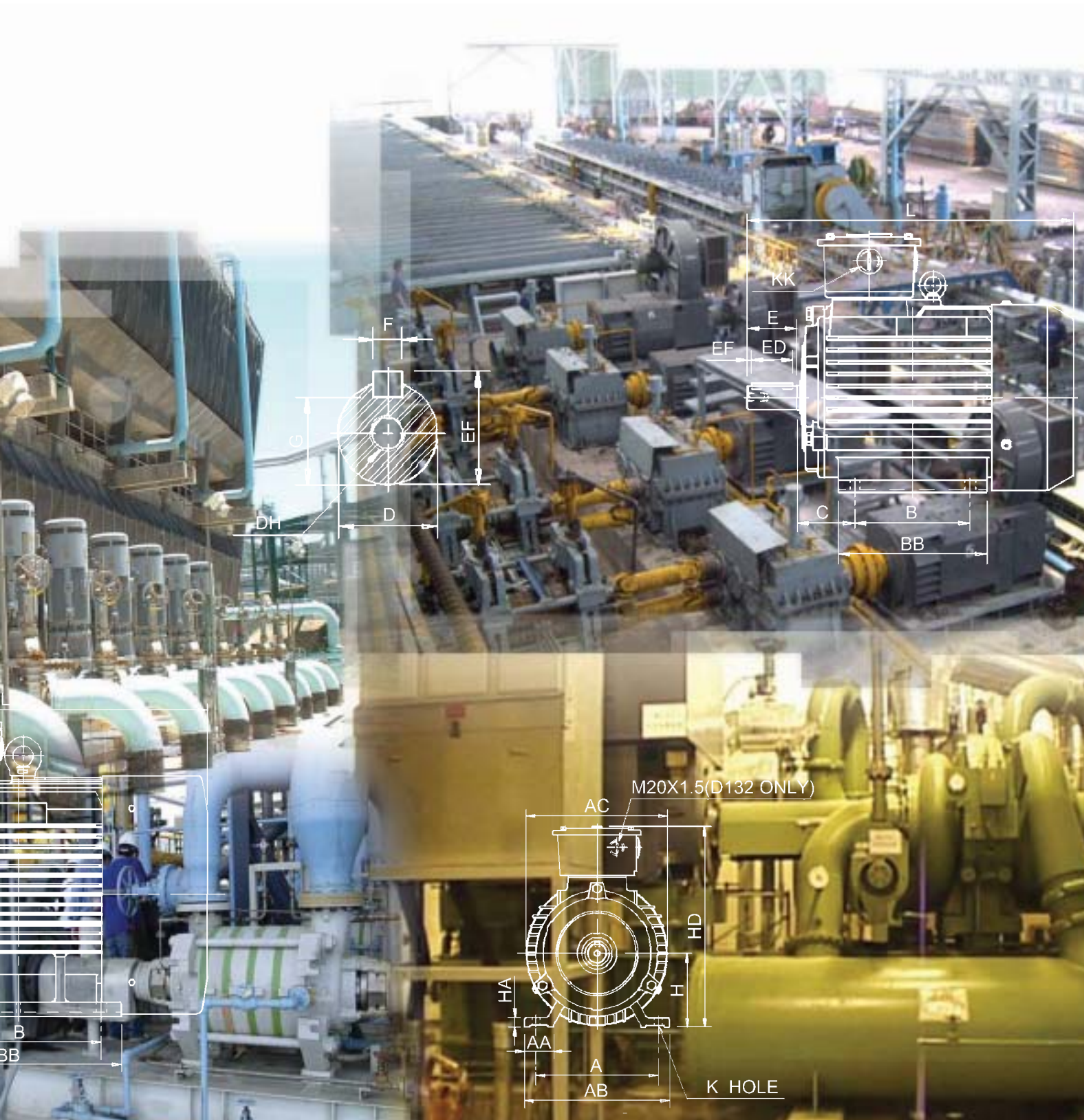




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IEC Low Voltage Motor

CAST IRON



东元集团简介

东元电机创立于1956年，初期从事电动机生产，历经了半个世纪的风雨，至今已跨入重电、家电、信息、通讯、电子、关键零组件、基础工程建设、金融投资及餐饮等多元化的发展领域，东元电机集团目前分布在全球员工达万人以上，事业版图已由台湾拓展至亚洲，美洲和欧洲，成为知名的世界级集团之一。



