24.6	0.38
					680	710	1142	93.3	1200	7.8	95.8	3.1	1660	23.7	0.41
04	285					335	1711	87.2	1000	7.8	99.8	3.1	1660	20.8	0.22
		440				500	1645	90.8	1200	7.8	99.8	3.1	1660	20.1	0.22
			582			630	1532	92.4	1200	7.8	99.8	3.2	1760	19.3	0.24
				714		769	1480	93.6	1200	7.8	99.8	3.2	1870	18.4	0.25
05	337					400	2015	88.7	1000	7.8	99.8	3.1	1660	17.4	0.16
		532				600	1957	91.8	1200	7.8	99.8	3.2	1760	16.5	0.16
			709			750	1810	93.3	1200	7.8	99.8	3.3	1870	15.8	0.13

TECHNICAL DATA (STANDARD VALUE)

Z 500-4A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power	Rated current	Efficiency	Max. speed	Excitation power	Moment of inertia	Ventilation		Armature circuit	
												Ar Volume	Ar pressure	Voltage reduction	Inductance
	220V	330V	440V	550V	660V	P _N kW	I _N A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /S	H Pa	ΔU V	La mH
01	102					150	884	73.9	300	8.5	110.8	3.1	1660	46.6	1.2
		151				220	790	81.8	500	8.5	110.8	3.2	1760	46.1	1.3
			220			315	813	86.1	650	8.5	110.8	3.2	1760	45.5	1.2
				282		400	808	88.4	1000	8.5	110.8	3.2	1760	44.8	1.2
					285	403	655	91.5	800	8.5	110.8	3.2	1760	44.1	1.7
02	122					185	1038	78.1	350	8.5	110.8	3.2	1660	38.2	0.83
		189				280	975	84.5	600	8.5	110.8	3.1	1660	37.6	0.86
			258			375	950	88	800	8.5	110.8	3.2	1760	37.2	0.86
				337		475	934	90.1	1000	8.5	110.8	3.2	1760	36.2	0.83
					405	560	915	91.5	1200	8.5	110.8	3.2	1760	35.4	0.85
03	171					250	1339	82.5	500	8.5	113.2	3.2	1760	29.7	0.46
		265				375	1269	87.8	800	8.5	113.2	3.2	1760	29	0.47
			362			500	1237	90.5	1200	8.5	113.2	3.2	1760	28.2	0.47
				449		600	1172	91.9	1200	8.5	113.2	3.3	1870	27.4	0.5
					551	710	1143	93.1	1200	8.5	113.2	3.3	1870	26.6	0.5
04	220					315	1663	85.7	650	8.5	119.1	3.3	1870	23	0.29
		342				475	1574	90	1000	8.5	119.1	3.3	1870	22.2	0.29
			474			630	1539	91.9	1200	8.5	119.1	3.3	1870	20.5	0.29
				594		750	1450	93.1	1200	8.5	119.1	3.4	1870	20.6	0.3
05	260					395	1908	87.6	800	8.5	119.1	3.3	1870	19.2	0.21
		405				560	1837	91.1	1200	8.5	119.1	3.4	1970	18.6	0.21
			544			710	1720	92.8	1200	8.5	119.1	3.4	1970	17.7	0.2

TECHNICAL DATA (STANDARD VALUE)

