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INDUCTION MOTOR

FUKUTA®

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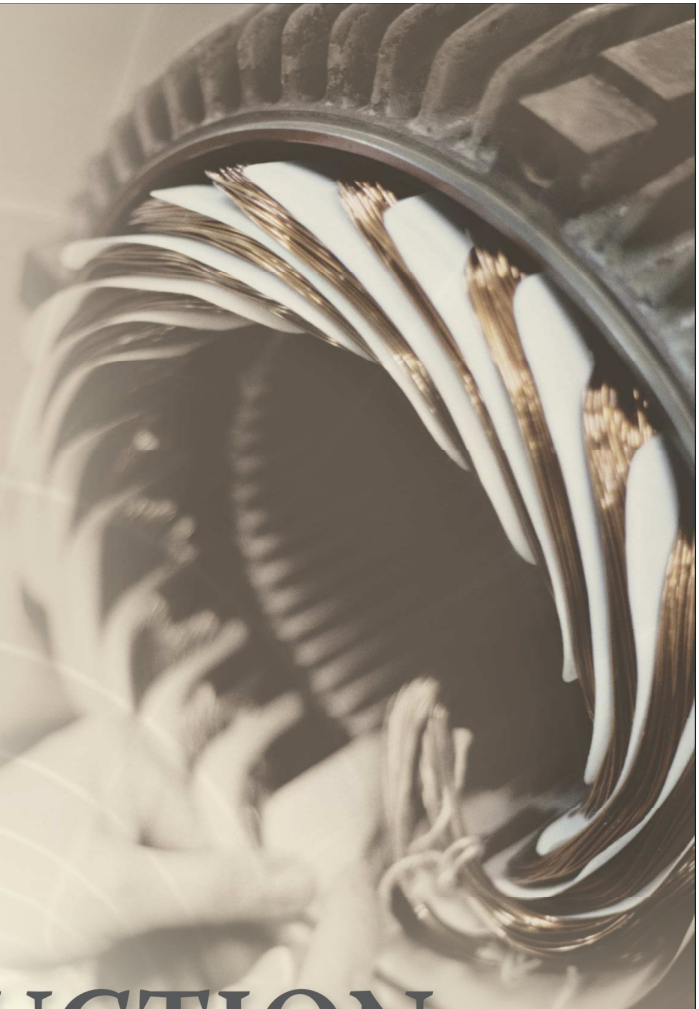


INDUCTION MOTOR

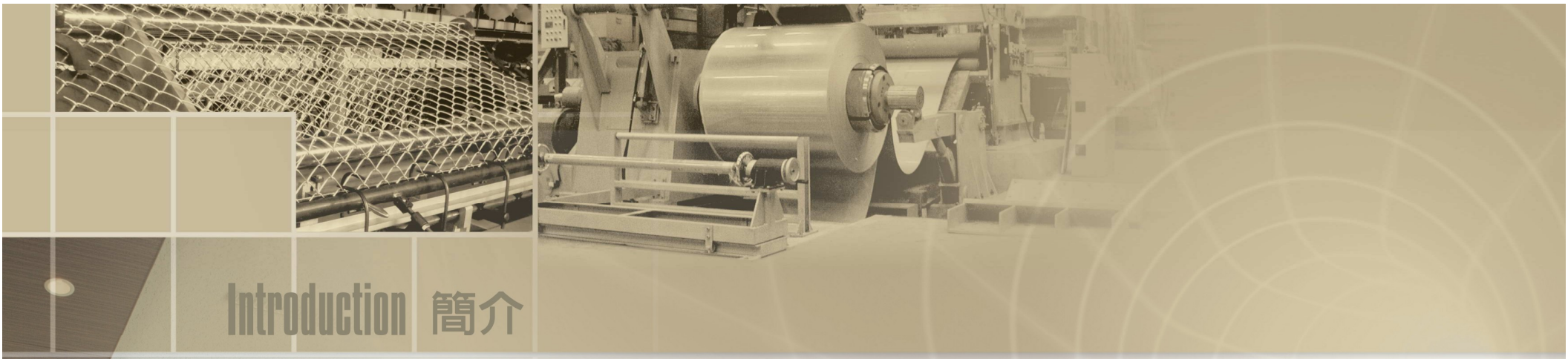
標準型感應電動機
AE系列【IE1/IE2/IE3/GB2/GB3】

輕量型感應電動機
AM系列【IE1/IE2/IE3】

變頻馬達/變頻專用馬達
G,D系列 / T,V系列

輕量型變頻馬達/輕量型變頻專用馬達
DM系列 / VM系列

ISO



Introduction 簡介

創新

積極創新，追求顧客滿意及公司永續繁榮。時時刻刻，力求創新，以顧客需求為導向，提供顧客滿意之產品與服務進而有效地創造利潤，促使公司永續繁榮。

熱忱

熱忱互助，共同達成顧客、公司與個人三贏之目標。尊重人性，塑造和諧明朗的工作環境；熱忱互助，關懷顧客，關心同事，共創顧客、公司、個人三贏之榮景。

誠信

誠信踏實，以優良的產品與服務貢獻社會。因應社會需求本乎誠信踏實之原則，持續致力於提供更好品質，更低成本之產品與服務，以貢獻社會。

INNOVATION is to create aggressively, pursue customers satisfaction and maintain the company's ever-lasting prosperity. We strive for creativity and innovation at all time. Based on the concept of customer-oriented, we provide satisfying products and service to our customers so that we can make profits efficiently and maintain the coampany's substantial prosperity.

SINCERITY is to help each other enthusiastically and achieve the win-win goals of customers, company, and individuals. We respect humanity and make a harmonious work environment. Helping each other enthusiastically means to care about our customers and colleagues so that we can have prosperous future of customers, company, and individuals.

CREDIBILITY is to offer the society excellent products and service.In order to meet the demands of society, we continue to make efforts based on the honest principle to provide services and products of best quality and less cost so as to make contributions to the society.

1988年	4月公司成立。
1993年	□國第一家投入研發「變頻專用馬達」。
1996年	通過ISO-9002國際品質驗證。
1997年	□國第一家投入研發「交流感應伺服馬達」。
1998年	(1). 取得經濟部工業局主導性新產品「交流感應伺服馬達」之補助案。 (2). □系列產品通過 CE MARK 歐洲安規認證。
2000年	(1).「交流感應伺服馬達」榮獲第九屆台灣精品標誌及優良設計標誌。
2001年	(1).「變頻專用馬達」榮獲第十屆台灣精品標誌。 (2).「100HP及150HP感應伺服馬達」獲得經濟部技術處SBIR計畫補助。 (3). □系列產品通過 CSA 加拿大及美國安規認證。
2002年	(1).「積片式伺服馬達」榮獲第十一屆台灣精品標誌。 (2). 榮獲台中縣第一屆金手獎表揚。 (3). 通過ISO-9001國際品質認證。
2003年	(1).「變速鋼索吊車專用馬達」獲得經濟部工業局CITD計畫補助。 (2). AEEH/AEVH/AMEH/AMVH系列通過中華民國高效率感應馬達認證。 (3).「變速鋼索吊車專用馬達」榮獲第十二屆台灣精品標誌。
2004年	(1).「250HP及400HP感應伺服馬達」獲得經濟部技術處SBIR計畫補助。 (2).「感應伺服馬達Frame 225」榮獲第十三屆台灣精品標誌。
2005年	(1) .與日本、美國客戶分別簽訂「風力發電機、轎跑車馬達(□電式)」技術合作案。
2006年	(1). □系列通過中華人民共和國CCC強制性產品認證。 (2). 榮獲經濟部技術處SBIR計畫2004年度績優執行廠商表揚。 (3). 榮獲經濟部技術處2006年度產業創新成果表揚。
2007年	與美商美國電動車大廠汽車公司簽約，正式量產電動車專用馬達。
2008年	取得經濟部工業局主導性新產品「5kw垂直風力發電機」之補助案。
2009年	(1). 金富田科技股份有限公司購置台中縣豐洲科技園區土地，預計建置電動車動力馬達專業製造廠。 (2). 金富田科技股份有限公司參與裕隆公司主導電動車(Luxgen)業界科專計畫。
2010年	(1). 投資成立矽鋼片沖壓廠(永泰豐科技股份有限公司)，朝向垂直整合經營模式。 (2). 推動電動車先進動力系統研發聯盟計畫。
2011年	(1). 協助美國電動車大廠公司新車型Model S 核心產品測試量產。 (2). 興建EV公司電動車、電動船、電動飛機馬達專用製造廠。 (3). 榮獲經濟部技術處「第一屆國家產業創新獎」。
2012年	(1). 參與台中地方產業創新研發推動計劃。 (2). 永磁同步伺服開發。
2013年	PM永磁同步伺服量產。 以馬達轉子榮獲國家發明創作獎之創作金牌獎。 榮獲美國電動車大廠 □球最佳供應商獎。 榮獲經濟部第一屆卓越中堅企業入圍廠商。
2014年	榮獲經濟部第二屆卓越中堅企業及重點輔導對象。 參與經濟部工業局主導性新產品電動清運車計畫開發計畫。 取得德國TUV SUD IE3高速馬達專利認證。
2015年	擔任經濟部工業局電動車主題或研發專案電動大客車共用動力計畫主導廠商。 榮獲經濟部第24屆國家磐石獎。 榮獲經濟部外銷績優中小企業第18屆小巨人獎。

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標準 AE,AM 系列規範表

項目		標準規範
規範 Specification	種□ Motor type	三相鼠籠式感應電動機（SCIM） 3 Phase squirrel cage induction motor
	設計依據 Design Standards	國際電工委員會（IEC）,中華民國國家標準（CNS） 日本工業規格協會（JIS）,中國國家標準（GB）
	電壓 Voltage	額定電壓 三相220V, 380V, 415V, 440V, 460V Rated voltage 220V,380V,415V,440V,460V
	頻率 Frequency	額定頻率 Rated frequency 50or60HZ
	時間額定 Rated Time	連續額定 S1(Continuous)
	保護方式 Protection Enclosure	IP54
	冷卻方式 Method of cooling	□密IC 411自帶外扇冷卻 IC411 Totally enclosed fan cooling
	安裝方式 Mounting	AEEF IM1001: 水平腳座安裝。 AEVF IM3001: 凸托架安裝 AEEF IM1001: Foot Mounted AEVF IM3001: Flange Mounted
使用環境 Ambient Conditions	電源 Power	電壓變動率: ±10%以內 Voltage variation:within ±10% 頻率變動率: ±5%以內 Frequency variation:within ±5% 綜合變動率: 以上兩點絕對值之和在10%以內 The total value of the absolute value for two points within 10%
	場所 Place	一般屋內 （避免腐蝕性氣體及多塵埃之處） Shadow, Non-Hazardous
	周溫 Temperature	－15˚C～40˚C
	濕度 Humidity	相對溫度80%以下 （不得結露） Relative Humidity less than 80% RH(Non-condensation)
	標高 Altitude	海拔1000公尺以下 Less than 1000 meter
	帶動方式 Coupling Method	皮帶輪帶動；但2極30HP以上,使用聯軸器帶動 For belt-drive Apptication; However, for 2 Poles 30HP and Larger, Direct-Coupling Service Only.
	轉向 Rotation Direction	雙轉向 Double rotation
	起動方式 Starting Methods	□壓直接啓動或Y/△啓動 Full Voltage Direct-on line or Y/Δ starting
	軸承 Bearing Type	雙遮蓋密閉式滾珠軸承 Double shield Non-contact Ball Bearings
	出線盒 Terminal box	鋼板材質超大容量□電纜線進口孔, 並能做90˚ 旋轉安裝 由負載端視之位於框架左側, 標準品不□電纜線 Available rotation for 90˚
	出口線 Leads	出口線3.6.9.12條, □有接線端子 3/6/9/12 leads,with terminals
	定子絕緣 Stator Insulation	框號: 63～112M E級絕緣 Frame No.63~112M E class 框號:132S～180M B級絕緣 Frame No.132S~180M B class 框號:180L～315M F級絕緣 Frame No.180L~315M F class
	螺紋 Thread	國際標準組織ISO－M公制 ISO Metric screw thread
測試程序 Test process		依據國際電工委員會（IEC34） 使用□壓啓動測試 According to IEC34