在电机领域，继1995年并购美国西屋电机公司以后，有了长足的发展。目前在全球的电动机生产厂有：美国的德州、英国的曼彻斯特、澳大利亚的悉尼、新加坡、马来西亚、印尼、泰国、台湾的中坜市和淡水市、祖国大陆的无锡市、苏州市和南昌市。东元电机始终贯彻“品质第一”的理念，产制符合世界各国国家标准规范的产品，拥有承制功率从1/4HP到60,000HP，电压可达13.8kV的电动机，成为世界电动机的主要供货商。

无锡东元电机有限公司成立于2002年4月，是专业研制、生产、销售各类电动机、变频器的企业。公司内设有全球研发中心，FA事业部，SA事业部。全球研发中心负责重大新系列产品的开发设计。FA事业部产品为中心高63~630mm，其功率范围为1/4~4000HP，电压等级为220~13800V三相异步电动机。SA事业部的产品为功率范围为0.4kW~375 kW，电压等级为200~600V的变频器。

Contents

Since its founding in 1956, Teco Electric & Machinery Co., Ltd has engaged in the manufacture of industrial motor at the beginning. After rollercoaster ride for half a century, it has successfully diversified into a conglomerate with world business operations including heavy electrical, home alliances, telecommunications equipment, IT system, electromechanical components, finance investment and food services. TECO, a famous globalize enterprise group, has about 30 subsidiaries and affiliations across Asia, America and Europe, and the total employee amount is over tens of thousands.

In motor industry, TECO group has obtained quiet great progress, besides merged Westinghouse motor company of USA in 1995. Now there are several manufactories around the world, such as Texas of USA, Manchester of UK, Sydney of Australia, Singapore, Malaysia, Indonesia, Thailand, Chung-li and Tan-shui of Taiwan and Wuxi, Suzhou and Nanchang of mainland China. TECO has been designing and manufacturing products with our “Quality-First” commitment in mind to meet and exceed international industrial standards, such as CNS, JIS, BS, IEC, NEMA, IEEE, CSA and UL. Our product line includes low, medium and high voltage (up to 13,800 volts) premium efficiency and high performance motors, ranging from 1/4 HP to 100,000 HP.

Wuxi Teco Electric & Machinery Co., Ltd which was founded in April of 2002 is engaged in research, design, production and sale several kinds of motors and inverters. We set up global research & development center, FA division and SA division. The global research & development center is in charge of researching and designing the important and new range productions. FA division produces the 3-phase asynchronous motors whose shaft center height are from 63mm to 630mm, ranging from 1/4 HP to 4000HP and the voltage are 220V to 13800V. SA division produces the inverters with the ranging of 0.4kw to 375kw and the voltage between 200V and 600V.

技术数据

- 额定电压: 380V
- 额定频率: 50Hz
- 输出功率: 0.18~315kW
- 工作制: 连续工作制--S1 (S.F. 1.0)
- 机座号: 80M~355L
- 防护等级: IP55
- 冷却方式: IC411
- 绝缘等级: F级绝缘.
- 温升: 不超过80K (2,4P F#315L2, F#355 不超过105K)
- 安装方式: AEEV系列为IMB3; AEEVLC系列为IMB35; AEUV系列为IMB5
- AEEV系列电动机参数和安装尺寸见表1和表2
- AEEVLC系列电动机参数和安装尺寸见表1和表3
- AEUV系列电动机参数和安装尺寸见表1和表4

Technical data

- Rated voltage: 380V
- Rated frequency: 50Hz
- Output range: 0.18~315kW
- Time duty: Continuous S1 (S.F 1.0)
- Frame Nos.: 80M~355L
- Protection enclosure: Totally enclosed (IP55)
- Cooling method: Self external fan, Surface cooling (IC411)
- Stator insulation: Class F insulation system
- Temperature rise: Not to exceed 80K (2,4P F#:315L2, F#:355 not to exceed 105K)by resistance method
- Mounting: AEEV series IMB3, AEEVLC series IMB35, AEUV series IMB5
- For typical performance and dimensions of AEEV series motors see table 1 and table 2
- For typical performance and dimensions of AEEVLC series motors see table 1 and table 3
- For typical performance and dimensions of AEUV series motors see table 1 and table 4

