

# FUKUTA®

*The Energy Within*

**Standard Induction Motor**

**AE SERIES** 標準型感應電動機

**AM SERIES** 輕量型感應電動機

**IE1 / IE3 / GB3**



[www.fukuta-motor.com.tw](http://www.fukuta-motor.com.tw)

# FUKUTA®

## INTRODUCTION



### 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 company's substantial prosperity.

**ENTHUSIASM** 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.

**HONESTY** 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.

## HISTORY

|        |                                                                                                                                                                                                                  |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1988 年 | 4 月公司成立。                                                                                                                                                                                                         |
| 1990 年 | 投資成立矽鋼片沖壓廠，朝向垂直整合經營模式。                                                                                                                                                                                           |
| 1993 年 | 全國第一家投入研發「變頻專用馬達」。                                                                                                                                                                                               |
| 1996 年 | 通過 ISO-9002 國際品質認證。                                                                                                                                                                                              |
| 1997 年 | 全國第一家投入研發「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。<br>(2). 全系列產品通過 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。<br>(2). 投資成立高精度低背隙減速機製造廠(寰宇精密股份有限公司)，朝向水平整合經營模式。                                                                                                                              |
| 2001 年 | (1). 「變頻專用馬達」榮獲第十屆台灣精品標誌。<br>(2). 「100HP 及 150HP 感應伺服馬達」獲得經濟部技術處 SBIR 計畫補助。<br>(3). 全系列產品通過 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。<br>(2). 榮獲台中縣第一屆金手獎表揚。<br>(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 CITA 計畫補助。<br>(2). AEEH/AEVH/AMEH/AMVH 系列通過中華民國高效率感應馬達認證。<br>(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。<br>(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、美國電動車廠分別簽訂「風力發電機、轆跑車馬達(全電式)」技術合作案。<br>(2). 投資成立上海鑫永電機科技有限公司(上海市奉賢區柘林鎮)，朝向跨國整合經營模式。                                                                                                                      |
| 2006 年 | (1). 標準馬達全系列通過中華人民共和國 CCC 強制性產品認證。<br>(2). 榮獲經濟部技術處 SBIR 計畫 2004 年度續優執行廠商表揚。<br>(3). 與高雄應用科技大學電機系合辦產業研發碩士專班。<br>(4). 榮獲經濟部技術處 2006 年度產業創新成果表揚。<br>(5). 投資成立金富田科技股份有限公司，朝向環保及能源領域整合經營模式。<br>(6). 投入高速主軸伺服馬達整合與製造。 |
| 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。<br>(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，朝向垂直整合經營模式。<br>(2). 推動電動車先進動力系統研發聯盟計畫。                                                                                                                                                           |
| 2011 年 | (1). 協助美國電動大廠核心產品測試量產。<br>(2). 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。<br>(2). 永磁同步伺服開發。                                                                                                                                                                         |
| 2013 年 | (1). PM 永磁同步伺服量產。<br>(2). 以馬達轉子榮獲國家發明創作獎之創作金牌獎。<br>(3). 榮獲美國電動大廠 全球最佳供應商獎。<br>(4). 榮獲經濟部第一屆卓越中堅企業入圍廠商。                                                                                                           |
| 2014 年 | (1). 榮獲經濟部第二屆卓越中堅企業及重點輔導對象。<br>(2). 參與經濟部工業局主導性新產品電動清潔車計畫開發計畫。<br>(3). 取得德國 TUV SUD IE3 高效率馬達專利認證。<br>(4). 電動載具專用製造廠啟用。<br>(1). 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。                                              |
| 2015 年 | (2). 榮獲經濟部第 24 屆國家磐石獎。<br>(3). 榮獲經濟部外銷績優中小企業第 18 屆小巨人獎。                                                                                                                                                          |
| 2016 年 | 新竹科學園區銅鑼廠區一專用電動載具量產生產廠區動工，預計 2019 年興建完成。                                                                                                                                                                         |
| 2017 年 | 取得全球汽車產業 TS-16949 品質管理系統認證。                                                                                                                                                                                      |
| 2018 年 | 銅鑼廠區第一期廠房正式啟用。                                                                                                                                                                                                   |
| 2019 年 | 取得 IATF 16949 認證。                                                                                                                                                                                                |
| 2020 年 | 取得 UL 認證。                                                                                                                                                                                                        |
| 2021 年 | (1). 銅鑼廠區第二期辦公大樓正式啟用，並獲美國 IDA、Muse、德國 ICONIC 等國際建築設計大獎。<br>(2). 車用永磁馬達產線投產。<br>(3). 取得 IECQ QC080000 認證。                                                                                                         |
| 2022 年 | (1). 與日本百年車廠簽訂技術開發合約。<br>(2). 打造測試電動車整車安全頂級實驗室。<br>(3). ODM 電動車最大產線投產。<br>(4). 取得 ISO-14001、45001 認證。<br>(5). 成為「公開發行公司」，股票代號 4590。                                                                              |

