

CST3 SERIES

HIGH EFFICIENCY MOTORS

POWER: 0.75-355kW

Frame: H80-355



Technical characteristics

- Totally enclosed fan-cooled motors are designed according to IEC,GB and other standards.
- The frames are made of cast iron.
- The efficiency value meets the requirements of GB18613-2020 and IEC60034-30 standards.
- Winding designs can support several kinds of voltage and frequency(50HZ or 60HZ).
- Withstand 1.5 times of rated current for 2 minutes (IEC60034-1). Heater can be added to prevent moisture.
- PTC,PT100 and other thermal elements can be chose to protect winding and bearings.

Product advantages

• Efficiency improvement

Now winding deslgns and low loss silicon steel sheets and sheets and advanced manufacture process are applied to decrease the motors loss and improve the efficiency.

• Voltage

According to Class A voltage and frequency tolerance demands in IEC60034-1 standard, the motor's voltage tolerance is 15%, and the frequency tolerance is ±2%.

• Reliable quality and superior characteristics

In order to insure the good insulation and extend the lifetime, standard motors are according to F/B.

• Rated output

Rated out put means it can meet IEC60034-1 standard , continuous working can out put when coolanttemperature(CT) is 40°C and the altitude of working site is under 1000m.Besides, the motors can stand 1.5 times more of rated current within 2 minutes under rated voltage and frequency.

Applications

- Motors can be applied to all kinds of machines, such as machine tool, air compressor, pump, ventilation, reduction gear, transmissi on belt , mining equipment, metallic equipment. However, motors can't be used for flammable,explosive and corrosive working site.

Technical Data

Motor Type	Rated Power	Rated Speed	Efficiency	Power Factor	Current		Torque		Moment of inertia(J)	Approx WT
	kW	RPM	%		400V	690V	Locked Rotor	Pull Out	Kg-m²	Kg
CST3-080M1-02P	0.75	2850	80.7	0.82	1.6	—	2.3	2.3	0.0009	17
CST3-080M2-02P	1.1	2860	82.7	0.83	2.3	—	2.2	2.3	0.0011	18
CST3-080M2-04P	0.75	1435	82.5	0.75	1.7	—	2.3	2.3	0.0015	19
CST3-090S0-02P	1.5	2870	84.2	0.84	3.1	—	2.2	2.3	0.0013	25
CST3-090L0-02P	2.2	2880	85.9	0.85	4.3	—	2.2	2.3	0.0018	27
CST3-090S0-04P	1.1	1420	84.1	0.76	2.5	—	2.3	2.3	0.0025	35
CST3-090L0-04P	1.5	1415	85.3	0.77	3.3	—	2.3	2.3	0.0031	37
CST3-090S0-06P	0.75	925	78.9	0.71	1.9	—	2.0	2.1	0.0033	27
CST3-090L0-06P	1.1	930	81.0	0.73	2.7	—	2.0	2.1	0.0044	30
CST3-100L0-02P	3	2870	87.1	0.87	5.7	—	2.2	2.3	0.0039	40
CST3-100L1-04P	2.2	1450	86.7	0.81	4.5	—	2.3	2.3	0.0067	44
CST3-100L2-04P	3	1450	87.7	0.82	6.0	—	2.3	2.3	0.0082	47
CST3-100L0-06P	1.5	960	82.5	0.73	3.6	—	2.0	2.1	0.0101	43
CST3-112M0-02P	4	2900	88.1	0.88	7.4	4.3	2.2	2.3	0.0056	49
CST3-112M0-04P	4	1445	88.6	0.82	7.9	4.6	2.2	2.3	0.0117	54
CST3-112M0-06P	2.2	955	84.3	0.74	5.1	—	2.0	2.1	0.0160	39
CST3-112M0-08P	1.5	700	79.7	0.70	3.9	—	1.8	2.0	0.0133	39
CST3-132S1-02P	5.5	2890	89.2	0.88	10.1	5.9	2.0	2.3	0.0125	66
CST3-132S2-02P	7.5	2895	90.1	0.88	13.7	7.9	2.0	2.3	0.0147	72
CST3-132S0-04P	5.5	1455	89.6	0.83	10.7	6.2	2.0	2.3	0.0249	67
CST3-132M0-04P	7.5	1450	90.4	0.84	14.3	8.3	2.0	2.3	0.0311	79
CST3-132S0-06P	3	960	85.6	0.74	6.8	—	2.0	2.1	0.0316	73
CST3-132M1-06P	4	970	86.8	0.74	9.0	5.2	2.0	2.1	0.0417	74
CST3-132M2-06P	5.5	970	88.0	0.75	12.0	7.0	2.0	2.1	0.0517	89
CST3-132S0-08P	2.2	715	81.9	0.71	6.1	3.2	1.8	2.0	0.0290	62
CST3-132M0-08P	3	715	83.5	0.73	7.1	4.1	1.8	2.0	0.0382	66
CST3-160M1-02P	11	2930	91.2	0.89	19.6	11.3	2.0	2.3	0.0421	106
CST3-160M2-02P	15	2920	91.9	0.89	26.5	15.3	2.0	2.3	0.0535	115
CST3-160L0-02P	18.5	2920	92.4	0.89	32.5	18.8	2.0	2.3	0.0615	131
CST3-160M0-04P	11	1465	91.4	0.85	20.4	11.8	2.2	2.3	0.0841	114
CST3-160L0-04P	15	1465	92.1	0.86	27.3	15.8	2.2	2.3	0.1135	140
CST3-160M0-06P	7.5	960	89.1	0.79	15.4	8.9	2.0	2.1	0.0910	104
CST3-160L0-06P	11	965	90.3	0.80	22.0	12.7	2.0	2.1	0.1302	130