适用条件

- 电源条件: 电压波动率 $\pm 10\%$ 以内,频率波动率 $\pm 5\%$ 以内
综合波动率 $\pm 10\%$ 以内,但频率波动率在 $\pm 5\%$ 以内
- 使用场所: 有棚、无危险气体环境
- 环境温度: $-15\sim 40^{\circ}\text{C}$
- 环境湿度: 相对湿度90%以下(但不能凝结)
- 海拔高度: 海拔1000m以下
- 传动方式: 皮带轮传动,但2极45kW和4极160kW及以上使用连轴器传动
- 旋转方向: 可双向旋转.
当电源相序与电动机出线端标志字母一致时,面向轴伸端看为顺时针方向旋转.
- 起动方式: 全压直接起动或Y- Δ 起动

Application

- Power source conditions: Rate of voltage variation between $\pm 10\%$, Rate of frequency variation between $\pm 5\%$. Rate of voltage and frequency variation between $\pm 10\%$, but frequency variation does not exceed $\pm 5\%$
- Place: Shadow, Non-hazardous
- Ambient temperature: $-15\sim 40^{\circ}\text{C}$
- Relative humidity: Less than 90%RH(Non-condensation)
- Altitude: Less than 1,000 meters
- Drive method: Belt service, However 2 pole 45kW & above, 4 pole 160kW & above for direct coupling only
- Direction of rotation: Bi-directional rotation
Clockwise when facing the drive end side and the alphabetical sequence of the terminal letters of a phase group corresponds with the time sequence of the terminal voltages
- Method of starting: Full voltage direct on line or Y- Δ starting

AEEV、AEEVAL和AEUV系列电动机特点

- AEEV, AEEVLC, AEUV系列电动机是针对中国大陆市场而开发的产品。
- 其外形和安装尺寸完全与Y2系列一致。
- 效率符合欧盟II级效率
- IP55防护结构, 防尘, 防水及油沫, 符合国际标准, 安全更具保障性。
- 采用东元F级绝缘结, 耐热度高, 抗电冲击强, 绝缘寿命长, 在恶劣环境下也能胜任。
- 使用进口品牌之轴承, 国内著名钢厂之硅钢片, 性能更具保障。
- 规范化的设计、优质的材料、先进的加工设备和完善的质量保证体系, 使得产品的内在质量远高于Y2产品, 这些表现在效率高、振动小、噪声低、安全可靠。



- These developed product, range AEEV、AEEVAL and AEUV, are directly target at mainland China market.
- The shape and installation size are the same as the range Y2 totally.
- The efficiency is accord with EU II.
- The protection enclosure is IP55, protect dust, water and oil, which is accord to international standards and safety safeguarded further.
- The stator insulation is class F of TECO insulation system with good heatproof quality, strong resistance to electrical sparks, long insulation life and can be competent in the bad environment.

These ranges use bearing imported from famous brand company and the silicon steel sheet are come from famous national steel company.

Standardized design, high quality material, advanced processing equipment and consummation quality guarantee system, all of these can make sure the internal quality of there ranges are more high than range Y2 and it is embody in the high efficiency, low vibrate and reliable safety.