Z 560-2A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ar Volume Q M ³ /S	Ar pressure H Pa	Voltage reduction ΔU V	Inductance L_a mH
	220V	330V	440V	550V	660V										
01	156					200	1116	78.9	500	8	120.4	3.3	1310	37.2	0.6
		248				315	1095	85.3	800	8	120.4	3.3	1310	36.6	0.58
			341			425	1074	88.5	1000	8	120.4	3.4	1380	36.1	0.57
				435		530	1053	90.3	1200	8	120.4	3.5	1450	35.6	0.57
					530	630	1030	91.6	1200	8	120.4	3.6	1530	34.6	0.58
02	192					250	1338	82.7	700	8	119.6	3.2	1240	29.6	0.41
		296				375	1273	87.6	1000	8	119.6	3.3	1310	29	0.42
			404			500	1245	90	1200	8	119.6	3.4	1380	28.3	0.42
				525		630	1235	91.7	1200	8	119.6	3.5	1450	27.6	0.41
					645	750	1212	92.8	1200	8	119.6	3.6	1530	26.8	0.4
03	247					315	1653	84.8	800	8	119.6	3.5	1450	25.1	0.26
		383				475	1592	89.1	1200	8	119.6	3.6	1530	24.3	0.26
			526			630	1552	91.2	1200	8	119.6	3.8	1690	23.6	0.26
				695		800	1557	92.6	1200	8	119.6	3.9	1770	22.7	0.24
					820	900	1451	93.2	1200	8	119.6	4	1860	21.7	0.26
04	312					400	2037	87.8	1000	8	126.3	3.5	1450	19.2	0.17
		488				600	1974	91	1200	8	126.3	3.6	1530	18.7	0.16
			640			750	1829	92.3	1200	8	126.3	3.8	1690	18	0.18
				816		900	1740	93.3	1200	8	126.3	4	1860	17.1	0.18

TECHNICAL DATA (STANDARD VALUE)

Z 560-3A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation		Armature circuit	
												Ar Volume Q M ³ /S	Ar pressure H Pa	Voltage reduction ΔU V	Inductance L_a mH
	220V	330V	440V	550V	660V										
01	117					185	1054	76.8	400	9	140.2	3.6	1530	41.4	0.85
		191				300	1059	83.7	700	9	140.2	3.6	1530	41	0.78
			277			425	1079	87.9	800	9	140.2	3.7	1610	40.2	0.7
				352		530	1058	89.7	1000	9	140.2	3.8	1690	39.6	0.7
					427	630	1034	91.1	1200	9	140.2	3.8	1690	38.8	0.71
02	156					250	1359	81.2	500	9	148.4	3.5	1450	32.3	0.5
		240				375	1285	86.6	800	9	148.4	3.6	1530	32	0.51
			327			500	1250	89.5	1000	9	148.4	3.7	1610	31.4	0.51
				423		630	1550	91.2	1200	9	148.4	3.7	1610	30.7	0.4
					519	750	1218	92.3	1200	9	148.4	3.8	1690	29.9	0.5
03	200					315	1670	83.7	700	9	148.4	3.8	1690	27.6	0.31
		309				475	1601	88.4	1000	9	148.4	3.9	1770	27	0.32
			424			630	1559	90.7	1200	9	148.4	4	1860	26.1	0.32
				559		800	1560	92.3	1200	9	148.4	4.1	1950	25.1	0.3
					656	900	1451	93.1	1200	9	148.4	4.2	2030	24.3	0.33
04	253					400	2056	86.7	800	9	150.1	3.7	1610	21.4	0.2
		394				600	1984	90.4	1200	9	150.1	3.9	1770	20.7	0.2
			515			750	1831	92.1	1200	9	150.1	4	1860	20	0.22
				652		900	1742	93.1	1200	9	150.1	4.1	1950	19.1	0.23

TECHNICAL DATA (STANDARD VALUE)