# 標準 AE, AM 系列規範表

## Induction Motor Characteristic

| 項 目                           |                           | 標 準 規 範                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 規 範<br>Specification          | 種類 Motor type             | <ul style="list-style-type: none"> <li>三相鼠籠式感應電動機 (SCIM)</li> <li>3 Phase squirrel cage induction motor</li> </ul>                                                                                                                                                                                                                                                                  |
|                               | 設計依據 Design Standards     | <ul style="list-style-type: none"> <li>國際電工委員會 (IEC 60034)、中華民國國家標準 (CNS 14400)</li> <li>日本工業規格協會 (JIS C4034-30)、中國國家標準 (GB 12350、GB 18613)</li> </ul>                                                                                                                                                                                                                              |
|                               | 電壓 Voltage                | <ul style="list-style-type: none"> <li>標準額定電壓 三相 220V, 380V, 415V, 440V, 460V 可依客戶需求客製化承製</li> <li>Standard Rated voltage for 220V, 380V, 415V, 440V, 460V available for customer requirement</li> </ul>                                                                                                                                                                            |
|                               | 頻率 Frequency              | <ul style="list-style-type: none"> <li>額定頻率 50 or 60HZ</li> <li>Rated frequency 50 or 60HZ</li> </ul>                                                                                                                                                                                                                                                                               |
|                               | 時間額定 Rated Time           | <ul style="list-style-type: none"> <li>連續額定</li> <li>S1 (Continuous)</li> </ul>                                                                                                                                                                                                                                                                                                     |
|                               | 保護方式 Protection Enclosure | <ul style="list-style-type: none"> <li>IP54</li> </ul>                                                                                                                                                                                                                                                                                                                              |
|                               | 冷卻方式 Method of cooling    | <ul style="list-style-type: none"> <li>全密 IC 411 自帶外扇冷卻</li> <li>IC411 Totally enclosed fan cooling</li> </ul>                                                                                                                                                                                                                                                                      |
| 使用環境<br>Ambient<br>Conditions | 安裝方式 Mounting             | <ul style="list-style-type: none"> <li>AE/AMEF: 水平安裝 (IM1001)、AE/AMVF: 凸托架安裝 (IM3001)</li> <li>AE/AMEF: Foot Mounted (IM1001), AE/AMVF: Flange Mounted (IM3001)</li> <li>AMVB: C 型法蘭安裝 (IM3601)</li> <li>AMVB: C type flange (IM3601)</li> </ul>                                                                                                                                    |
|                               | 電源 Power                  | <ul style="list-style-type: none"> <li>電壓變動率: <math>\pm 10\%</math> 以內</li> <li>Voltage variation: within <math>\pm 10\%</math></li> <li>頻率變動率: <math>\pm 5\%</math> 以內</li> <li>Frequency variation: within <math>\pm 5\%</math></li> <li>綜合變動率: 以上兩點絕對值之和在 <math>10\%</math> 以內</li> <li>The total value of the absolute value for two points within <math>10\%</math></li> </ul> |
|                               | 場所 Place                  | <ul style="list-style-type: none"> <li>一般屋內 (避免腐蝕性氣體及多塵埃之處)</li> <li>Shadow, Non - Hazardous</li> </ul>                                                                                                                                                                                                                                                                             |
|                               | 周溫 Temperature            | <ul style="list-style-type: none"> <li><math>-15^{\circ}\text{C} \sim 40^{\circ}\text{C}</math></li> </ul>                                                                                                                                                                                                                                                                          |
|                               | 濕度 Humidity               | <ul style="list-style-type: none"> <li>相對濕度 <math>80\%</math> 以下 (不得結露)</li> <li>Relative Humidity less than <math>80\% \text{ RH}</math> (Non - condensation)</li> </ul>                                                                                                                                                                                                           |