表1 Table 1

输出 Output		满载 转速 Full Load rpm	机 座 号 Frame	效率 EFF.	功率因数 P.F.	电流 Current		转矩 Torque			转子 惯量 Rotor GD2 kg-m ²	噪声 Noise Sound No- Load dB(A)	振动 Vibration Speed mm/sec	重量 Approx Weight kg
kW	HP			满载 Full Load %	满载 Full Load %	满载 Full Load A	堵转 Locked Rotor A	满载 Full Load kg-m	堵转 Locked Rotor %FLT	最大 Pull Out %FLT				
0.18	0.25	685	80M	59.0	65	0.71	3.3	0.256	180	190	0.008	52	1.8	16
0.25	0.33	690	80M	60.0	63	1	3.3	0.353	180	200	0.01	52	1.8	17
0.37	0.5	910	80M	63.0	73.5	1.21	4.7	0.396	190	200	0.007	54	1.8	15
		695	90S	67.0	63.5	1.32	4	0.518	180	200	0.016	56	1.8	24
0.55	0.75	1400	80M	73.0	78	1.47		0.382	240	230	0.006	58	1.8	15
		910	80M	65.0	69.5	1.85	4.7	0.588	190	210	0.009	54	1.8	16
		690	90L	68.0	64	1.92	4	0.776	180	200	0.02	56	1.8	26
0.75	1	2855	80M	78.3	85.5	1.7	6.1	0.256	220	230	0.003	67	1.8	15
		1395	80M	75.4	78.5	1.93	6	0.523	230	230	0.007	58	1.8	16
		930	90S	73.2	72	2.16	5.6	0.785	210	210	0.015	57	1.8	24
		700	100L	72.5	65	2.42	4	1.043	180	220	0.026	59	1.8	33
1.1	1.5	2845	80M	79.6	87	2.41	7	0.376	220	230	0.004	67	1.8	16
		1395	90S	76.2	80	2.74	6	0.767	230	230	0.009	61	1.8	22
		930	90L	75.2	70.5	3.15	5.6	1.151	210	220	0.021	57	1.8	27
		690	100L	73.0	70	3.27	5	1.551	180	200	0.034	59	1.8	34
1.5	2	2840	90S	79.7	87	3.29	7	0.514	220	230	0.006	72	1.8	22
		1400	90L	79.0	80	3.61	6	1.043	230	230	0.013	61	1.8	27
		935	100L	78.0	76.5	3.82	6.4	1.561	210	220	0.037	61	1.8	36
		700	112M	75.6	69.5	4.34	5	2.085	180	230	0.058	61	1.8	39
2.2	3	2840	90L	81.8	87.5	4.67	7	0.754	220	240	0.008	72	1.8	25
		1420	100L	81.1	83.5	4.94	7	1.507	230	240	0.024	64	1.8	34
		945	112M	81.8	76	5.38	6.4	2.265	210	220	0.068	64	1.8	43
		710	132S	78.0	72	5.95	6	3.015	180	220	0.121	64	1.8	62
3	4	2870	100L	83.5	89.5	6.1	7.5	1.017	220	230	0.013	76	1.8	33
		1420	100L	82.6	84	6.57	7	2.056	230	250	0.032	64	1.8	35
		965	132S	82.0	76	7.31	6.5	3.025	210	260	0.121	69	1.8	56
		710	132M	80.8	76	7.42	6	4.111	180	210	0.164	64	1.8	66
4	5.5	2880	112M	85.7	92	7.71	7.5	1.351	220	240	0.024	77	1.8	40
		1435	112M	84.7	83	8.64	7	2.712	230	250	0.052	65	1.8	44
		965	132M	83.5	77.5	9.39	6.5	4.033	210	260	0.164	69	1.8	71
		720	160M	82.3	73	10.1	6	5.406	190	230	0.265	68	2.8	94
5.5	7.5	2915	132S	87.0	90.5	10.6	7.5	1.836	220	270	0.047	80	1.8	59
		1440	132S	86.5	84.5	11.4	7	3.716	230	290	0.106	71	1.8	61
		965	132M	84.6	79.5	12.4	6.5	5.546	210	260	0.221	69	1.8	75
		720	160M	84.5	73.5	13.5	6	7.433	200	240	0.374	68	2.8	106
7.5	10	2905	132S	87.3	91.5	14.3	7.5	2.512	220	250	0.054	80	1.8	62
		1450	132M	87.6	75	17.3	7.2	5.033	240	340	0.146	71	1.8	73
		970	160M	86.0	74	17.9	6.5	7.523	200	290	0.374	73	2.8	108
		720	160L	85.5	75.5	17.7	6	10.14	200	240	0.53	68	2.8	128
11	15	2935	160M	88.8	90.5	20.8	7.5	3.647	220	260	0.167	86	2.8	107
		1460	160M	88.5	85.5	22.1	7	7.331	220	2.9	0.332	75	2.8	113
		970	160L	87.8	77	24.7	6.5	11.03	200	280	0.53	73	2.8	131
		720	180L	87.5	76	25.1	6.6	14.76	200	220	0.864	70	2.8	170
15	20	2935	160M	89.8	91	27.9	7.5	4.973	220	260	0.204	86	2.8	117
		1465	160L	90.3	85.5	29.5	7.5	9.962	220	310	0.442	75	2.8	133
		975	180L	89.5	82	31.1	7	14.97	200	250	0.89	73	2.8	171
		730	200L	89.1	75.5	33.9	6.6	19.99	200	230	1.456	73	2.8	220
18.5	25	2935	160L	91.1	92	33.5	7.5	6.133	220	270	0.255	86	2.8	134
		1470	180M	90.7	86	36	7.5	12.25	220	260	0.607	76	2.8	167
		980	200L	90.1	83	37.6	7	18.37	210	240	1.331	76	2.8	216
		730	225S	90.1	75.5	41.3	6.6	24.66	190	230	2.18	73	2.8	270
22	30	2950	180M	90.6	92	40.1	7.5	7.256	200	260	0.348	89	2.8	169
		1470	180L	91.5	86	42.5	7.5	14.56	220	270	0.679	76	2.8	181
		975	200L	90.6	84.5	43.7	7	21.95	210	230	1.539	76	2.8	225
		730	225M	90.6	77.5	47.6	6.6	29.32	190	220	2.588	73	2.8	295