Z 560-4A															
S. N.	Speed (r/min) at rated voltage (Un)					Rated power	Rated current	Efficiency	Max. speed	Excitation power	Moment of inertia	Ventilation		Armature circuit	
												Ar Volume	Ar pressure	Voltage reduction	Inductance
	220V	330V	440V	550V	660V	P _N kW	I _N A	η %	n _{max} r/min	P _f kW	J kg.m ²	Q M ³ /S	H Pa	ΔU V	La mH
01	95					185	1087	74.3	300	9.9	180.6	3.9	1770	46.6	1.02
		156				300	1076	82.2	500	9.9	180.6	4	1860	46.1	0.94
			210			400	1035	86	600	9.9	180.6	4	1860	45.4	0.97
				269		500	1009	88.5	800	9.9	180.6	4.1	1950	44.7	0.97
					328	600	994	90.1	1000	9.9	180.6	4.1	1950	43.9	0.97
02	112					220	1223	78.9	400	9.9	184.7	3.8	1690	36.7	0.77
		193				375	1301	85.4	700	9.9	184.7	3.9	1770	36.2	0.63
			264			500	1260	88.6	800	9.9	184.7	3.9	1770	35.5	0.63
				341		630	1248	90.5	1000	9.9	184.7	4	1860	34.8	0.63
					390	728	1184	92	1200	9.9	184.7	4.1	1950	34.1	0.69
03	161					315	1693	82.4	500	9.9	184.7	4.1	1950	30.4	0.39
		250				475	1614	87.6	800	9.9	184.7	4	1950	29.8	0.39
			341			630	1564	90.3	1000	9.9	184.7	4.2	2030	29	0.4
				449		800	1565	91.9	1200	9.9	184.7	4.3	2130	28.1	0.38
					525	900	1458	92.6	1200	9.9	184.7	4.4	2220	27.1	0.41
04	193					375	1954	85.3	600	9.9	188.9	4	1860	23.9	0.28
		296				560	1862	89.7	1000	9.9	188.9	4.1	1950	23.3	0.29
			413			750	1841	91.5	1200	9.9	188.9	4.2	2030	22.6	0.28
				520		900	1748	92.7	1200	9.9	188.9	4.3	2130	21.6	0.29

TECHNICAL DATA (STANDARD VALUE)

Z 630-2A												
S. N.	Speed (r/min) at rated voltage (Un)				Rated power P _N kW	Rated current I _N A	Efficiency η %	Max. speed n _{max} r/min	Excitation power P _f kW	Moment of inertia J kg.m ²	Ventilation	
	440V	550V	660V	750V							Ä r	Ä r
											Volume Q M ³ /S	pressure H Pa
01	330				564	1410	91.5	1000	12.4	276	3.8	1140
		425			697	1366	92.8	1200	12.4	276	3.9	1190
			515		821	1330	93.5	1200	12.4	276	4.1	1300
				590	915	1298	94	1200	12.4	276	4.2	1360
02	390				662	1633	92.2	1200	12.4	280	4	1240
		490			811	1581	93.2	1200	12.4	280	4.2	1360
			598		946	1527	93.9	1200	12.4	280	4.4	1480
				677	1045	1479	94.2	1200	12.4	280	4.5	1540
03	420				723	1769	92.9	1100	12.4	282	4	1240
		535			879	1705	93.8	1200	12.4	282	4.2	1360
			650		1019	1638	94.2	1200	12.4	282	4.4	1480
				750	1118	1578	94.5	1200	12.4	282	4.6	1610
04	530				839	2052	92.9	1200	12.4	285	4.5	1540
		665			1010	1960	93.7	1200	12.4	285	4.7	1670
			810		1157	1863	94.1	1200	12.4	285	5	1870

Z 630-3A												
S. N.	Speed (r/min) at rated voltage (Un)				Rated power P _N kW	Rated current I _N A	Efficiency η %	Max. speed n _{max} r/min	Excitation power P _f kW	Moment of inertia J kg.m ²	Ventilation	
	440V	550V	660V	750V							Ä r	Ä r
											Volume Q M ³ /S	pressure H Pa
01	260				561	1403	90.9	800	13.8	310	4.1	1300
		340			697	1372	92.4	1000	13.8	310	4.2	1360
			411		825	1340	93.3	1000	13.8	310	4.3	1420
				474	922	1311	93.8	1000	13.8	310	4.4	1480
02	310				660	1636	91.7	900	13.8	318	4.3	1420
		395			813	1590	93	1000	13.8	318	4.4	1480
			481		954	1542	93.7	1000	13.8	318	4.6	1610
03				545	1058	1498	94.2	1000	13.8	318	4.7	1670
	340				723	1776	92.5	1000	13.8	320	4.3	1420
		431			884	1717	93.6	1000	13.8	320	4.4	1480
			521		1030	1657	94.2	1000	13.8	320	4.6	1610
04				595	1135	1601	94.5	1000	13.8	320	4.7	1670
	425				840	2061	92.6	1000	13.8	325	4.8	1730
		535			1019	1979	93.6	1000	13.8	325	4.9	1800
			650		1177	1894	94.2	1000	13.8	325	5.1	1940