▸要求: 安裝聯軸器或皮帶輪請利用軸端攻牙壓進迫入，禁止以外力敲打軸端安裝。

變頻 G,D,T,V 系列規範表

項目		標準規範		
規範 Specification	種□ Motor type	三相鼠籠式感應電動機（SCIM） 3 Phase squirrel cage induction motor		
	保護方式 Protection Enclosure	IP54：□密式 IP54,Totally enclosed		
	安裝方式 Mounting	GF/DF/TF/VFEF: 水平安裝（IM1001） GF/DF/TF/VFEF: Foot Mounted		GF/DF/TF/VFVF: 凸托架安裝（IM3001） GF/DF/TF/VFVF: Flange Mounted
	冷卻方式 Cooling Method	IC416：送風機強制冷卻 IC416：Fan cooled	冷卻風扇 Cooling fan	單相 50/60HZ 200/240V Single phase 50/60HZ 200/240V
	極數 Pole	2P	4P	6P
	額定輸出（HP） Rated Output	1/4～60	1/4～270	1/4～215
	馬達電源 Incoming Power	3φ220,380,415,440,460V 50or60HZ (其他電源)		
	時間額定 Time Duty	連續額定,使用系數 S.F：1.0 Continuous rated, service factor:1.0		
	轉矩特性 Torque	V,T系列定轉矩負載使用範圍：1:10 Constant torque 1:10 D,G系列60HZ～10HZ定轉矩 10HZ～6HZ 遞減轉矩,轉矩成正比於轉速平方遞減 60HZ~10HZ Constant torque, 10HZ~6HZ decreasing torque		
	啓動特性 Starting Torque	125% 額定轉矩 125% of rated torque		
使用環境 Ambient conditions	絕緣等級 Stator Insulation	(G,T系列) F級、(D,V系列) H級（□熱保護器-常閉器） G,T series F class : D,V series H class(with thermal protector)		
	場所 Place	屋內 （避免腐蝕氣體及多塵埃之處） Shadow, Non-Hazardous		
	標高 Altitude	海拔1000公尺以下 Less than 1000 meter		
	周溫 Temperature	－15˚C～40˚C		
	濕度 Humidity	相對溫度80%以下 （不得結露） Relative humidity less than 80% RH (Non-condensation)		
標準轉向 Rotation direction		面向軸端視之，為逆時針方向旋轉 Counter-clockwise facing the drive end		
負載連結方式 Coupling Method		直接耦合（撓性連接器）或皮帶連結式 Direct coupling/belt coupling		
塗裝 Painting		防鏽處理＋酚樹脂底漆＋噴磁漆（Munsell 7.5GB 4/2） Rust prevention+Phenolic resin+Enamel paint		
選擇性□件 Optional accessories		回授裝置: PG（Encoder）編碼器1024PPR, Line drive DC-5V/Push pull DC-12V 或其他規格 Encoder: 1024PPR, Line drive DC-5V/Push pull DC-12V or other type		

▸要求: 安裝聯軸器或皮帶輪請利用軸端攻牙壓進迫入，禁止以外力敲打軸端安裝。

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

Character List 特性表 (IE1)

FUKUTA 標準型感應馬達特性表

(60Hz 220V)
280S~315M 為 60Hz 380V

Output				Frame No	Full Load Character				Startimg Character		Max. Torquo	Inertia
HP	KW	P	RPM		Efficiency %	Power Factor %	Current Amp.	Torque KG-M	Torque %	Current Amp.	%	KG-M²
		2	3335	63	61.0	77.0	1.0	0.054	400	6	300	0.002
1/4	0.185	4	1650	63	66.0	65.0	1.1	0.109	280	6	250	0.003
		6	1120	71	64.0	61.0	1.2	0.161	200	6	250	0.006
		2	3370	71	75.0	86.0	1.5	0.107	340	12	290	0.003
1/2	0.37	4	1680	71	70.0	74.0	1.9	0.214	200	12	250	0.005
		6	1130	80	68.0	66.0	2.2	0.319	200	12	230	0.009
		2	3395	80	77.0	86.0	3.0	0.215	220	19	280	0.005
1	0.75	4	1700	80	76.0	76.5	3.4	0.430	230	19	280	0.009
		6	1140	90L	76.0	71.0	3.6	0.641	200	19	230	0.018
		2	3415	90L	80.0	88.0	5.6	0.428	250	40	280	0.011
2	1.5	4	1710	90L	79.0	83.0	6.0	0.854	220	40	280	0.018
		6	1140	100L	78.0	74.0	6.8	1.281	180	40	220	0.033
		2	3420	90L	82.0	88.0	8.0	0.626	250	68	280	0.015
3	2.2	4	1725	100L	82.0	81.0	8.7	1.242	210	68	260	0.033
		6	1140	112M	82.0	75.5	9.3	1.879	180	68	230	0.060
		2	3450	112M	84.5	90.0	13.0	1.044	240	110	280	0.039
5	3.7	4	1745	112M	85.0	84.5	13.5	2.065	220	110	260	0.060
		6	1150	132S	84.0	77.5	15.0	3.133	180	110	230	0.154
		2	3490	132S	85.0	90.0	19.0	1.534	220	160	260	0.060
7.5	5.5	4	1750	132S	87.0	84.0	20.0	3.060	220	160	250	0.107
		6	1150	132M	85.0	77.5	22.0	4.657	200	160	230	0.222
		2	3490	132S	86.5	90.0	25.0	2.092	200	200	210	0.078
10	7.5	4	1750	132M	88.5	88.0	25.0	4.173	220	200	250	0.146
		6	1170	160M	87.0	80.0	28.0	6.242	210	200	230	0.408
		2	3510	160M	88.0	90.0	36.0	3.052	200	290	240	0.164
15	11	4	1760	160M	90.0	87.5	36.7	6.086	220	290	250	0.322
		6	1170	160L	89.5	83.0	39.0	9.155	210	290	230	0.599
		2	3520	160M	89.5	91.0	48.0	4.149	200	360	240	0.191
20	15	4	1760	160L	90.5	86.5	50.3	8.299	220	360	240	0.415
		6	1170	180M	90.0	85.5	51.2	12.483	200	360	220	1.007
		2	3520	160L	90.0	87.0	62.0	5.118	200	440	230	0.247
25	18.5	4	1760	180M	91.0	82.0	64.9	10.235	210	440	240	0.624
		6	1170	180L	90.0	84.5	64.0	15.396	200	440	220	1.170
		2	3520	180M	90.5	88.0	72.7	6.086	200	550	230	0.315
30	22	4	1750	180M	91.5	88.0	72.0	12.241	210	550	240	0.671
		6	1170	180L	91.0	79.5	80.0	18.309	200	550	215	1.365
		2	3520	180L	90.5	91.5	95.1	8.299	150	620	210	0.829
40	30	4	1760	180L	92.0	88.0	97.0	16.597	210	620	240	0.829
		6	1170	200L	92.0	87.0	98.0	24.967	190	620	215	1.952
		2	3545	200L	91.0	87.0	123.0	10.163	150	800	210	0.602
50	37	4	1760	200L	92.0	84.5	125.0	20.470	200	800	230	1.293
		6	1170	200L	92.5	84.0	126.0	30.793	210	800	210	2.292
		2	3545	200L	91.5	90.0	143.0	12.360	170	910	220	0.633
60	45	4	1760	200L	92.0	88.5	145.0	24.896	190	910	220	1.681
		6	1180	225S	93.0	83.0	153.0	37.133	210	910	210	3.052
		4	1770	225S	93.5	91.0	170.0	30.257	185	1200	220	2.308
75	55	6	1180	250S	93.5	86.0	179.0	45.385	200	1200	210	5.161
		8	885	280S	92.0	77.5	202.0	60.513	135	1200	210	16.00
		4	1775	250S	94.0	94.5	222.0	41.143	180	1450	220	3.887
100	75	6	1185	250M	94.5	89.0	234.0	61.627	200	1450	200	6.368
		8	885	280M	92.5	77.5	275.0	82.518	135	1450	210	19.60
		4	1775	250M	94.5	90.5	276.0	49.371	180	2100	220	4.428
125	90	6	1180	280S	94.0	85.0	171.0	74.266	130	1150	230	13.80
		8	885	315S	93.0	78.0	189.0	99.021	130	1150	210	21.50
		4	1770	280S	94.7	87.0	203.0	60.513	130	1400	230	7.600
150	110	6	1180	280M	94.3	85.5	207.0	90.770	130	1400	230	15.20
		8	885	315M	93.0	78.0	230.0	121.026	130	1400	210	25.50
175	132	4	1770	280M	94.9	88.0	240.0	72.616	130	1680	230	8.600
		6	1185	315S	94.5	86.0	247.0	108.464	130	1680	230	18.50
215	160	4	1775	315S	95.0	89.5	286.0	87.771	130	2030	230	11.20
		6	1185	315M	94.6	86.5	297.0	131.471	130	2030	230	21.40
250 270	200	4	1775	315M	95.0	90.0	355.0	109.714	120	2550	230	14.20

▸註*(Note)*: 1.特性公差依IEC34 (Examination method according to IEC34)
2.以上數值若有變更,恕不另行通知。(All data is subject to change without prior notification.)

FUKUTA 標準型感應馬達特性表

(50Hz 380V)

Output				Frame No	Full Load Character				Startimg Character		Max. Torquo	Inertia
HP	KW	P	RPM		Efficiency %	Power Factor %	Current Amp.	Torque KG-M	Torque %	Current Amp.	%	KG-M²
		2	2800	63	56.0	76.5	0.7	0.064	400	3.5	330	0.002
1/4	0.185	4	1380	63	64.0	68.5	0.6	0.131	220	3.5	240	0.003
		6	925	71	60.0	60.0	0.8	0.195	260	3.5	270	0.006
		2	2810	71	75.0	85.0	0.9	0.128	320	7	280	0.003
1/2	0.37	4	1390	71	65.5	70.0	1.2	0.259	200	7	230	0.005
		6	930	80	63.0	67.0	1.3	0.387	200	7	230	0.009
		2	2820	80	76.5	87.0	1.7	0.259	220	11	280	0.005
1	0.75	4	1400	80	73.0	74.0	2.1	0.522	250	11	280	0.009
		6	940	90L	71.0	70.0	2.3	0.777	190	11	230	0.018
		2	2850	90L	80.0	88.0	3.2	0.512	250	23	280	0.011
2	1.5	4	1410	90L	78.5	78.5	3.7	1.036	220	23	280	0.018
		6	945	100L	76.0	71.5	4.2	1.546	180	23	220	0.033
		2	2850	90L	83.5	88.5	4.5	0.752	250	39	280	0.015
3	2.2	4	1420	100L	81.0	82.0	5.0	1.509	210	39	260	0.033
		6	950	112M	79.0	76.0	5.6	2.255	180	39	230	0.060
		2	2900	112M	85.5	90.0	7.3	1.242	240	63	320	0.039
5	3.7	4	1440	112M	84.5	83.5	8.0	2.502	220	63	290	0.060
		6	955	132S	82.0	79.5	9.1	3.772	180	63	230	0.154
		2	2890	132S	86.5	88.5	11.0	1.853	210	93	260	0.060
7.5	5.5	4	1450	132S	86.0	82.5	12.0	3.693	220	93	280	0.107
		6	960	132M	84.5	77.5	13.0	5.637	200	93	230	0.222
		2	2900	132S	88.5	88.5	14.5	2.518	200	116	250	0.078
10	7.5	4	1450	132M	87.5	85.5	15.0	5.036	220	116	250	0.146
		6	950	160M	86.0	80.0	17.0	7.687	270	116	300	0.408
		2	2910	160M	88.5	90.0	21.0	3.681	210	168	290	0.164
15	11	4	1460	160M	89.5	88.0	21.0	7.336	220	168	250	0.322
		6	950	160L	88.5	84.0	22.5	11.042	220	168	260	0.599
		2	2920	160M	90.0	91.0	28.0	5.002	210	209	260	0.191
20	15	4	1460	160L	90.5	88.5	28.5	10.004	230	209	260	0.415
		6	970	180M	89.0	82.5	31.0	15.057	210	209	230	1.007
		2	2920	160L	90.0	89.5	35.0	6.149	240	268	290	0.247
25	18.5	4	1465	180M	91.0	86.5	35.7	12.296	210	268	240	0.624
		6	970	180L	90.0	82.5	38.0	18.571	220	268	240	1.170
		2	2920	180M	91.5	90.0	41.0	7.336	210	319	250	0.315
30	22	4	1465	180M	90.5	85.5	43.0	14.622	210	319	240	0.671
		6	970	180L	90.0	82.0	45.0	22.084	230	319	260	1.365
		2	2920	180L	92.0	91.0	54.0	10.004	210	398	240	0.829
40	30	4	1460	180L	91.5	85.0	59.0	20.088	220	398	230	0.829
		6	970	200L	91.5	83.0	60.0	30.115	190	398	200	1.952
		2	2940	200L	92.0	87.5	70.0	12.254	150	463	210	0.602
50	37	4	1460	200L	92.0	86.0	71.0	24.676	190	463	210	1.293
		6	970	200L	92.0	80.0	76.0	36.951	230	463	250	2.292
		2	2955	200L	92.5	87.0	85.0	14.828	160	582	220	0.633
60	45	4	1460	200L	92.5	88.5	84.0	30.012	190	582	200	1.681
		6	980	225S	92.5	84.0	88.0	44.711	220	582	250	3.052
		4	1470	225S	93.0	85.0	106.0	36.431	180	725	200	2.308
75	55	6	980	250S	93.5	86.0	104.0	54.647	200	725	200	5.161
		8	735	280S	91.5	76.0	120.0	72.863	140	700	210	16.00
		4	1475	250S	94.0	89.0	136.0	49.511	240	927	250	3.887
100	75	6	975	250M	93.5	87.0	140.0	74.901	220	927	250	6.368
		8	735	280M	91.5	76.0	164.0	99.358	140	960	210	19.60
		4	1475	250M	94.0	92.0	158.0	59.413	190	1245	230	4.428
125	90	6	975	280S	93.8	81.0	180.0	89.881	130	1150	230	13.80
		8	735	315S	92.0	77.0	193.0	119.230	140	1150	210	21.50
		4	1475	280S	94.5	83.0	213.0	72.616	130	1400	230	7.600
150	110	6	975	280M	94.0	81.0	220.0	109.854	130	1400	230	15.20
		8	735	315M	92.0	77.0	236.0	145.725	140	1400	210	25.50
175	132	4	1475	280M	94.8	83.5	253.0	87.139	130	1680	230	8.600
		6	980	315S	94.2	83.5	255.0	131.153	130	1680	230	18.50
215	160	4	1480	315S	94.9	88.5	289.0	105.266	130	2030	230	11.20
		6	980	315M	94.5	85.5	301.0	158.973	130	2030	230	21.40
250 270	200	4	1480	315M	94.9	88.5	362.0	131.582	120	2550	230	14.20