續表1 Table 1 (continued)

输出 Output		满载 转速 Full Load rpm	机 座 号 Frame	效率 EFF.	功率因数 P.F.	电流 Current		转矩 Torque			转子 惯量 Rotor GD2 kg-m ²	噪声 Noise Sound No- Load dB(A)	振动 Vibration Speed mm/sec	重量 Approx Weight kg
kW	HP			满载 Full Load %	满载 Full Load %	满载 Full Load A	堵转 Locked Rotor A	满载 Full Load kg-m	堵转 Locked Rotor %FLT	最大 Pull Out %FLT				
30	40	2950	200L	91.4	91.5	54.5	7.5	9.895	200	230	0.558	92	2.8	220
		1475	200L	92.0	87	56.9	7.2	19.79	220	260	1.111	79	2.8	232
		985	225M	91.8	82.5	60.2	7	29.63	200	220	2.452	76	2.8	286
		735	250M	90.8	78.5	63.9	6.6	39.71	190	240	3.938	75	3.5	370
37	50	2950	200L	92.1	92	66.3	7.5	12.2	200	240	0.68	92	2.8	239
		1480	225S	92.7	87.5	69.3	7.2	24.33	220	230	1.911	81	2.8	287
		980	250M	92.0	87.5	69.8	7	36.74	210	250	3.741	78	3.5	380
45	60	735	280S	91.5	80.5	76.3	6.6	48.98	190	210	6.333	76	3.5	475
		2960	225M	92.7	91.5	80.6	7.5	14.79	200	240	0.977	92	2.8	297
		1480	225M	93.3	87.5	83.7	7.2	29.58	220	250	2.335	81	2.8	322
		985	280S	92.5	87.5	84.5	7	44.45	210	250	5.985	80	3.5	465
55	75	740	280M	92.0	79.5	93.5	6.6	59.17	190	230	7.813	76	3.5	555
		590	315S	92.0	76	97.8	6	74.21	150	200	15.91	82	3.5	890
		2970	250M	93.0	91	99	7.5	18.02	200	240	1.397	93	3.5	380
		1480	250M	93.3	87.5	102	7.2	36.16	220	230	2.755	83	3.5	385
75	100	985	280M	92.8	88	102	7	54.33	210	250	7.149	80	3.5	540
		740	315S	92.8	82	110	6.6	72.32	180	210	15.946	82	3.5	905
		590	315M	92.5	75	120	6	90.7	150	200	19.373	82	3.5	965
		2975	280S	93.6	92	132	7.5	24.53	200	240	2.268	94	3.5	510
		1485	280S	93.6	88.5	138	7.2	49.14	220	230	5.123	86	3.5	510
90	125	990	315S	93.5	86	142	7	73.71	200	220	14.433	85	3.5	861
		740	315M	93.5	82.5	148	6.6	98.61	180	210	21.794	82	3.5	981
		590	315L	93.0	76.5	160	6	123.7	150	200	25.946	82	3.5	1040
		2975	280M	94.1	92.5	157	7.5	29.44	200	240	2.636	94	3.5	540
		1485	280M	94.4	88	165	7.2	58.97	220	260	6.433	86	3.5	600
110	150	990	315M	93.9	86.5	168	7	88.45	200	230	17.084	85	3.5	940