TECHNICAL DATA (STANDARD VALUE)

Z 630-4A												
S. N.	Speed (r/min) at rated voltage (Un)				Rated power P _N kW	Rated current I _N A	Efficiency η %	Max. speed n _{max} r/min	Excitation power P _f kW	Moment of inertia J kg.m ²	Ventilation	
											Ä r Volume Q M ³ /S	Ä r pressure H Pa
	440V	550V	660V	750V								
01	211				555	1400	90	600	15.8	365	4.5	1540
		260			692	1371	91.8	800	15.8	365	4.6	1610
			325		822	1341	92.8	800	15.8	365	4.6	1610
				765	923	1317	93.5	800	15.8	365	4.7	1670
02	247				654	1633	91	800	15.8	370	4.7	1670
		310			810	1592	92.5	800	15.8	370	4.8	1730
			381		955	1549	93.4	800	15.8	370	4.9	1800
				435	1064	1510	94	800	15.8	370	4.9	1800
03	270				717	1771	92	800	15.8	370	4.6	1610
		345			882	1720	93.2	800	15.8	370	4.7	1670
			415		1033	1665	94	800	15.8	370	4.8	1730
				475	1150	1624	94.4	900	15.8	370	4.9	1800
04	335				826	2061	92.2	800	15.8	380	5.1	1940
		425			1021	1989	93.3	800	15.8	380	5.2	2020
			515		1188	1914	94	800	15.8	380	5.3	2090

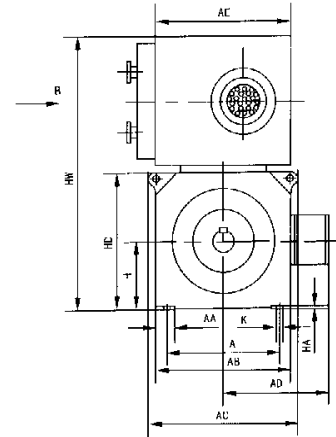
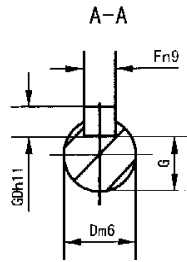
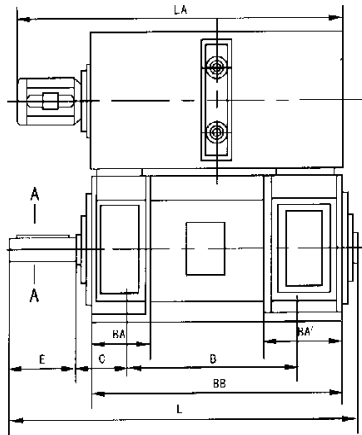
Z 710-2A												
S. N.	Speed (r/min) at rated voltage (Un)				Rated power P _N kW	Rated current I _N A	Efficiency η %	Max. speed n _{max} r/min	Excitation power P _f kW	Moment of inertia J kg.m ²	Ventilation	
											Ä r Volume Q M ³ /S	Ä r pressure H Pa
	330V	440V	550V	660V								
01		230			490	1233	89.1	690	7.6	405	6.5	1000
				335	759	1239	92	1050	7.6	405	6.5	1000
02		230			638	1585	90.6	840	6.8	413	6.5	1000
				430	980	1590	92.8	1000	6.8	413	6.5	1000
03		345			807	1998	91.1	930	6.8	413	6.5	1000
				530	1233	1990	93.4	1000	6.8	413	6.5	1000