Technlcal Data

Motor Type	Rated Power	Rated Speed	Efficiency	Power Factor	Current		Torque		Moment of inertia(J)	Approx WT
	kW	RPM	%		400V	690V	Locked Rotor	Pull Out	Kg-m ²	Kg
CST3-160M1-08P	4	715	84.8	0.73	9.3	5.4	1.9	2.0	0.0650	94
CST3-160M2-08P	5.5	720	86.2	0.74	12.4	7.2	1.9	2.0	0.0880	106
CST3-160L0-08P	7.5	720	87.3	0.75	16.5	9.6	1.9	2.0	0.1229	128
CST3-180M0-02P	22	2940	92.7	0.89	38.5	22.3	2.0	2.3	0.0969	174
CST3-180M0-04P	18.5	1465	92.6	0.86	33.5	19.4	2.0	2.3	0.1537	176
CST3-180L0-04P	22	1465	93.0	0.86	39.7	23.0	2.0	2.3	0.1842	192
CST3-180L0-06P	15	975	91.2	0.81	29.3	17.0	2.0	2.1	0.2286	176
CST3-180L0-08P	11	725	88.6	0.75	23.9	13.9	2.0	2.0	0.2059	170
CST3-200L1-02P	30	2950	93.3	0.89	52.1	30.2	2.0	2.3	0.1464	230
CST3-200L2-02P	37	2950	93.7	0.89	64.0	37.1	2.0	2.3	0.1735	248
CST3-200L0-04P	30	1465	93.6	0.86	53.8	31.2	2.0	2.3	0.2852	249
CST3-200L1-06P	18.5	975	91.7	0.81	36.0	20.8	2.0	2.1	0.3428	224
CST3-200L2-06P	22	975	92.2	0.81	42.5	24.6	2.0	2.1	0.4139	244
CST3-200L0-08P	15	730	89.6	0.76	31.8	18.4	2.0	2.0	0.3250	230
CST3-225M0-02P	45	2960	94.0	0.90	76.8	44.5	2.0	2.3	0.2684	299
CST3-225S0-04P	37	1475	93.9	0.86	66.1	38.3	2.0	2.3	0.5006	298
CST3-225M0-04P	45	1475	94.2	0.86	80.2	46.5	2.0	2.3	0.5920	326
CST3-225M0-06P	30	980	92.9	0.83	56.2	32.6	2.0	2.1	0.5948	296
CST3-225S0-08P	18.5	730	90.1	0.76	39.0	22.6	1.9	2.0	0.5380	272
CST3-225M0-08P	22	730	90.6	0.78	44.9	26.0	1.9	2.0	0.6290	294
CST3-250M0-02P	55	2960	94.3	0.90	93.5	54.2	2.0	2.3	0.3543	391
CST3-250M0-04P	55	1475	94.6	0.86	97.6	56.6	2.2	2.3	0.6841	393
CST3-250M0-06P	37	980	93.3	0.84	68.6	39.7	2.0	2.1	0.9089	383
CST3-250M0-08P	30	735	91.3	0.79	60.0	34.8	1.9	2.0	0.8090	370
CST3-280S0-02P	75	2965	94.7	0.90	127.0	73.6	1.8	2.3	0.6632	544
CST3-280M0-02P	90	2965	95.0	0.90	151.9	88.1	1.8	2.3	0.7560	591
CST3-280S0-04P	75	1480	95.0	0.88	129.5	75.1	2.0	2.3	1.3885	576
CST3-280M0-04P	90	1480	95.2	0.88	155.1	89.9	2.0	2.3	1.6833	658
CST3-280S0-06P	45	980	93.7	0.85	81.6	47.3	2.0	2.0	1.6704	531
CST3-280M0-06P	55	980	94.1	0.86	98.1	56.9	2.0	2.0	2.0295	601
CST3-280S0-08P	37	735	91.8	0.79	73.6	42.7	1.9	2.0	1.5470	475
CST3-280M0-08P	45	735	92.2	0.79	89.2	51.7	1.9	2.0	1.8570	555
CST3-315S0-02P	110	2975	95.2	0.90	185.3	107.4	1.8	2.3	1.2523	819