▸註*(Note)*: 1.特性公差依IEC34 (Examination method according to IEC34)
2.以上數值若有變更,恕不另行通知。(All data is subject to change without prior notification.)

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

Character List 特性表 (IE2)

FUKUTA 高效率感應馬達特性表

(60Hz 220V)
280S~315M 為 60Hz 380V

Output				Frame No	Full Load Character				Startimg Character		Max. Torque	Inertia
HP	KW	P	RPM		Efficiency %	Power Factor %	Current Amp.	Torque KG-M	Torque %	Current Amp.	%	KG-M²
		2	3360	63	72.0	82.0	0.8	0.054	370	6	350	0.002
1/4	0.185	4	1610	63	74.0	68.5	1.0	0.112	220	6	250	0.003
		6	940	71	75.0	65.5	1.0	0.192	230	6	250	0.005
		2	3420	71	78.5	86.0	1.4	0.105	300	12	280	0.002
1/2	0.37	4	1700	71	78.5	72.0	1.7	0.212	290	12	280	0.006
		6	1120	80	76.0	69.0	1.9	0.322	280	12	250	0.013
		2	3410	80	78.5	86.0	2.9	0.214	280	19	310	0.005
1	0.75	4	1725	80	83.6	73.5	3.2	0.423	350	25	390	0.011
		6	1155	90L	80.0	66.5	3.7	0.632	260	25	300	0.022
		2	3470	90L	84.0	82.5	5.7	0.421	360	50	400	0.011
2	1.5	4	1735	90L	84.2	77.0	6.1	0.842	260	45	330	0.020
		6	1150	100L	85.5	84.5	5.4	1.270	250	40	270	0.059
		2	3475	90L	86.5	82.5	8.1	0.616	360	75	380	0.015
3	2.2	4	1745	100L	87.6	78.0	8.4	1.228	320	75	340	0.033
		6	1160	112M	87.5	72.5	9.1	1.847	180	68	270	0.060
		2	3480	112M	88.5	90.0	12.2	1.035	380	120	380	0.046
5	3.7	4	1740	112M	87.7	81.5	13.6	2.071	220	110	300	0.076
		6	1170	132S	87.5	76.5	14.5	3.079	180	100	280	0.131
		2	3520	132S	89.5	87.5	18.4	1.521	230	160	290	0.063
7.5	5.5	4	1760	132S	89.6	80.5	20.0	3.043	290	165	320	0.143
		6	1170	132M	89.5	77.0	20.9	4.577	200	165	340	0.217
		2	3505	132S	89.5	88.5	24.8	2.084	210	200	280	0.078
10	7.5	4	1755	132M	90.1	84.0	26.0	4.161	240	200	300	0.146
		6	1175	160M	89.5	81.0	27.2	6.215	280	200	300	0.484
		2	3535	160M	90.2	90.0	36.0	3.030	250	330	330	0.173
15	11	4	1760	160M	91.0	86.0	37.0	6.086	240	290	270	0.352
		6	1175	160L	90.2	80.5	40.0	9.116	280	320	310	0.630
		2	3535	160M	91.0	90.5	48.0	4.132	260	415	330	0.191
20	15	4	1760	160L	91.7	87.5	49.0	8.299	230	360	270	0.415
		6	1175	180M	91.0	83.0	52.0	12.430	230	360	250	1.233
		2	3525	160L	91.7	91.5	58.0	5.110	240	460	340	0.247
25	18.5	4	1770	180M	92.4	86.0	61.0	10.177	220	460	270	0.707
		6	1175	180L	91.7	83.0	64.0	15.331	240	440	260	1.534
		2	3525	180M	91.7	90.0	70.0	6.077	230	560	290	0.283
30	22	4	1770	180M	92.4	84.0	74.0	12.103	240	560	260	0.792
		6	1175	180L	91.7	83.5	75.0	18.231	260	560	320	1.725
		2	3545	180L	92.4	86.0	99.0	8.240	230	780	320	0.340
40	30	4	1765	180L	93.0	86.0	98.0	16.660	230	770	280	1.003
		6	1175	200L	93.0	86.5	98.0	24.861	200	620	230	2.558
		2	3540	200L	92.4	89.5	117.0	10.177	170	820	290	1.018
50	37	4	1770	200L	93.0	84.0	124.0	20.354	200	860	260	1.484
		6	1180	200L	93.0	85.0	123.0	30.532	220	860	230	3.256
		2	3640	200L	93.0	91.0	140.0	12.038	170	960	270	1.187
60	45	4	1775	200L	94.1	86.0	146.0	24.686	210	1060	240	1.806
		6	1180	225S	94.1	89.5	140.0	37.133	220	980	220	4.376
75	55	4	1780	225S	94.1	86.0	159.0	30.087	230	1240	240	2.308
		6	1165	250S	94.1	84.0	183.0	45.969	200	1260	260	5.161
100	75	4	1780	250S	94.5	90.0	231.0	41.027	170	1450	250	4.653
		6	1185	250M	94.1	86.5	242.0	61.627	190	1450	250	8.175
125	90	4	1780	250M	94.5	94.0	266.0	49.233	190	2150	220	5.393
		6	1165	280S	94.4	94.3	154.0	75.222	180	1160	230	13.20
150	110	4	1780	280S	94.5	87.0	203.0	60.173	150	1510	210	8.200
		6	1185	280M	95.0	85.0	207.0	90.387	180	1510	220	15.10
175	132	4	1780	280M	95.1	88.0	240.0	72.208	150	1740	210	9.500
		6	1185	315S	95.0	86.0	245.0	108.464	180	1740	220	18.40
215	160	4	1780	315S	95.1	89.5	286.0	87.524	150	2100	220	12.40
		6	1185	315M	95.1	86.5	296.0	108.464	170	2100	220	22.70
250 270	200	4	1775	315M	95.4	87.0	366.0	109.714	105	2550	205	14.20

▸註*(Note)*: 1.特性公差依IEC34 (Examination method according to IEC34)
2.以上數值若有變更，恕不另行通知。(All data is subject to change without prior notification.)

(IE2/GB3)

FUKUTA 高效率感應馬達特性表

(50Hz 380V)

Output				Frame No	Full Load Character				Startimg Character		Max. Torque	Inertia
HP	KW	P	RPM		Efficiency %	Power Factor %	Current Amp.	Torque KG-M	Torque %	Current Amp.	%	KG-M²
		2	2750	63	72.0	82.0	0.5	0.066	370	3.5	350	0.002
1/4	0.185	4	1345	63	74.0	71.5	0.5	0.134	250	3.5	250	0.003
		6	940	71	74.5	66.0	0.6	0.192	270	3.5	250	0.005
		2	2765	71	78.5	88.5	0.8	0.130	270	7	250	0.002
1/2	0.37	4	1390	71	76.0	73.0	1.0	0.259	260	7	250	0.006
		6	910	80	73.0	74.0	1.0	0.396	220	7	220	0.013
		2	2805	80	77.5	86.5	1.7	0.260	250	12	280	0.005
1	0.75	4	1425	80	80.0	74.5	1.9	0.512	330	14	250	0.011
		6	960	90L	78.5	66.5	2.2	0.761	260	12	280	0.022
		2	2870	90L	83.0	81.0	3.4	0.509	330	29	380	0.011
2	1.5	4	1430	90L	83.0	78.0	3.5	1.021	240	26	300	0.020
		6	945	100L	83.0	71.0	3.9	1.546	250	26	260	0.059
		2	2865	90L	85.0	87.0	4.5	0.748	340	43	350	0.015
3	2.2	4	1440	100L	86.0	83.5	4.7	1.488	320	43	330	0.033
		6	955	112M	86.0	72.5	5.4	2.243	190	43	260	0.060
		2	2885	112M	88.5	90.0	7.1	1.249	340	69	360	0.046
5	3.7	4	1435	112M	86.0	86.5	7.6	2.511	220	69	290	0.076
		6	965	132S	86.0	76.0	8.6	3.733	180	69	270	0.131
		2	2915	132S	89.0	86.5	10.9	1.837	240	101	290	0.063
7.5	5.5	4	1460	132S	89.0	80.0	11.7	3.668	270	101	310	0.143
		6	970	132M	88.0	86.5	11.0	5.521	210	101	320	0.217
		2	2900	132S	89.0	88.0	14.5	2.518	210	127	280	0.078
10	7.5	4	1455	132M	89.0	83.5	15.3	5.019	260	127	300	0.146
		6	970	160M	88.5	81.0	15.9	7.529	270	127	300	0.484
		2	2930	160M	90.0	90.0	21.0	3.656	250	185	320	0.173
15	11	4	1455	160M	90.5	85.0	22.0	7.361	230	185	270	0.352
		6	970	160L	90.0	80.0	23.0	11.042	280	193	310	0.630
		2	2930	160M	90.5	90.0	28.0	4.985	260	245	320	0.191
20	15	4	1460	160L	91.0	91.5	27.0	10.004	230	230	260	0.415
		6	970	180M	90.5	92.0	27.0	15.057	220	230	240	1.233
		2	2925	160L	90.0	91.0	34.0	6.159	240	350	300	0.247
25	18.5	4	1465	180M	91.7	92.0	33.0	12.296	230	350	290	0.707
		6	970	180L	91.0	92.5	33.0	18.571	230	350	260	1.534
		2	2930	180M	91.5	90.5	40.0	7.311	230	350	300	0.283
30	22	4	1465	180M	92.0	81.5	45.0	14.622	220	350	290	0.792
		6	970	180L	91.0	83.5	44.0	22.084	230	350	260	1.725
		2	2935	180L	91.5	87.5	57.0	9.953	240	460	300	0.340
40	30	4	1465	180L	93.0	84.5	58.0	19.939	270	460	290	1.003
		6	980	200L	92.0	85.0	58.0	29.807	200	460	230	2.558
		2	2945	200L	92.5	87.5	69.0	12.233	180	470	290	1.018
50	37	4	1475	200L	93.0	82.5	73.0	24.425	190	495	240	1.484
		6	980	200L	92.5	84.0	72.0	36.763	210	495	240	3.256
		2	2940	200L	93.0	90.0	82.0	14.90	170	640	270	1.190
60	45	4	1475	200L	93.5	86.0	85.0	29.71	190	640	240	1.810
		6	980	225S	92.5	86.5	85.0	44.71	200	640	240	4.380
75	55	4	1465	225S	94.0	84.5	94.0	36.556	230	785	240	2.308
		6	985	250S	93.6	82.5	108.0	54.370	200	785	260	5.161
100	75	4	1475	250S	94.1	88.5	137.0	49.511	170	1010	560	4.653
		6	985	250M	93.6	84.5	144.0	74.140	190	1010	280	8.175
125	90	4	1475	250M	94.1	88.0	165.0	59.413	190	1360	240	5.393
		6	985	280S	94.2	84.0	173.0	88.968	180	1155	220	13.20
150	110	4	1475	280S	94.2	85.0	209.0	72.616	150	1300	210	8.200
		6	985	280M	94.5	84.0	211.0	108.739	180	1300	220	15.10
175	132	4	1460	280M	94.5	87.0	244.0	88.034	150	1550	210	9.500
		6	985	315S	94.5	85.0	250.0	130.487	180	1550	230	18.40
215	160	4	1460	315S	94.5	85.0	303.0	106.708	150	2050	210	12.40
		6	985	315M	94.6	85.0	302.0	130.487	180	2050	230	22.70
250 270	200	4	1450	315M	95.4	89.0	358.0	134.305	105	2350	205	14.20

▸註*(Note)*: 1.特性公差依IEC34 (Examination method according to IEC34)
2.以上數值若有變更，恕不另行通知。(All data is subject to change without prior notification.)