|                               | 標高 Altitude               | <ul style="list-style-type: none"> <li>海拔 <math>1000</math> 公尺以下</li> <li>Less than <math>1000</math> meter</li> </ul>                                                                                                                                                                                                                                                              |
|                               | 帶動方式 Coupling Method      | <ul style="list-style-type: none"> <li>皮帶輪帶動; 2P-50HP (含) 以上僅適用於直結馬達</li> <li>For belt-driven application; However, for 2 poles 50HP and larger spec., it's limited for direct-coupled method only.</li> </ul>                                                                                                                                                                      |
|                               | 轉向 Rotation Direction     | <ul style="list-style-type: none"> <li>雙轉向 Available for CW or CCW rotation.</li> </ul>                                                                                                                                                                                                                                                                                             |
|                               | 起動方式 Starting Methods     | <ul style="list-style-type: none"> <li>全壓直接啟動或 Y / <math>\Delta</math> 啟動</li> <li>Full voltage starting or Y/<math>\Delta</math> starting</li> </ul>                                                                                                                                                                                                                               |
|                               | 軸承 Bearing Type           | <ul style="list-style-type: none"> <li>框號 F#63~F#250 為預注油脂式, 軸承雙遮蓋密封式設計 (框號 F#112~F#250 可選配注油式)</li> <li>F #63~F#250 Double shield Non - contact Ball Bearings (F#112~F#250 Optional oil - lubricated design)</li> <li>框號 F#280 (含) 以上為注油式, 軸承雙面開放式設計</li> <li>F#280 and above: Oil-lubricated, Double open design</li> </ul>                                                       |
|                               | 出線盒 Terminal box          | <ul style="list-style-type: none"> <li>鋼板材質超大容量附電纜線進口孔, 並能做 <math>90^{\circ}</math> 旋轉安裝由負載端視之位於框架左側, 標準品不附電纜線</li> <li>Steel sheet material with cable inlet hole and available for <math>90^{\circ}</math> rotation, it would be on the left side when viewed from the drive end. Standard products exclude the cable.</li> </ul>                                                 |
|                               | 出口線 Leads                 | <ul style="list-style-type: none"> <li>出口線 3.6.9.12 條, 附有接線端子</li> <li>3/6/9/12 leads, with terminals</li> </ul>                                                                                                                                                                                                                                                                    |
|                               | 定子絕緣 Stator Insulation    | IE1 系列 <ul style="list-style-type: none"> <li>框號: 63~180M B 級絕緣</li> <li>Frame No. 63~180M B class</li> <li>框號: 180L~315L F 級絕緣</li> <li>Frame No. 180L~315L F class</li> </ul>                                                                                                                                                                                                     |
|                               |                           | AM 系列 <ul style="list-style-type: none"> <li>F 級絕緣</li> <li>F class</li> </ul>                                                                                                                                                                                                                                                                                                      |
|                               |                           | IE3/GB3 系列 <ul style="list-style-type: none"> <li>F 級絕緣</li> <li>F class</li> </ul>                                                                                                                                                                                                                                                                                                 |
|                               | 螺紋 Thread                 | <ul style="list-style-type: none"> <li>國際標準組織 ISO - M 公制</li> <li>ISO Metric screw thread</li> </ul>                                                                                                                                                                                                                                                                                |
| 測試程序<br>Test process          |                           | <ul style="list-style-type: none"> <li>依據國際電工委員會 (IEC34)</li> <li>According to IEC 34 testing standard.</li> <li>使用全壓啟動測試</li> <li>Use full voltage starting test.</li> </ul>                                                                                                                                                                                                       |