		740	315L	93.8	82.5	177	6.6	117.5	180	220	25.946	82	3.5	1070
		590	315L	93.3	76.5	192	6	148.4	150	200	30.433	82	3.5	1130
		2980	315S	94.4	92	192	7.1	35.92	180	250	5.89	96	3.5	920
		1485	315S	94.7	89.5	197	6.9	72.07	210	220	12.412	93	3.5	930
132	180	990	315L	94.3	87	204	6.7	108.1	200	220	21.208	85	3.5	1110
		740	315L	94.1	81.5	218	6.4	144.6	180	210	30.433	82	3.5	1160
		590	355M	93.4	79	227	6	181.4	130	200	44.226	90	3.5	1620
		2980	315M	94.8	92.5	229	7.1	43.1	180	240	6.597	96	3.5	970
		1485	315M	94.8	89.5	236	6.9	86.49	210	220	13.963	93	3.5	1010
160	215	990	315L	94.7	87	243	6.7	129.7	200	230	24.448	85	3.5	1175
		740	355M	94.4	81.5	261	6.4	173.6	180	200	46.553	90	3.5	1700
		590	355M	93.6	78	275	6	217.7	130	200	52.955	90	3.5	1730
		2975	315L	95.0	93	275	7.1	51.79	180	220	7.421	99	3.5	1080
		1485	315L	95.0	90	284	6.9	104.8	210	230	16.401	97	3.5	1070
200	270	990	355M	94.9	89	288	6.7	157.3	190	230	35.024	92	3.5	1620
		740	355M	94.7	82.5	311	6.4	210.4	180	200	52.955	90	3.5	1730
		590	355L	93.7	78.5	330	6	263.9	130	200	65.175	90	3.5	1970
		2975	315L	95.0	92.5	346	7.1	65.41	180	220	8.482	99	3.5	1170
250	340	1485	315L	95.2	90	355	6.9	131	210	220	19.282	97	3.5	1170
		990	355M	95.0	89	359	6.7	196.6	190	230	41.65	92	3.5	1730
		740	355L	94.8	82.5	389	6.4	263	180	200	65.175	90	3.5	1970
315	420	2980	355M	95.3	93	429	7.1	81.63	160	230	13.608	103	3.5	1690
		1490	355M	95.5	91	437	6.9	163.3	210	220	31.752	101	3.5	1720
		990	355L	95.0	89.5	447	6.7	245.7	190	230	53.01	92	3.5	1820
		2980	355L	95.6	93.5	535	7.1	102.9	160	230	16.429	103	3.5	1860
		1490	355L	95.8	91.5	546	6.9	205.7	210	220	39.311	101	3.5	1870

HEAD OFFICE

Teco Electric & Machinery Co. Ltd
49 Wu Kong 6 Rd.
Wu-Ku Industrial Park
Taipei County 248
Taiwan ROC
Tel: +886 2 8990 1111
www.teco.com.tw

UNITED STATES

Teco Westinghouse Motor Company
PO Box 227 (78680-0277)
5100 N.IH35
Round Rock Texas 78681 USA
Tel: +1 512 255 4141
+1 800 873 8326
www.tecowestinghouse.com