Technlcal Data

Motor Type	Rated Power	Rated Speed	Efficiency	Power Factor	Current		Torque		Moment of inertia(J)	Approx WT
	kW	RPM	%		400V	690V	Locked Rotor	Pull Out	Kg-m ²	Kg
CST3-315M0-02P	132	2975	95.4	0.90	221.9	128.6	1.8	2.3	1.3942	934
CST3-315L1-02P	160	2975	95.6	0.91	265.5	153.9	1.8	2.3	1.5361	1009
CST3-315L2-02P	200	2975	95.8	0.91	332.6	192.8	1.8	2.2	1.9146	1084
CST3-315S0-04P	110	1480	95.4	0.89	187.0	108.4	2.0	2.2	2.7112	854
CST3-315M0-04P	132	1480	95.6	0.89	223.9	129.8	2.0	2.2	3.0065	934
CST3-315L1-04P	160	1480	95.8	0.89	270.9	157.0	2.0	2.2	3.7518	999
CST3-315L2-04P	200	1480	96.0	0.90	334.1	193.7	2.0	2.2	4.6978	1194
CST3-315S0-06P	75	980	94.6	0.84	136.2	79.0	2.0	2.0	2.9249	744
CST3-315M0-06P	90	980	94.9	0.85	161.0	93.4	2.0	2.0	3.4551	854
CST3-315L1-06P	110	980	95.1	0.85	196.4	113.9	2.0	2.0	4.3925	1014
CST3-315L2-06P	132	980	95.4	0.86	232.2	134.6	2.0	2.0	5.3503	1084
CST3-315S0-08P	55	740	92.5	0.81	106.0	61.4	1.8	2.0	3.6820	905
CST3-315M0-08P	75	740	93.1	0.81	143.6	83.2	1.8	2.0	4.9590	981
CST3-315L1-08P	90	740	93.4	0.82	169.6	98.3	1.8	2.0	5.8250	1071
CST3-315L2-08P	110	740	93.7	0.82	206.6	119.8	1.8	2.0	6.7530	1160
CST3-355M0-02P	250	2975	95.8	0.91	412.1	238.9	1.6	2.2	2.8042	1625
CST3-355L1-02P	280	2975	95.8	0.91	463.6	268.8	1.6	2.2	2.8042	1625
CST3-355L2-02P	315	2975	95.8	0.91	521.5	302.3	1.6	2.2	3.2565	1750
CST3-355L3-02P	355	2975	95.8	0.91	587.8	340.7	1.6	2.2	3.2565	1800
CST3-355M0-04P	250	1485	96.0	0.90	417.7	242.1	2.0	2.2	7.3160	1625
CST3-355L1-04P	280	1485	96.0	0.90	467.8	271.2	2.0	2.2	7.3160	1625
CST3-355L2-04P	315	1485	96.0	0.90	526.2	305.1	2.0	2.2	8.0550	1700
CST3-355L3-04P	355	1485	96.0	0.90	593.1	343.8	2.0	2.2	8.9863	1865
CST3-355M1-06P	160	990	95.6	0.86	280.9	162.8	1.8	2.0	7.7455	1600
CST3-355M2-06P	185	990	95.8	0.86	324.1	187.9	1.8	2.0	9.2033	1650
CST3-355M3-06P	200	990	95.8	0.87	346.4	200.8	1.8	2.0	9.2033	1720
CST3-355L1-06P	220	990	95.8	0.87	381.0	220.9	1.8	2.0	10.2967	1760
CST3-355L2-06P	250	990	95.8	0.87	433.0	251.0	1.8	2.0	10.2967	1820
CST3-355L3-06P	280	990	95.8	0.87	484.9	281.1	1.8	2.0	10.8434	1900
CST3-355M1-08P	132	745	94	0.82	247.2	143.3	1.8	2.0	12.9	1800
CST3-355M2-08P	160	745	94.3	0.82	298.7	173.1	1.8	2.0	14.3	1890
CST3-355L1-08P	180	745	94.5	0.82	335.3	194.4	1.8	2.0	15	1970
CST3-355L2-08P	200	745	94.6	0.83	367.7	213.1	1.8	2.0	15.9	2040