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

Character List 特性表 (IE3)

FUKUTA 超高效率感應馬達特性表

(60Hz 220V)

Output				Frame No	Full Load Character				Startimg Character		Max. Torque	Inertia
HP	KW	P	RPM		Efficiency %	Power Factor %	Current Amp.	Torque KG-M	Torque %	Current Amp.	%	KG-M²
1	0.75	2	3460	80	80.0	84.1	2.9	0.211	435	26	430	0.006
		4	1730	80	85.5	71.6	3.2	0.422	415	26	420	0.013
		6	1145	90L	82.5	69.6	3.4	0.638	195	20	265	0.022
2	1.5	2	3445	90L	85.5	85.6	5.4	0.424	395	46	395	0.011
		4	1745	90L	87.5	77.6	5.8	0.837	325	51	385	0.023
		6	1165	112M	88.5	68.6	6.5	1.254	170	44	270	0.071
3	2.2	2	3455	90L	86.5	88.0	7.7	0.620	390	70	400	0.015
		4	1745	100L	89.5	83.4	7.9	1.228	320	75	330	0.050
		6	1160	112M	89.5	72.2	9.1	1.847	170	57	265	0.084
5	3.7	2	3475	112M	88.5	91.4	12.1	1.037	320	120	385	0.046
		4	1750	112M	89.5	82.9	13.2	2.059	225	110	325	0.083
		6	1165	132S	89.5	78.7	13.9	3.093	185	105	280	0.143
7.5	5.5	2	3510	132S	90.2	90.4	18.0	1.526	245	140	295	0.076
		4	1760	132S	91.7	86.6	18.5	3.044	250	160	310	0.133
		6	1175	132M	91.0	76.8	21.0	4.559	230	170	345	0.217
10	7.5	2	3510	132S	90.2	86.8	25.0	2.081	255	200	300	0.076
		4	1765	132M	91.7	85.4	25.0	4.139	270	230	320	0.173
		6	1175	160M	91.7	79.1	27.0	6.217	280	210	285	0.484
15	11	2	3535	160M	91.7	91.5	35.0	3.031	235	280	285	0.183
		4	1765	160M	92.4	87.1	36.5	6.070	245	290	275	0.367
		6	1170	160L	91.7	81.1	39.5	9.157	280	320	290	0.630
20	15	2	3530	160M	91.7	89.9	47.5	4.139	240	390	290	0.183
		4	1765	160L	93.0	85.9	49.0	8.278	255	400	285	0.462
		6	1175	180M	92.0	82.6	51.5	12.434	240	340	235	0.630
25	18.5	2	3535	160L	92.4	92.1	57.5	5.097	260	500	295	0.237
		4	1770	180M	93.6	87.9	59.5	10.180	250	470	265	0.707
		6	1180	180L	93.5	82.4	63.5	15.270	280	530	300	0.810
30	22	2	3545	180M	93.0	90.2	70.0	6.045	225	560	280	0.283
		4	1775	180M	93.6	85.4	73.5	12.072	220	560	250	0.792
		6	1180	180L	93.5	84.3	74.5	18.159	285	590	285	1.917
40	30	2	3550	180L	93.5	91.5	91.5	8.231	280	840	325	0.434
		4	1775	180L	94.1	84.9	98.0	16.462	225	720	255	1.005
		6	1180	200L	94.1	86.2	96.5	24.763	210	620	215	3.023
50	37	2	3555	200L	93.0	90.0	117.0	10.137	170	960	295	1.018
		4	1780	200L	95.0	85.9	120.0	20.246	215	870	250	1.896
		6	1185	200L	94.1	86.0	121.0	30.412	240	860	240	3.605
60	45	2	3555	200L	93.6	90.9	138.0	12.329	160	1000	265	1.187
		4	1775	200L	95.5	84.8	145.0	24.693	215	1050	260	1.979
		6	1185	225S	94.5	86.3	144.0	36.987	240	1090	260	5.106
75	55	4	1785	225S	95.5	87.9	175.0	30.011	290	1440	260	3.911
		6	1185	250S	95.0	84.5	183.0	45.207	190	1260	260	6.492
100	75	4	1780	250S	95.4	85.5	240.0	41.039	190	1870	300	4.853
		6	1185	250M	95.0	85.5	241.0	61.646	185	1620	250	8.175
125	90	4	1785	250M	95.4	89.1	288.0	49.109	200	2540	305	5.393
		6	1185	280S	95.2	88.0	292.0	73.912	280	2600	250	15.080
150	110	4	1785	280S	95.8	89.6	342.0	60.022	210	2900	260	9.180
		6	1185	280M	95.8	89.6	342.0	90.414	260	2900	240	17.294

▸註*(Note)*: 1.特性公差依IEC34 (Examination method according to IEC34)
2.以上數值若有變更，恕不另行通知。(All data is subject to change without prior notification.)

(IE3/GB2)

FUKUTA 超高效率感應馬達特性表

(50Hz 380V)

Output				Frame No	Full Load Character				Startimg Character		Max. Torque	Inertia
HP	KW	P	RPM		Efficiency %	Power Factor %	Current Amp.	Torque KG-M	Torque %	Current Amp.	%	KG-M²
1	0.75	2	2860	80	82.4	83.9	1.6	0.255	375	14	390	0.006
		4	1430	80	83.5	73.0	1.9	0.511	380	14	375	0.013
		6	940	90L	79.5	70.6	2.0	0.777	200	11	235	0.022
2	1.5	2	2835	90L	85.5	85.5	3.1	0.515	360	24	360	0.011
		4	1440	90L	86.0	76.6	3.4	1.015	320	27	360	0.023
		6	965	112M	86.0	68.6	3.8	1.514	175	24	250	0.071
3	2.2	2	2845	90L	85.9	87.6	4.5	0.753	370	37	355	0.015
		4	1440	100L	87.0	83.5	4.7	1.488	300	40	315	0.050
		6	960	112M	86.5	72.5	5.4	2.232	175	32	265	0.084
5	3.7	2	2870	112M	88.0	91.3	7.1	1.256	290	63	345	0.046
		4	1445	112M	88.4	82.9	7.7	2.494	235	63	305	0.083
		6	965	132S	87.0	76.6	8.5	3.735	200	58	275	0.143
7.5	5.5	2	2915	132S	89.5	90.5	10.5	1.838	230	80	290	0.076
		4	1460	132S	90.0	85.9	11.0	3.669	240	84	295	0.133
		6	970	132M	89.0	76.4	12.5	5.523	225	95	335	0.217
10	7.5	2	2905	132S	90.1	86.8	14.5	2.515	270	110	300	0.076
		4	1460	132M	91.0	85.9	14.5	5.003	260	121	315	0.173
		6	970	160M	90.0	78.7	16.0	7.531	270	116	280	0.484
15	11	2	2930	160M	91.7	90.4	20.5	3.657	230	153	280	0.183
		4	1460	160M	91.4	86.5	21.5	7.338	230	158	270	0.367
		6	970	160L	90.3	81.9	23.0	11.045	295	168	285	0.630
20	15	2	2930	160M	91.9	89.7	27.5	4.986	230	210	290	0.183
		4	1460	160L	92.1	84.9	29.0	10.007	250	216	280	0.462
		6	970	180M	91.2	82.9	30.0	15.062	220	184	235	0.630
25	18.5	2	2930	160L	92.4	92.9	33.0	6.160	260	243	300	0.237
		4	1465	180M	92.6	86.2	35.5	12.300	235	258	265	0.707
		6	980	180M	92.5	81.7	37.5	18.387	285	290	310	0.810
30	22	2	2935	180M	93.0	89.2	41.0	7.301	225	316	270	0.283
		4	1475	180M	93.5	84.6	43.0	14.527	215	310	255	0.792
		6	975	180L	92.5	83.5	44.0	21.977	265	321	285	1.917
40	30	2	2950	180L	93.5	91.5	53.0	9.905	255	458	330	0.434
		4	1475	180L	93.6	84.2	57.5	19.810	215	395	260	1.005
		6	980	200L	93.0	85.5	57.0	29.816	210	337	220	3.023
50	37	2	2950	200L	93.7	87.7	69.0	12.216	185	542	300	1.018
		4	1480	200L	94.5	85.1	70.5	24.350	205	484	255	1.896
		6	980	200L	93.5	87.8	69.0	36.773	230	463	245	3.605
60	45	2	2955	200L	94.0	91.0	79.5	14.832	165	568	270	1.187
		4	1475	200L	94.5	83.2	86.5	29.715	205	579	270	1.979
		6	985	225S	94.0	86.1	84.0	44.497	235	595	270	5.106
75	55	4	1485	225S	95.0	87.7	102.0	36.074	270	763	275	3.911
		6	985	250S	94.1	83.6	108.0	54.386	195	721	275	6.492
100	75	4	1480	250S	95.0	86.5	138.0	49.358	180	958	295	4.853
		6	985	250M	94.6	84.7	141.5	74.162	185	895	260	8.175
125	90	4	1480	250M	95.2	91.3	163.0	59.230	205	1400	295	5.393
		6	985	280S	94.9	84.3	177.0	88.995	280	1475	265	15.080
150	110	4	1480	280S	95.4	87.6	203.5	72.392	180	1580	230	9.180
		6	985	280M	95.1	87.6	204.0	108.770	270	1580	240	17.294

▸註*(Note)*: 1.特性公差依IEC34 (Examination method according to IEC34)
2.以上數值若有變更，恕不另行通知。(All data is subject to change without prior notification.)

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

AE系列(臥式)

AEEF	AEEJ	AEEK	AEEH	AEET
IE1	IE2	IE3	GB3	GB2

Fukuta Standard Induction Motor, Iron-casting Frame, Foot Mounted.