## Character List

## 標準型感應馬達特性表

IE1

60Hz

| Output |       |   |      | Frame No | Full Load Character |                |              |       |             | Starting Character |              |      | Max. Torque | Inertia |
|--------|-------|---|------|----------|---------------------|----------------|--------------|-------|-------------|--------------------|--------------|------|-------------|---------|
| HP     | kW    | P | RPM  |          | Efficiency %        | Power Factor % | Current Amp. |       | Torque kg-m | Torque %           | Current Amp. |      | %           | kg-m²   |
|        |       |   |      |          |                     |                | 220V         | 380V  |             |                    | 220V         | 380V |             |         |
| 1/4    | 0.185 | 2 | 3515 | 63       | 62.0                | 72.5           | 1.08         | 0.63  | 0.051       | 240                | 8            | 5    | 250         | 0.0020  |
|        |       | 4 | 1700 | 63       | 66.0                | 66.9           | 1.10         | 0.64  | 0.106       | 250                | 8            | 5    | 270         | 0.0020  |
|        |       | 6 | 1130 | 71       | 64.0                | 66.0           | 1.15         | 0.67  | 0.160       | 200                | 8            | 5    | 250         | 0.0070  |
| 1/2    | 0.37  | 2 | 3500 | 71       | 66.0                | 86.0           | 1.71         | 0.99  | 0.103       | 240                | 12           | 7    | 260         | 0.0020  |
|        |       | 4 | 1690 | 71       | 68.0                | 84.0           | 1.70         | 0.98  | 0.213       | 200                | 12           | 7    | 250         | 0.0050  |
|        |       | 6 | 1130 | 80       | 66.0                | 70.0           | 2.10         | 1.22  | 0.319       | 200                | 12           | 7    | 230         | 0.0085  |
| 1      | 0.75  | 2 | 3450 | 80       | 76.0                | 90.0           | 2.88         | 1.67  | 0.212       | 220                | 20           | 12   | 280         | 0.0051  |
|        |       | 4 | 1730 | 80       | 84.7                | 75.0           | 3.10         | 1.79  | 0.422       | 230                | 20           | 12   | 280         | 0.0100  |
|        |       | 6 | 1140 | 90L      | 77.0                | 64.0           | 3.99         | 2.31  | 0.641       | 200                | 20           | 12   | 230         | 0.0172  |
| 2      | 1.5   | 2 | 3460 | 90L      | 81.5                | 91.0           | 5.31         | 3.07  | 0.422       | 250                | 40           | 23   | 280         | 0.0110  |
|        |       | 4 | 1730 | 90L      | 81.5                | 76.0           | 6.36         | 3.68  | 0.845       | 220                | 40           | 23   | 280         | 0.0180  |
|        |       | 6 | 1140 | 100L     | 84.0                | 71.0           | 6.60         | 3.82  | 1.282       | 180                | 40           | 23   | 220         | 0.0580  |
| 3      | 2.2   | 2 | 3480 | 90L      | 82.5                | 86.0           | 8.14         | 4.71  | 0.616       | 250                | 68           | 39   | 280         | 0.0131  |
|        |       | 4 | 1740 | 100L     | 85.5                | 80.0           | 8.44         | 4.89  | 1.232       | 210                | 68           | 39   | 260         | 0.0425  |
|        |       | 6 | 1140 | 112M     | 85.5                | 72.4           | 9.33         | 5.40  | 1.881       | 180                | 68           | 39   | 230         | 0.0787  |
| 5      | 3.7   | 2 | 3450 | 112M     | 85.5                | 90.0           | 12.6         | 7.31  | 1.045       | 240                | 110          | 64   | 280         | 0.0450  |