Technical Data

Motor Type	Rated Power	Rated Speed	Efficiency	Power Factor	Current		Torque		Moment of inertia(J)	Approx WT
	kW	RPM	%		400V	690V	Locked Rotor	Pull Out	Kg-m ²	Kg
CST3-400F1-02P	355	2985	95.8	89	601	348	150	200	5.9	2550
CST3-400F2-02P	400	2985	95.8	89	677	393	150	200	6.4	2630
CST3-400F3-02P	450	2985	95.8	89	762	442	150	200	6.9	2810
CST3-400F4-02P	500	2985	95.8	89	846	491	150	200	7.4	3025
CST3-400F4-02P	560	2985	95.8	89	948	550	150	200	7.9	3075
CST3-400F5-02P	630	2985	95.8	89	1067	618	150	200	8.9	3150
CST3-400F1-04P	355	1485	96	88	607	352	110	200	14.2	2780
CST3-400F2-04P	400	1485	96	88	683	396	110	200	14.9	2980
CST3-400F3-04P	450	1485	96	88	769	446	110	200	15.9	3090
CST3-400F4-04P	500	1485	96	88	854	495	110	200	17.8	3190
CST3-400F5-04P	560	1485	96	88	957	555	110	200	19.7	3310
CST3-400F6-04P	630	1485	96	88	1076	624	110	200	20.5	3420
CST3-400F1-06P	315	990	95.8	85	558	324	120	200	23.3	2900
CST3-400F2-06P	355	990	95.8	85	629	365	120	200	25.1	3035
CST3-400F3-06P	400	990	95.8	85	709	411	120	200	27	3150
CST3-400F4-06P	450	990	95.8	85	798	462	120	200	29.4	3360
CST3-400F5-06P	500	990	95.8	85	886	514	120	200	30	3580
CST3-400F1-08P	250	742	94.7	81	470	273	110	200	26.7	2780
CST3-400F2-08P	280	742	94.8	81	526	305	110	200	28.9	3000
CST3-400F3-08P	315	742	94.9	81	591	343	110	200	31.1	3100
CST3-400F4-08P	355	742	95.1	81	665	386	110	200	33.7	3310
CST3-400F5-08P	400	742	95.2	81	749	434	110	200	35.6	3590
CST3-400F1-10P	180	590	94.0	78	354	205	110	200	25.2	2680
CST3-400F2-10P	200	590	94.1	78	393	228	110	200	27.1	2810
CST3-400F3-10P	220	590	94.2	78	432	251	110	200	28.6	3060
CST3-400F4-10P	250	592	94.3	78	491	284	110	200	30.1	3280
CST3-400F5-10P	280	592	94.5	78	548	318	110	200	32.8	3410
CST3-400F1-12P	160	492	94.4	72	340	197	100	200	27.4	2750
CST3-400F2-12P	180	492	94.5	72	382	221	100	200	28.6	2880
CST3-400F3-12P	200	492	94.6	72	424	246	100	200	29.8	3100
CST3-400F4-12P	220	492	94.7	72	466	270	100	200	31.9	3290
CST3-400F5-12P	250	492	94.8	72	529	306	100	200	33.8	3450