(FUKUTA標準型感應電動機)

(IE1/IE2)

(IE3)

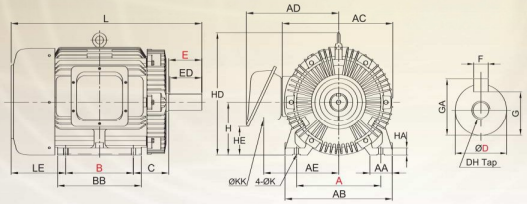


Fig.3

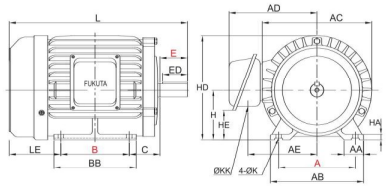


Fig.1

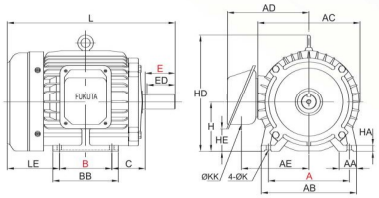


Fig.2

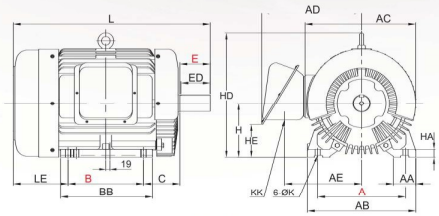


Fig.4

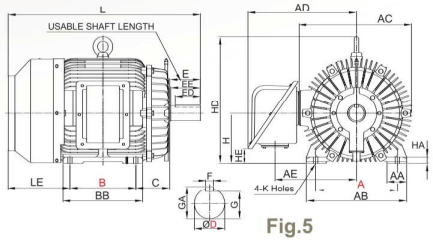


Fig.5

Specifications 規格						B3 Dimensions 尺寸											
Output (HP)				Frame No.	Fig.	A	AA	AB	AC	AD	AE	B	BB	C	H	HA	HD
2P	4P	6P	8P														
1/4	1/4	—	—	63	1	100	28	120	143	125	94	80	100	40	63	8	134
1/2	1/2	1/4	—	71	1	112	37.5	138	163.5	137.5	104	90	119	45	71	11	152
1	1	1/2	1/4	80	1	125	38	155	176	149	114.5	100	130	50	80	9	168
2, 3	2	1	1/2	90L	1	140	35.5	170	200	160.5	126	125	150	56	90	10	190
—	3	2	1	100L	2	160	45	196	217	177	135	140	175	63	100	12.5	243
5	5	3	2	112M	2	190	45	224	238	187	145	140	175	70	112	14	265
7.5,10	7.5	5	3	132S	2	216	46	254	273	221.5	180	140	175	89	132	16	310
—	10	7.5	5	132M	2	216	46	254	273	221.5	180	178	213	89	132	16	310
15, 20	15	10	7.5	160M	3	254	75	300	330	253	212	210	250	108	160	18	373
25	20	15	10	160L	3	254	75	300	330	253	212	254	300	108	160	18	373
30	25, 30	20	15	180M	3	279	80	355	381	300.5	243	241	297	121	180	20	421
40	40	25, 30	20	180L	3	279	80	355	381	300.5	243	279	335	121	180	20	421
50,60	50, 60	40, 50	25, 30	200L	3	318	80	398	421	331.5	273.5	305	350	133	200	24	469
—	75	60	40	225S	3	356	94.5	453	467.5	391.5	316.8	286	354	149	225	30	515
—	100	75	50	250S	4	406	104	501	513.5	473	355.9	311	425	168	250	37	573.5
—	125	100	60	250M	4	406	104	501	513.5	473	355.9	349	425	168	250	37	573.5
—	150	125	75	280S	5	457	110	560	627.5	606	455	368	445	190	280	36	706.5
—	175	150	100	280M	5	457	110	560	627.5	606	455	419	496	190	280	36	706.5
—	215	175	125	315S	5	508	115	615	627.5	606	455	406	490	216	315	40	743
—	250,270	215	150	315M	5	508	115	615	627.5	606	455	457	540	216	315	40	743

B3 Dimensions 尺寸					Shaft 出力軸尺寸										Wt.重量		
					Shaft End								Bearings		Foot mounted		
HE	K	KK	L	LE	D	E	ED	EE	F	G	GA	DH	Load Side	Opposite	IE1	IE2	IE3
30	7	22	222	79	11	23	18	--	4	8.5	12.5	M4*10	6201ZZ	6201ZZ	9	--	--
38.2	7	22	240.5	75.5	14	30	25	--	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	11	--	--
51	10	22	273	83	19	40	35	--	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	15	16	18
53.5	10	22	325	94	24	50	45	--	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	22	24	26
62	12	28	367	104	28	60	55	--	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	30	35	39
65	12	28	388	118	28	60	55	--	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	40	45	47
60	12	35	448	139	38	80	75	--	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	60	64	68
60	12	35	486	139	38	80	75	--	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	70	74	75
75	14.5	35	612	184	42	110	105	--	12	37	45	M16*36	6309ZZ	6307ZZ	115	120	124
75	14.5	35	656	184	42	110	105	--	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	135	137	146
90	14.5	52	670	198	48	110	105	--	14	42.5	51.5	M16*36	6311ZZ	6310ZZ	170/180	180/190	187/197
90	14.5	52	707.5	197.5	55	110	105	--	16	49.0	59.0	M20*42	6312ZZ	6310ZZ	210	212	217
94.8	18.5	60	803	225	60	140	135	--	18	53.0	64.0	M20*42	6313ZZ	6212ZZ	280/310	293/323	300/330
122	18.5	92	811	236	65	140	135	--	18	58.0	69.0	M20*42	6315ZZC3	6213ZZC3	360	367	390
152	24	92	912.5	293.5	75	140	135	--	20	67.5	79.5	M20*42	6316ZZC3	6313ZZC3	513	543	560
152	24	92	912.5	255.5	75	140	135	--	20	67.5	79.5	M20*42	6316ZZC3	6313ZZC3	552	555	570
82	24	--	1103.5	375.5	85	170	140	157	22	76	90	--	NU320C3	6316	--	--	--
82	24	--	1154.5	375.5	85	170	140	157	22	76	90	--	NU320C3	6316	--	--	--
117	28	--	1191	399	95	170	140	157	25	86	100	--	NU320C3	6316	--	--	--
117	28	--	1242	399	95	170	140	157	25	86	100	--	NU320C3	6316	--	--	--

▸ ***Remark:*** 1.Tolerance of Shaft End Diameter "D": Ø11~ Ø28: j6 Ø38~ Ø48: k6 Ø55~ Ø95: m6
2.Tolerance of Shaft Center Height "H":+0 ~ -0.5 280S~315M"H": +0~-1
3.Tolerance of Guidance Diameter "N":h7

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

AE系列(立式)

AEVF	AEVJ	AEVK	AEVH	AEVT
IE1	IE2	IE3	GB3	GB2

Fukuta Standard Induction Motor, Iron-casting Frame, Flange Mounted.

(FUKUTA標準型感應電動機)

(IE1/IE2)

(IE3)

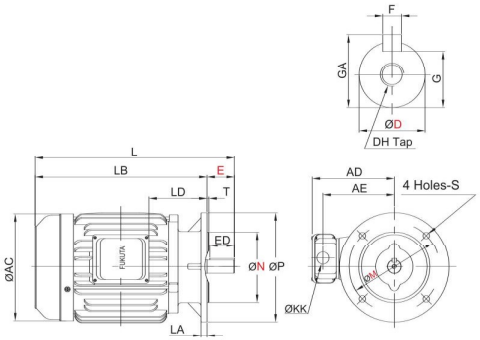


Fig.1

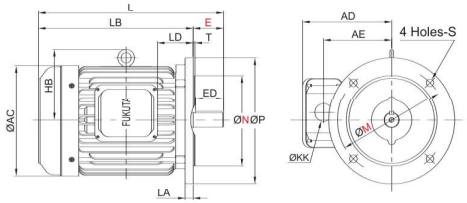


Fig.2

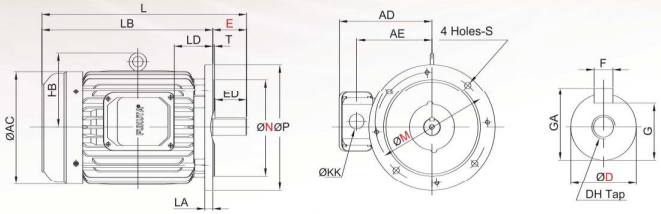


Fig.3

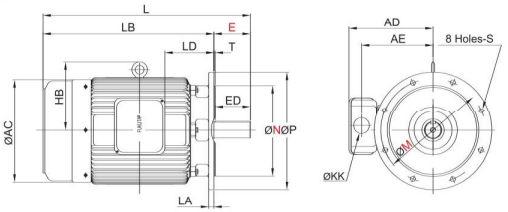


Fig.4

Specifications 規格						B5 Flange 尺寸									
Output (HP)				Frame No.	Fig.	AC	AD	AE	HB	KK	L	LA	LB	LD	M
2P	4P	6P	8P												
1/4	1/4	—	—	63	2	142	125	92	—	22	222	12	199	37	130
1/2	1/2	1/4	—	71	1	162	138	105	—	22	268.5	11.5	238.5	74	130
1	1	1/2	1/4	80	2	175	149.5	115	—	22	272.5	12	232.5	48	165
2, 3	2	1	1/2	90L	1	196	161.5	127	—	22	364	11	314	106	165
—	3	2	1	100L	2	219	176	135	141.5	28	367	16	307	71	215
5	5	3	2	112M	3	234	187	144.5	152	28	428	15	368	118	215
7.5,10	7.5	5	3	132S	3	268	221.5	179	178	35	448	19	368	74.5	265
—	10	7.5	5	132M	3	268	221.5	179	178	35	486	19	406	93.5	265
15, 20	15	10	7.5	160M	4	319	253	211	215	35	612	20	502	128.5	300
25	20	15	10	160L	4	319	253	211	215	35	656	20	546	151	300
30	25, 30	20	15	180M	4	355	302.5	245	239	52	668	20	558	151.5	350
40	40	25, 30	20	180L	4	355	302.5	245	239	52	707.5	20	597.5	170.5	350
50,60	50, 60	40, 50	25, 30	200L	4	399	332	274	264	60	803	20	666	163	400

B5 Flange 尺寸				Shaft 出力軸尺寸									Wt.重量		
				Shaft End							Bearings		Flange mounted		
N	P	S	T	D	E	ED	F	G	GA	DH	Load Side	Opposite	IE1	IE2	IE3
110	160	10	3.0	11	23	18	4	8.5	12.5	M4*10	6201ZZ	6201ZZ	9	--	--
110	160	10	3.5	14	30	25	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	11	--	--
130	200	12	3.5	19	40	35	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	16	17	19
130	200	12	3.5	24	50	45	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	25	27	29
180	250	15	3.5	28	60	55	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	33	38	42
180	250	15	4.0	28	60	55	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	45	50	52
230	300	15	4.0	38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	65	69	73
230	300	15	4.0	38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	75	79	80
250	350	19	5.0	42	110	105	12	37	45	M16*36	6309ZZ	6307ZZ	120	125	129
250	350	19	5.0	42	110	105	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	140	142	151
300	400	19	5.0	48	110	105	14	42.5	51.5	M16*36	6311ZZ	6310ZZ	175/180	185/190	195/200
300	400	19	5.0	55	110	105	16	49.0	59.0	M20*42	6312ZZ	6310ZZ	220	222	227
350	450	19	5.0	60	140	135	18	53.0	64.0	M20*42	6313ZZ	6212ZZ	280/300	293/323	300/330

▸ ***Remark:*** 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

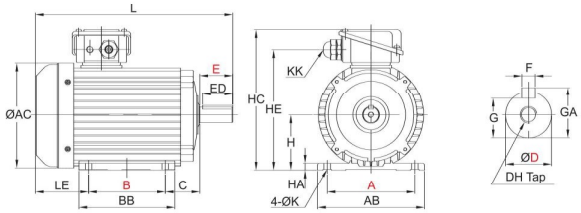
由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

AM系列(臥式)

AMEF	AMEJ	AMEH
IE1	IE2	GB3

Fukuta Standard Induction Motor, Aluminum Frame.
(FUKUTA輕量型感應電動機)

(B3)



Specifications 規格					B3 Dimensions 尺寸													Shaft 出力軸尺寸									Wt. 重量	
Output (HP)				Frame No.														Shaft End						Bearings			Foot mounted	
2P	4P	6P	8P		A	AB	AC	B	BB	C	H	HA	HC	HE	K	KK	L	LE	D	E	ED	F	G	GA	DH	Load Side	Opposite	IE1	IE2
1/8, 1/4	1/8, 1/4	—	—	63	100	120	112	80	106	40	63.0	8.5	179	146	7	MG20	212.0	69	11	23	18	4	8.5	12.5	M4*10	6201ZLU	6201ZLU	5.5	--
1/2	1/2	1/4	—	71	112	140	133	90	119	45	71.0	8.0	195	162	7	MG20	245.0	80.0	14	30	25	5	11.0	16.0	M5*12.5	6202ZLU	6202ZLU	9	--
1	1	1/2	—	80	125	155	156	100	130	49.5	80.0	9.0	212	179.5	10	MG20	274.5	85.0	19	40	35	6	15.5	21.5	M6*16	6204ZLU	6203ZLU	12	13
2、3	2	1	1/2	90L	140	170	175	125	150	56	90.0	11.0	232.5	199.5	10	MG20	322.0	91.0	24	50	45	8	20.0	27.0	M8*19	6205ZLU	6204ZLU	18	19
—	3	2	1	100L	160	195	192	140	175	63	100.0	12.5	260	220	12	PG21	360.0	97.0	28	60	55	8	24.0	31.0	M10*22	6206ZLU	6205ZLU	23	25
5	5	3	2	112M	190	224	219	140	175	70	112.0	14.0	280	245	12	PG21	391.0	121.0	28	60	55	8	24.0	31.0	M10*22	6306ZLU	6305ZLU	31	36
7.5,10	7.5	5	3	132S	216	250	268	140	180	89	132.0	16.0	332.0	290	13	Ø35	449.0	140.0	38	80	75	10	33.0	41.0	M12*28	6308ZLU	6306ZLU	50	55