CANADA

Teco Westinghouse
Motors Inc. (Canada)
18060-109th Ave
Edmonton, Alberta T5S 2K2 Canada
Tel: +1 780 444 8933
Fax: (780) 486-4575
24 HR Emergency Pager:
(780) 419-7734
Toll Free: 800-661-4023
Fax Toll Free: 888-US E-TWMI
www.twmi.com

UNITED KINGDOM

Teco Electric Europe Ltd
Teco Building Marshall Stevens Way
Trafford Park Manchester
M17 1PP England United Kingdom
Tel: +44 161 877 8025
www.teco.co.uk

GERMANY

Teco Westinghouse
Germany GmbH
Marktstraße 69
37441 Bad Sachsa Germany
Tel: +49 5523 95340
Fax: +49 5523 953424
www.teco-westinghouse.de

SPAIN

Teco Westinghouse Spain
C/Sancho Dávila 8 40f
28028 Madrid Spain
Tel: +34 91 725 1718

AUSTRALIA

Sydney Office
Teco Australia Pty Ltd.
335-337 Woodpark Road
Smithfield NSW 2164 Australia
Tel: +612 9765 8188
www.teco.com.au

MELBOURNE OFFICE

Teco Australia Pty Ltd.
16 Longstaff Road,
Bayswater VIC 3153 Australia
Tel: +613 9720 4411

BRISBANE OFFICE

Teco Australia Pty Ltd.
50 Murdoch Circuit
Acacia Ridge QLD 4100 Australia
Tel: +617 3373 9600

PERTH OFFICE

Teco Australia Pty Ltd.
28 Belgravia Street,
Belmont WA 6104 Australia
Tel: +618 9479 4879

NEW ZEALAND

Teco New Zealand Pty Ltd.
Unit 3 477 Great South Road
Penrose Auckland New Zealand
Tel: +64 9 526 8480

HONG KONG

Tecoson Industrial Development
(HK) Co Ltd.
Rm 3712 Hong Kong Plaza
186-191 Connaught Rd West
Hong Kong
Tel: +852 2858 3220

JAPAN

Sankyo Co., Ltd.
26th fl. World Trading Center Bldg.
2-4-1 Hamamatsucho Minato-ku
Tokyo Japan 105-6126
Tel: +813 3435 9729
Fax: +813 3578 8381

SINGAPORE

Teco Electric & Machinery (PTE) Ltd.
18 Chin Bee Drive
Singapore 619865
Tel: +65 6 265 4622
www.teco.com.sg

INDONESIA

P.T. Teco Multiguna Elektro
JL. Bandengan Utara No. 83/13
Jakarta Utara-14400 Indonesia
Tel: +62 21 662 2201

MALAYSIA

STE Marketing SDN BHD
6 Jalan Finima 2 Kawasan Perindustrian
Tebrau 1
8100 Johor Bahru Johor Malaysia
Tel: +60 7 354 8008

THAILAND

Teco Electric & Machinery
(Thai) Co. Ltd.
128/1 Soi Watsoiwarenoi
Moo 7 Bangna-Trad Road Km 18
Bangchalong Bangkok
Samuthprakarn 10540 Thailand
Tel: +662 337 131120

CHINA

Shanghai Office
Rm 321 Buiding No.6 Lane 1279
Zhongshan
W. Rd. Shanghai. P.R.C.
Tel: +86 21 516 8255
Fax: +86 21 6278 8761

Wuxi Teco Electric & Machinery Co.,
Ltd.
No. 9 Changjiang S. Rd. Wuxi Jiangsu,
China
Tel: +86 510 534 2005
Fax: +86 510 534 2001
www.wuxiteco.com

Jiangxi Teco Electric & Machinery Co.
Ltd
1028 Jinggangshan Ave. Nanchang,
Jiangxi, China
Tel: +86 791 641 1886
Fax: +86 791 641 4228

Suzhou Teco Electric &
Machinery Co., Ltd
No. 1 Changjiang W.Rd. South-Dam
Industrial Park Liuhe Zhen
Taicang City, Suzhou,
Jiangsu Province, PRC
Tel: +86 512 53619901
Fax: +86 512 5396 1058

<http://ti.enphongvietnam.com.vn>