TECHNICAL DATA (STANDARD VALUE)

Z 710-3A												
S. N.	Speed (r/min) at rated voltage (Un)				Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation	
											Ä r Volume Q M ³ /S	Ä r pressure H Pa
	330V	440V	550V	660V								
01		180			487	1230	88.6	540	8.7	448	7	1150
				285	755	1236	91.6	855	8.7	448	7	1150
02		225			634	1576	90.3	675	8.7	462	7	1150
				355	977	1586	92.6	900	8.7	462	7	1150
03		280			808	2008	90.6	840	8.7	462	7	1150
				430	1231	1986	93.3	860	8.7	462	7	1150

Z 710-4A												
S. N.	Speed (r/min) at rated voltage (Un)				Rated power P_N kW	Rated current I_N A	Efficiency η %	Max. speed n_{max} r/min	Excitation power P_f kW	Moment of inertia J kg.m ²	Ventilation	
											Ä r Volume Q M ³ /S	Ä r pressure H Pa
	330V	440V	550V	660V								
01		145			482	1229	87.6	435	9.6	530	7.5	1350
				230	750	1236	90.9	690	9.6	530	7.5	1350
02		185			629	1580	89.3	555	9.6	550	7.5	1350
				285	972	1585	92.1	600	9.6	550	7.5	1350
03		225			798	1978	90.7	675	9.6	550	7.5	1350
				360	1237	2001	93	800	9.6	550	7.5	1350

TECHNICAL DATA (STANDARD VALUE)



Type	Main dimensions						Foot dimensions								Shaft extension dimensions					Terminal box dimensions	Coding device dimensions		
	H	L	C	AC	HD	LA	A	B	K	HA	AB	BB	AA	BA	BA	D	E	F	G	GD	AD	HV	AE
Z 355-2	355	1515	254	800	720	1647	610	800	28	35	700	1110	120	280	320	110	210	28	100	16	630	1670	700
Z 355-3		1615				900		1210															
Z 355-4		1715				1000		1310															
Z 355-5		1835				1120		1430															
Z 400-1	400	1560	280	906	810	1722	686	800	35	30	790	1180	115	280	380	120	210	32	109	18	645	1820	790
Z 400-2		1660				900		1280															
Z 400-3		1760				1000		1380															
Z 400-4		1880				1120		1500															
Z 450-1	450	1775	315	1000	910	1887	800	900	35	40	890	1334	120	340	360	140	250	36	128	20	725	1940	890
Z 450-2		1875				1000		1434															
Z 450-3		1995				1120		1554															
Z 450-4		2125				1250		1684															
Z 500-1	500	1860	280	1070	1010	1927	900	1000	42	45	1090	1345	180	320	350	160	300	40	147	22	815	2040	1090
Z 500-2		1980				1120		1465															
Z 500-3		2110				1250		1595															
Z 500-4		2260				1400		1745															
Z 560-2	560	2040	315	1180	1120	2154	1000	1120	48	50	1200	1505	200	300	350	180	300	45	165	25	870	2190	1195
Z 560-3		2170				1250		1635															
Z 560-4		2320				1400		1785															
Z 560-5		2520				1600		1985															
Z 630-2	630	2100	315				1180	1120	48	50	1370					200	350	45	185	25			
Z 630-3		2230				1250																	
Z 630-4		2380				1400																	
Z 710-2	710	2375	355	1880	1430	2500	1400	1250	56	50	1540	1688	290	328	670	250	410	56	230	32	1020	2190	1540
Z 710-3		2525				1400		1838															
Z 710-4		2725				1600		2038															
Z 710-5		2925				1800		2238															

The technical characteristics, dimensions and other data in this catalog are not binding.

Simo Top Group reserves the right to change at any time and without notice.

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