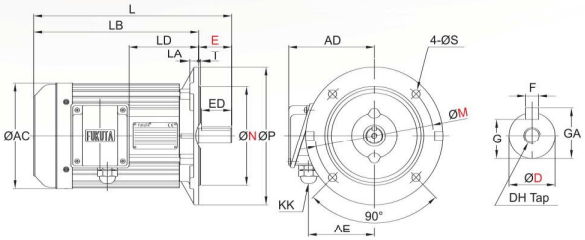
▸ ***Remark:*** 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

AM系列(立式)

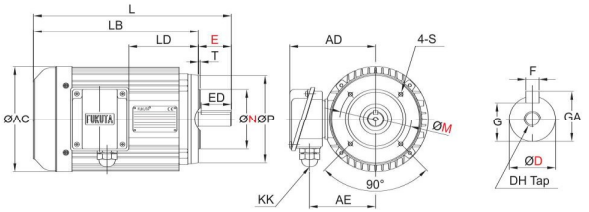
AMVF/AMVB(B14)	AMVJ	AMVH
IE1	IE2	GB3

Fukuta Standard Induction Motor, Aluminum Frame.
(FUKUTA輕量型感應電動機)

(B5)



(B14)



Shaft 出力軸尺寸									B5/B14 Flange 尺寸						B5 Flange 尺寸						B14 Flange 尺寸					Wt. 重量	
Shaft End							Bearings																			Foot mounted	
D	E	ED	F	G	GA	DH	Load Side	Opposite	AC	AD	AE	L	LB	LD	LA	M	N	P	S	T	M	N	P	S	T	IE1	IE2
11	23	18	4	8.5	12.5	M4*10	6201ZLU	6201ZLU	112	116	83.0	212.0	189.0	66.0	10	130	110	160	10	3.5	75	60	90	M5*10	2.5	6	--
14	30	25	5	11.0	16.0	M5*12.5	6202ZLU	6202ZLU	133	124	91.0	245.0	215.0	80.5	12	130	110	160	10	3.5	85	70	105	M6*11	2.5	9	--
19	40	35	6	15.5	21.5	M6*16	6204ZLU	6203ZLU	156	132	99.0	274.5	234.5	86.0	12	165	130	200	12	3.5	100	80	120	M6*11	3.0	13	14
24	50	45	8	20.0	27.0	M8*19	6205ZLU	6204ZLU	175	142.5	109.5	322.0	272.0	118.5	12	165	130	200	12	3.5	115	95	140	M8*15	3.5	19	20
28	60	55	8	24.0	31.0	M10*22	6206ZLU	6205ZLU	192	160	120.0	360.0	300.0	126.5	16	215	180	250	15	3.5	130	110	160	M8*15	3.5	25	27
28	60	55	8	24.0	31.0	M10*22	6306ZLU	6305ZLU	219	173	133.0	391.0	331.0	142.0	16	215	180	250	15	4.0	130	110	160	M8*15	3.5	34	39
38	80	75	10	33.0	41.0	M12*28	6308ZLU	6306ZLU	268	201.0	158.5	449.0	369.0	137.0	19	265	230	300	15	4.0	165	130	202	M10*20	4.0	55	60

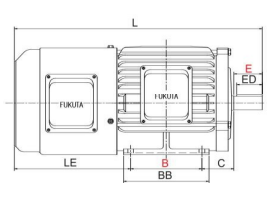
▸ ***Remark:*** 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

G,D系列(臥式)

GFEF/DFEF

Inverter Motor, Iron-casting Frame, Foot Mounted.

[FUKUTA變頻馬達]



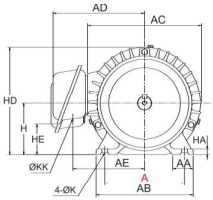


Fig.1

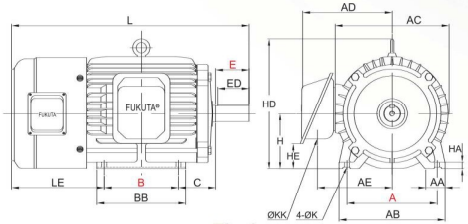


Fig.2

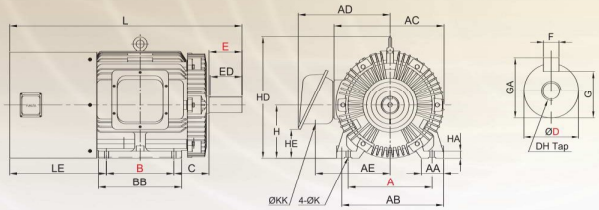


Fig.3

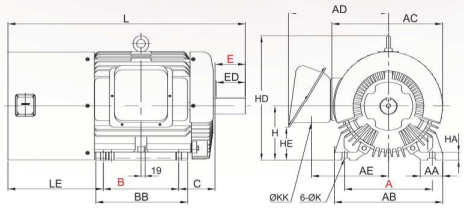


Fig.4

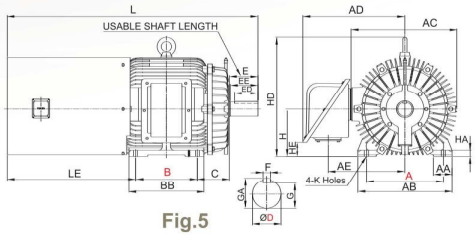


Fig.5

Specifications 規格						B3 Dimensions 尺寸											
Output (HP)				Frame No.	Fig.	A	AA	AB	AC	AD	AE	B	BB	C	H	HA	HD
2P	4P	6P	8P														
1/4	1/4	—	—	63	1	100	28	120	143	125	94	80	100	40	63	8	134
1/2	1/2	1/4	—	71	1	112	37.5	138	163.5	137.5	104	90	119	45	71	11	152
1	1	1/2	1/4	80	1	125	38	155	176	149	114.5	100	130	50	80	9	168
2, 3	2	1	1/2	90L	1	140	35.5	170	200	160.5	126	125	150	56	90	10	188
—	3	2	1	100L	2	160	45	196	217.5	177	135	140	175	63	100	12.5	243
5	5	3	2	112M	2	190	45	224	238	187	145	140	175	70	112	14	265
7.5,10	7.5	5	3	132S	2	216	46	254	273	221.5	180	140	175	89	132	16	310
—	10	7.5	5	132M	2	216	46	254	273	222	179	178	213	89	132	16	310
15, 20	15	10	7.5	160M	3	254	75	300	330	253	211	210	256	108	160	18	373
25	20	15	10	160L	3	254	75	300	330	253	211	254	300	108	160	18	373
30	25, 30	20	15	180M	3	279	80	355	381	300.5	243	241	297	121	180	20	421
40	40	25, 30	20	180L	3	279	80	355	381	300.5	243	279	335	121	180	20	421
50,60	50, 60	40, 50	25, 30	200L	3	318	80	398	421	331	273.5	305	350	133	200	24	469
—	75	60	40	225S	3	356	94.5	453	467.5	391	316.8	286	354	149	225	30	515
—	100	75	50	250S	4	406	104	501	511.5	473	355.9	311	425	168	250	37	573.5
—	125	100	60	250M	4	406	104	501	511.5	473	355.9	349	425	168	250	37	573.5
—	150	125	75	280S	5	457	110	560	627.5	606	455	368	445	190	280	36	706.5
—	175	150	100	280M	5	457	110	560	627.5	606	455	419	496	190	280	36	706.5
—	200,215	175	125	315S	5	508	115	615	627.5	606	455	406	490	216	315	40	743
—	250,270	215	150	315M	5	508	115	615	627.5	606	455	457	540	216	315	40	743

B3 Dimensions 尺寸					Shaft 出力軸尺寸										Wt.重量
					Shaft End								Bearings		Foot mounted
HE	K	KK	L	LE	D	E	ED	EE	F	G	GA	DH	Load Side	Opposite	
30	7	22	323	180	11	23	18	--	4	8.5	12.5	M4*10	6201ZZ	6201ZZ	9
38	7	22	314.5	149.5	14	30	25	--	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	11
51	10	22	378	188	19	40	35	--	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	15
53.5	10	22	435	204	24	50	45	--	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	22
62	12	28	467	204	28	60	55	--	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	30
65	12	28	482.5	212.5	28	60	55	--	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	40
60	12	35	531	222	38	80	75	--	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	60
60	12	35	569	222	38	80	75	--	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	70
75	14.5	35	738	310	42	110	105	--	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	115
75	14.5	35	782	310	42	110	105	--	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	135
90	14.5	52	776.5	305	48	110	105	--	14	42.5	51.5	M16*36	6311ZZ	6310ZZ	170/180
90	14.5	52	814.5	304.5	55	110	105	--	16	49.0	59.0	M20*42	6312ZZ	6310ZZ	210
120.5	18.5	60	887	309	60	140	135	--	18	53.0	64.0	M20*42	6313ZZ	6212ZZ	280/300
122	18.5	92	985.5	410.5	65	140	135	--	18	58.0	69.0	M20*42	6315ZZC3	6213ZZC3	360
152	24	92	1099.5	480.5	75	140	135	--	20	67.5	79.5	M20*42	6316ZZC3	6313ZZC3	513
152	24	92	1099.5	442.5	75	140	135	--	20	67.5	79.5	M20*42	6316ZZC3	6313ZZC3	552
82	24	--	1489.5	761.5	85	170	140	157	22	76	90	---	NU320C3	6316	--
82	24	--	1540.5	761.5	85	170	140	157	22	76	90	---	NU320C3	6316	--
117	28	--	1577	782	95	170	140	157	25	86	100	---	NU320C3	6316	--
117	28	--	1628	782	95	170	140	157	25	86	100	---	NU320C3	6316	--

▸ ***Remark:*** 1.Tolerance of Shaft End Diameter "D": Ø11~ Ø28: j6 Ø38~ Ø48: k6 Ø55~ Ø95: m6
2.Tolerance of Shaft Center Height "H":+0 ~ -0.5 280S~315M"H": +0~-1
3.Tolerance of Guidance Diameter "N":h7

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

G,D系列(立式)

GFVF/DFVF

Inverter Motor, Iron-casting Frame, Flange Mounted.

[FUKUTA變頻馬達]

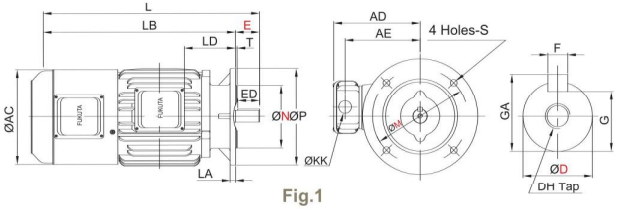


Fig.1

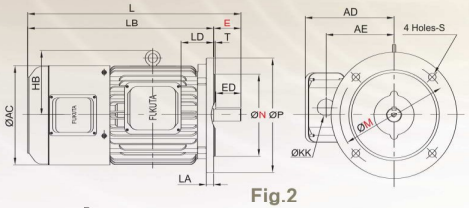
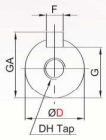


Fig.2



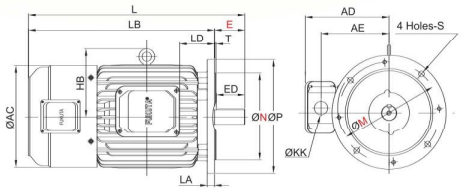


Fig.3

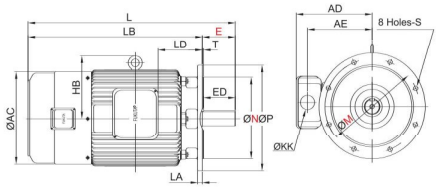


Fig.4

Specifications 規格						B5 Flange 尺寸									
Output (HP)				Frame No.	Fig.	AC	AD	AE	HB	KK	L	LA	LB	LD	M
2P	4P	6P	8P												
1/4	1/4	—	—	63	2	142	131	93	—	22	323	12	300	36	130
1/2	1/2	1/4	—	71	1	162	141	106	—	22	342	11.5	312	74	130
1	1	1/2	1/4	80	2	175	154.5	113.5	—	22	378	10	338	48.5	165
2, 3	2	1	1/2	90L	1	196	165	127	—	22	474	11	424	106	165
—	3	2	1	100L	2	219	176.5	135	141.5	28	468.5	16	408.5	71	215
5	5	3	2	112M	1	234	187	144.5	152.5	28	522.5	15	462.5	118	215
7.5, 10	7.5	5	3	132S	3	268	221.5	179	178	35	531	19	451	74.5	265
—	10	7.5	5	132M	3	268	221.5	179	178	35	569	19	489	93.5	265
15, 20	15	10	7.5	160M	4	319	253	211	215	35	738	20	628	128.5	300
25	20	15	10	160L	4	319	253	211	215	35	782	20	672	151	300
30	25, 30	20	15	180M	4	355	302.5	243	239	52	776.5	20	666.5	151.5	350
40	40	25, 30	20	180L	4	355	302.5	243	239	52	814.5	20	704.5	170.5	350
50,60	50, 60	40, 50	25, 30	200L	4	395	332	274	264	60	887	20	747	188.5	400

B5 Flange 尺寸				Shaft 出力軸尺寸									Wt.重量
				Shaft End							Bearings		Flange mounted
N	P	S	T	D	E	ED	F	G	GA	DH	Load Side	Opposite	
110	160	10	3.0	11	23	18	4	8.5	12.5	M4*10	6201ZZ	6201ZZ	9
110	160	10	3.5	14	30	25	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	12
130	200	12	3.5	19	40	35	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	16
130	200	12	3.5	24	50	45	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	25
180	250	15	3.5	28	60	55	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	33
180	250	15	4.0	28	60	55	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	45
230	300	15	4.0	38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	65
230	300	15	4.0	38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	75
250	350	19	5.0	42	110	105	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	120
250	350	19	5.0	42	110	105	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	140
300	400	19	5.0	48	110	105	14	42.5	51.5	M16*36	6311ZZ	6310ZZ	175/180
300	400	19	5.0	55	110	105	16	49.0	59.0	M20*42	6312ZZ	6310ZZ	220
350	450	19	5.0	60	140	135	18	53.0	64.0	M20*42	6313ZZ	6212ZZ	280/300

▸ ***Remark:*** 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

T,V 系列(臥式)

TFEF/VFEF

Inverter Duty Motor, Iron-casting Frame, Foot Mounted.

(FUKUTA變頻專用馬達)

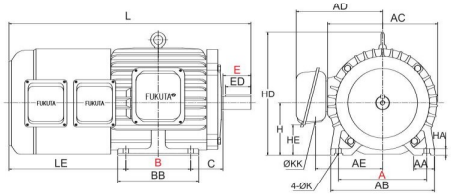


Fig.1

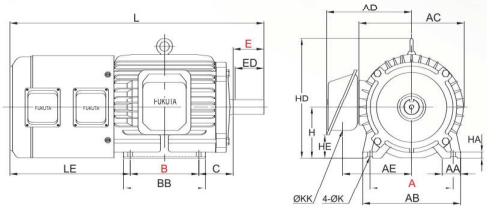


Fig.2

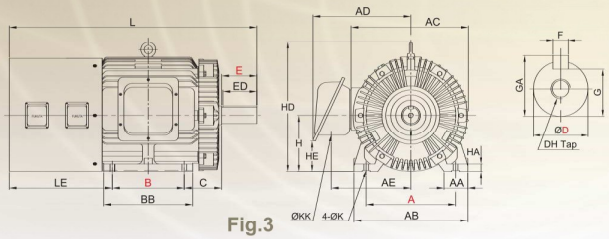


Fig.3

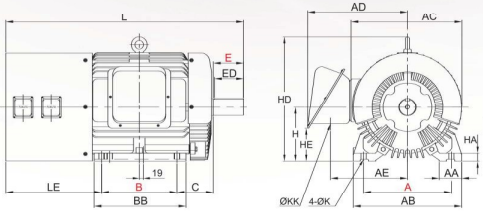


Fig.4

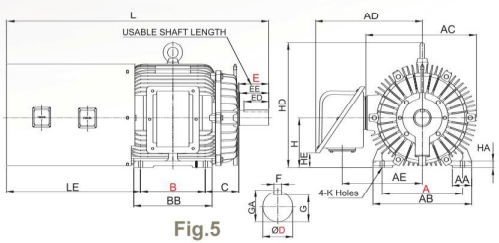


Fig.5

Specifications 規格						B3 Dimensions 尺寸											
Output (HP)				Frame No.	Fig.	A	AA	AB	AC	AD	AE	B	BB	C	H	HA	HD
2P	4P	6P	8P														
1/4	1/4	—	—	63	1	100	28	120	144	134	94.5	80	100	40	63	8	135
1/2	1/2	1/4	—	71	1	112	37.5	138	162	144	103.5	90	119	45	71	11	152
1	1	1/2	1/4	80	1	125	38	155	176	149	114.5	100	130	50	80	9	168
2, 3	2	1	1/2	90L	1	140	35.5	170	200	160.5	126	125	150	56	90	10	190
—	3	2	1	100L	2	160	45	196	217	177	135	140	175	63	100	12.5	241.5
5	5	3	2	112M	2	190	45	224	238	187	145	140	175	70	112	14	264.5
7.5, 10	7.5	5	3	132S	2	216	46	254	273	222	179	140	175	89	132	16	310
—	10	7.5	5	132M	2	216	46	254	273	222	179	178	213	89	132	16	310
15, 20	15	10	7.5	160M	3	254	75	300	330	253	211	210	256	108	160	18	373
25	20	15	10	160L	3	254	75	300	330	253	211	254	300	108	160	18	373
30	25, 30	20	15	180M	3	279	80	355	381	301	243	241	297	121	180	20	417
40	40	25, 30	20	180L	3	279	80	355	381	301	243	279	335	121	180	20	421
50, 60	50, 60	40, 50	25, 30	200L	3	318	80	398	421	331.5	273.5	305	350	133	200	24	469
—	75	60	40	225S	3	356	94.5	453	467.5	391.5	316.8	286	354	149	225	30	515
—	100	75	50	250S	4	406	104	501	511.5	474	356	311	425	168	250	37	573.5
—	125	100	60	250M	4	406	104	501	511.5	474	356	349	425	168	250	37	573.5
—	150	125	75	280S	5	457	110	560	627.5	606	455	368	445	190	280	36	706.5
—	175	150	100	280M	5	457	110	560	627.5	606	455	419	496	190	280	36	706.5
—	215	175	125	315S	5	508	115	615	627.5	606	455	406	490	216	315	40	743
—	250,270	215	150	315M	5	508	115	615	627.5	606	455	457	540	216	315	40	743

B3 Dimensions 尺寸					Shaft 出力軸尺寸										Wt.重量
					Shaft End								Bearings		Foot mounted
HE	K	KK	L	LE	D	E	ED	EE	F	G	GA	DH	Load Side	Opposite	
29	7	22	338	195	11	23	18	--	4	8.5	12.5	M4*10	6201ZZ	6201ZZ	9
38	7	22	394.5	229.5	14	30	25	--	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	11
51	10	22	414.5	224.5	19	40	35	--	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	15
53.5	10	22	465	234	24	50	45	--	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	22
62	12	28	497	234	28	60	55	--	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	30
65	12	28	522.5	252.5	28	60	55	--	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	40
60	12	35	621	312	38	80	75	--	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	60
60	12	35	659	312	38	80	75	--	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	70
75	14.5	35	768	340	42	110	105	--	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	115
75	14.5	35	812	340	42	110	105	--	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	135
90	14.5	52	802	330	48	110	105	--	14	42.5	51.5	M16*36	6311ZZ	6310ZZ	170/180
90	14.5	52	840	330	55	110	105	--	16	49.0	59.0	M20*42	6312ZZ	6310ZZ	210
120.5	18.5	60	937	359	60	140	135	--	18	53.0	64.0	M20*42	6313ZZ	6212ZZ	280/300
122	18.5	92	985.5	410.5	65	140	135	--	18	58.0	69.0	M20*42	6315ZZC3	6213ZZC3	360
152	24	92	1099.5	480.5	75	140	135	--	20	67.5	79.5	M20*42	6316ZZC3	6313ZZC3	513
152	24	92	1099.5	442.5	75	140	135	--	20	67.5	79.5	M20*42	6316ZZC3	6313ZZC3	552
82	24	--	1489.5	761.5	85	170	140	157	22	76	90	---	NU320C3	6316	--
82	24	--	1540.5	761.5	85	170	140	157	22	76	90	---	NU320C3	6316	--
117	28	--	1577	782	95	170	140	157	25	86	100	---	NU320C3	6316	--
117	28	--	1628	782	95	170	140	157	25	86	100	---	NU320C3	6316	--

▸ ***Remark:*** 1.Tolerance of Shaft End Diameter "D": Ø11～ Ø28: j6 Ø38～ Ø48: k6 Ø55～ Ø95: m6
2.Tolerance of Shaft Center Height "H": +0 ～ -0.5 280S～315M"H": +0～-1
3.Tolerance of Guidance Diameter "N":h7

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

T,V 系列(立式)

TFVF/VFVF

Inverter Duty Motor, Iron-casting Frame, Foot Mounted.

[FUKUTA變頻專用馬達]

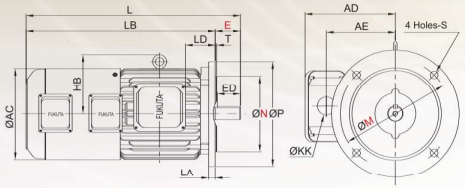


Fig.2

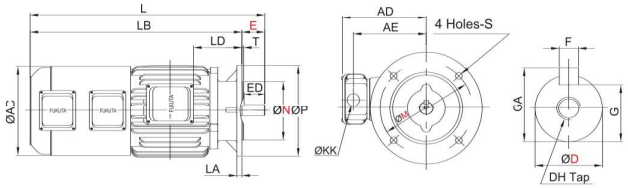


Fig.1

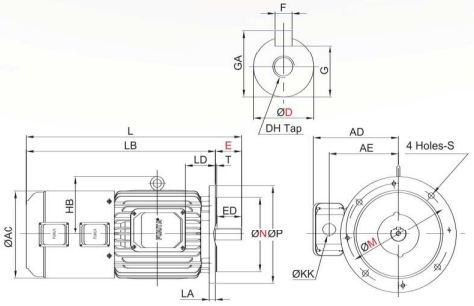


Fig.3

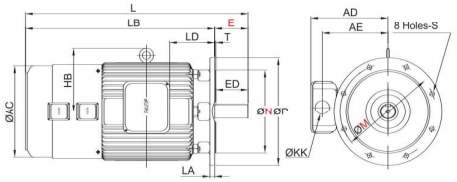


Fig.4

Specifications 規格						B5 Flange 尺寸									
Output (HP)				Frame No.	Fig.	AC	AD	AE	HB	KK	L	LA	LB	LD	M
2P	4P	6P	8P												
1/4	1/4	—	—	63	**2**	142	132	93	—	22	338	12	315	36	130
1/2	1/2	1/4	—	71	**1**	161	142	106	—	22	422.5	11.5	392.5	74	130
1	1	1/2	1/4	80	**2**	175	154.5	113.5	—	22	429	10	389	50	165
2, 3	2	1	1/2	90L	**1**	196	165	127	—	22	514	11	464	106	165
—	3	2	1	100L	**2**	219	176	135	141.5	28	513.5	16	453.5	71	215
5	5	3	2	112M	**2**	234	187	144.5	152.5	28	577.5	15	517.5	118	215
7.5, 10	7.5	5	3	132S	**3**	268	221.5	179	178	35	621	19	541	74.5	265
—	10	7.5	5	132M	**3**	268	221.5	179	178	35	659	19	579	93.5	265
15, 20	15	10	7.5	160M	**4**	319	253	211	215	35	768	20	658	128.5	300
25	20	15	10	160L	**4**	319	253	211	215	35	812	20	702	151	300
30	25, 30	20	15	180M	**4**	355	303	243	239	52	806.5	20	696.5	151.5	350
40	40	25, 30	20	180L	**4**	355	303	243	239	52	844.5	20	734.5	170.5	350
50, 60	50, 60	40, 50	25, 30	200L	**4**	397	332	274	264	60	937	20	797	188.5	400

B5 Flange 尺寸				Shaft 出力軸尺寸									Wt.重量
				Shaft End							Bearings		Flange mounted
N	P	S	T	D	E	ED	F	G	GA	DH	Load Side	Opposite	
110	160	10	3.0	11	23	18	4	8.5	12.5	M4*10	6201ZZ	6201ZZ	9
110	160	10	3.5	14	30	25	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	12
130	200	12	3.5	19	40	35	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	16
130	200	12	3.5	24	50	45	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	25
180	250	15	3.5	28	60	55	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	33
180	250	15	4.0	28	60	55	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	45
230	300	15	4.0	38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	65
230	300	15	4.0	38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	75
250	350	19	5.0	42	110	105	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	120
250	350	19	5.0	42	110	105	12	37.0	45.0	M16*36	6309ZZ	6307ZZ	140
300	400	19	5.0	48	110	105	14	42.5	51.5	M16*36	6311ZZ	6310ZZ	175/180
300	400	19	5.0	55	110	105	16	49.0	59.0	M20*42	6312ZZ	6310ZZ	220
350	450	19	5.0	60	140	135	18	53.0	64.0	M20*42	6313ZZ	6212ZZ	280/300

▸ ***Remark:*** 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

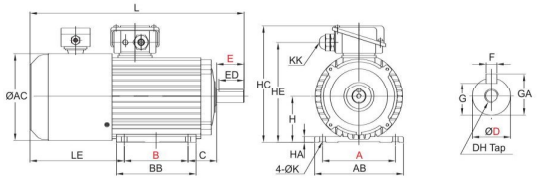
由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

DM系列(臥式)

DMEF

Light Weight type Inverter Motor.
[FUKUTA輕量型變頻馬達]

[B3]



Specifications 規格					B3 Dimensions 尺寸													Shaft 出力軸尺寸									Wt. 重量
Output (HP)				Frame No.														Shaft End							Bearings		Foot mounted
2P	4P	6P	8P		A	AB	AC	B	BB	C	H	HA	HC	HE	K	KK	L	LE	D	E	ED	F	G	GA	DH	Load Side	Opposite	
1/2	1/2	1/4	—	71	112	140	133	90	119	45	71.0	8.0	194.5	162	7	MG20	345.0	180.0	14	30	25	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	9
1	1	1/2	—	80	125	155	156	100	130	50	80.0	9.0	214.0	179.5	10	MG20	343.5	153.5	19	40	35	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	12
2、3	2	1	1/2	90L	140	170	175	125	150	56	90.0	11.0	233.5	199.5	10	MG20	427.0	196.0	24	50	45	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	18
—	3	2	1	100L	160	195	192	140	175	63	100.0	12.5	259.5	220	12	PG21	470.0	207.0	28	60	55	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	23
5	5	3	2	112M	190	224	219	140	175	70	112.0	14.0	284.5	245	12	PG21	488.0	218.0	28	60	55	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	31
7.5,10	7.5	5	3	132S	216	250	268	140	180	89	132	16.0	332.0	290	13	Ø35	532.0	223.0	38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	50

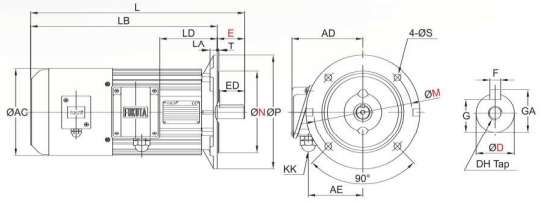
Remark: 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

DM系列(立式)

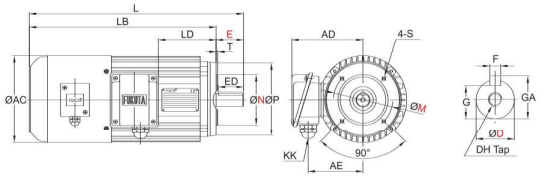
DMVF | DMVB

Light Weight type Inverter Motor.
[FUKUTA輕量型變頻馬達]

[B5]



[B14]



Shaft 出力軸尺寸									B5/B14 Flange 尺寸						B5 Flange 尺寸						B14 Flange 尺寸					Wt. 重量
Shaft End							Bearings																			Flange mounted
D	E	ED	F	G	GA	DH	Load Side	Opposite	AC	AD	AE	L	LB	LD	LA	M	N	P	S	T	M	N	P	S	T	
14	30	25	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	133	123.5	91.0	345.0	315.0	80.5	12	130	110	160	10	3.5	85	70	105	M6*11	2.5	9
19	40	35	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	156	131.5	99.0	343.5	303.0	86.0	12	165	130	200	12	3.5	100	80	120	M6*11	3.0	13
24	50	45	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	175	142.0	109.5	427.0	377.0	118.5	12	165	130	200	12	3.5	115	95	140	M8*15	3.5	19
28	60	55	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	192	159.5	120.0	470.0	410.0	126.5	16	215	180	250	15	3.5	130	110	160	M8*15	3.5	25
28	60	55	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	219	172.5	133.0	488.0	428.0	142.0	16	215	180	250	15	4.0	130	110	160	M8*15	3.5	34
38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	268	200.0	158.5	532.0	452.0	137.0	19	265	230	300	15	4.0	165	130	202	M10*20	4.0	55

Remark: 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

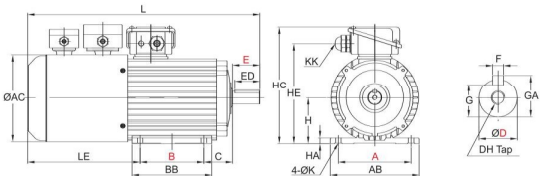
由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

VM系列(臥式)

VMEF

Light Weight type Inverter duty Motor.
[FUKUTA輕量型變頻專用馬達]

[B3]



Specifications 規格					B3 Dimensions 尺寸													Shaft 出力軸尺寸									Wt. 重量
Output (HP)				Frame No.														Shaft End							Bearings		Foot mounted
2P	4P	6P	8P		A	AB	AC	B	BB	C	H	HA	HC	HE	K	KK	L	LE	D	E	ED	F	G	GA	DH	Load Side	Opposite	
1/2	1/4, 1/2	1/4	—	71	112	140	133	90	119	45	71.0	8.0	194.5	162	7	MG20	370.0	205.0	14	30	25	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	9
1	1	1/2	—	80	125	155	156	100	130	50	80.0	9.0	223.0	179.5	10	MG20	423.5	233.5	19	40	35	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	12
2，3	2	1	1/2	90L	140	170	175	125	150	56	90.0	11.0	242.5	199.5	10	MG20	477.0	246.0	24	50	45	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	18
—	3	2	1	100L	160	195	192	140	175	63	100.0	12.5	259.5	220	12	PG21	510.0	247.0	28	60	55	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	23
5	5	3	2	112M	190	224	219	140	175	70	112.0	14.0	284.5	245	12	PG21	533.0	263.0	28	60	55	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	31
7.5,10	7.5	5	3	132S	216	250	268	140	180	89	132	16.0	332.5	290	13	Ø35	622.0	313.0	38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	50

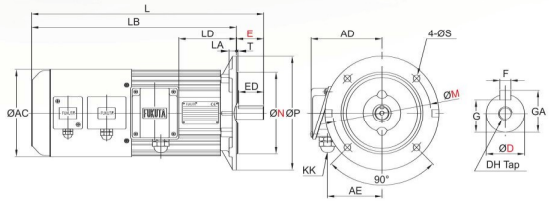
▸ ***Remark:*** 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

VM系列(立式)

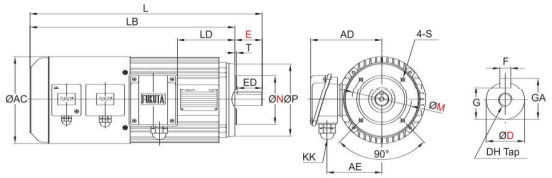
VMVF VMVB

Light Weight type Inverter duty Motor.
[FUKUTA輕量型變頻專用馬達]

[B5]



[B14]



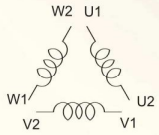
Shaft 出力軸尺寸									B5/B14 Flange 尺寸						B5 Flange 尺寸						B14 Flange 尺寸					Wt. 重量
Shaft End							Bearings																			Flange mounted
D	E	ED	F	G	GA	DH	Load Side	Opposite	AC	AD	AE	L	LB	LD	LA	M	N	P	S	T	M	N	P	S	T	
14	30	25	5	11.0	16.0	M5*12.5	6202ZZ	6202ZZ	133	131.5	91.0	370.0	340.0	80.5	12	130	110	160	10	3.5	85	70	105	M6*11	2.5	9
19	40	35	6	15.5	21.5	M6*16	6204ZZ	6203ZZ	156	143.0	99.0	423.5	383.0	86.0	12	165	130	200	12	3.5	100	80	120	M6*11	3.0	13
24	50	45	8	20.0	27.0	M8*19	6205ZZ	6204ZZ	175	152.5	109.5	477.0	427.0	118.5	12	165	130	200	12	3.5	115	95	140	M8*15	3.5	19
28	60	55	8	24.0	31.0	M10*22	6206ZZ	6205ZZ	192	159.5	120.0	510.0	450.0	126.5	16	215	180	250	15	3.5	130	110	160	M8*15	3.5	25
28	60	55	8	24.0	31.0	M10*22	6306ZZ	6305ZZ	219	172.5	133.0	533.0	473.0	142.0	16	215	180	250	15	4.0	130	110	160	M8*15	3.5	34
38	80	75	10	33.0	41.0	M12*28	6308ZZ	6306ZZ	268	201.0	158.5	622.0	541.0	137.0	19	265	230	300	15	4.0	165	130	202	M10*20	4.0	55

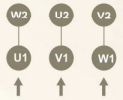
▸ ***Remark:*** 1.Tolerance of Shaft End Diameter"D":Ø11~Ø28: j6 Ø38~Ø48: k6 Ø55~Ø75:m6 2.Tolerance of Shaft Center Height"H":+0~-0.5
3.Tolerance of Guidance Diameter "N":h7

由於對產品持續研發，故對於產品特性規格如有變動，本公司將不另行通知

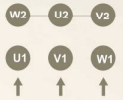
Wiring Diagram 結線圖

6 output wire



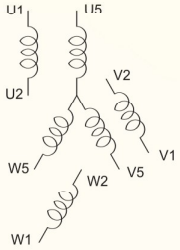


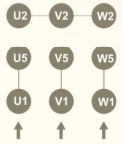
Power line
Low volt
Run
(Δ)



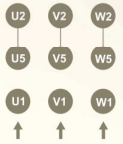
Power line
High volt
Start
(⅄)

9 output wire



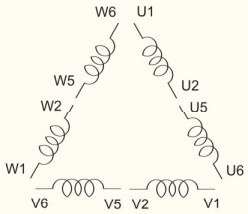


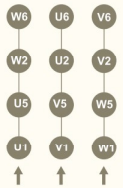
Power line
Low volt
(2⅄)



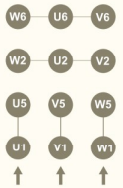
Power line
High volt
(⅄)

12 output wire



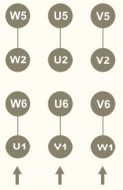


Power line
Run
(2Δ)

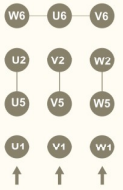


Power line
Start
(2⅄)

Low volt



Power line
Run
(Δ)



Power line
Start
(⅄)

High volt

D,V,G,T 系列強制風車資料

框號	相	電壓	頻率	電流
Frame	PHASE	VOLTS	HZ	AMPS
F#90	1	220	50/60	0.11/0.15
F#100	1	220	50/60	0.11/0.15
F#112	1	220	50/60	0.11/0.15
F#132	1	220	50/60	0.22/0.17
F#160	1	220	50/60	0.25/0.33
F#180	1	220	50/60	0.29/0.35
F#200	1	220	50/60	0.59/0.82
F#225	1	220	50/60	0.3/0.4
F#250	1	220	50/60	0.3/0.4

※以上風扇使用依馬達散熱設計條件配置

◎ 此份型錄所載有關產品之細節，包含特性與規格尺寸為交付印刷廠時之正確數據無誤。
由於對產品持續研發之故，對於產品特性規格，本公司保留有隨時更改之權利。

All detail and specifications are correct at time of going to press, We reserve the right to make changes without notice in the course of continued development.