|        |       | 4 | 1750 | 112M     | 85.5                | 82.3           | 13.8         | 7.99  | 2.060       | 220                | 110          | 64   | 260         | 0.0720  |
|        |       | 6 | 1150 | 132S     | 85.5                | 77.5           | 14.7         | 8.48  | 3.135       | 180                | 110          | 64   | 230         | 0.1420  |
| 7.5    | 5.5   | 2 | 3490 | 132S     | 86.5                | 85.0           | 19.6         | 11.4  | 1.536       | 220                | 160          | 93   | 260         | 0.0520  |
|        |       | 4 | 1770 | 132S     | 87.5                | 83.0           | 19.9         | 11.5  | 3.028       | 220                | 160          | 93   | 250         | 0.1120  |
|        |       | 6 | 1150 | 132M     | 87.5                | 77.5           | 21.3         | 12.3  | 4.661       | 200                | 160          | 93   | 230         | 0.1190  |
| 10     | 7.5   | 2 | 3510 | 132S     | 87.5                | 89.3           | 25.2         | 14.6  | 2.082       | 200                | 200          | 116  | 210         | 0.0680  |
|        |       | 4 | 1770 | 132M     | 87.5                | 84.0           | 26.8         | 15.5  | 4.129       | 220                | 200          | 116  | 250         | 0.1450  |
|        |       | 6 | 1180 | 160M     | 87.5                | 80.0           | 28.1         | 16.3  | 6.194       | 210                | 200          | 116  | 230         | 0.4150  |
| 15     | 11    | 2 | 3550 | 160M     | 88.5                | 90.0           | 36.2         | 21.0  | 3.020       | 200                | 290          | 168  | 240         | 0.1530  |
|        |       | 4 | 1770 | 160M     | 89.5                | 83.5           | 38.6         | 22.4  | 6.056       | 220                | 290          | 168  | 250         | 0.3100  |
|        |       | 6 | 1170 | 160L     | 88.5                | 83.0           | 39.3         | 22.8  | 9.162       | 210                | 290          | 168  | 230         | 0.6140  |
| 20     | 15    | 2 | 3520 | 160M     | 88.5                | 91.0           | 48.9         | 28.3  | 4.153       | 200                | 360          | 208  | 240         | 0.2080  |
|        |       | 4 | 1760 | 160L     | 89.5                | 85.5           | 51.4         | 29.8  | 8.305       | 220                | 360          | 208  | 240         | 0.3940  |
|        |       | 6 | 1170 | 180M     | 88.5                | 85.5           | 52.0         | 30.1  | 12.49       | 200                | 360          | 208  | 220         | 1.0500  |
| 25     | 18.5  | 2 | 3520 | 160L     | 89.5                | 87.0           | 62.4         | 36.1  | 5.122       | 200                | 440          | 255  | 230         | 0.2370  |
|        |       | 4 | 1760 | 180M     | 91.0                | 82.0           | 65.1         | 37.7  | 10.24       | 210                | 440          | 255  | 240         | 0.6540  |
|        |       | 6 | 1170 | 180L     | 90.2                | 84.5           | 63.7         | 36.9  | 15.41       | 200                | 440          | 255  | 220         | 1.3350  |
| 30     | 22    | 2 | 3520 | 180M     | 89.5                | 88.0           | 73.3         | 42.4  | 6.091       | 200                | 550          | 318  | 230         | 0.2830  |
|        |       | 4 | 1760 | 180M     | 91.0                | 83.6           | 75.9         | 43.9  | 12.18       | 210                | 550          | 318  | 240         | 0.7150  |
|        |       | 6 | 1170 | 180L     | 90.2                | 79.5           | 80.5         | 46.6  | 18.32       | 200                | 550          | 318  | 215         | 1.4330  |
| 40     | 30    | 2 | 3520 | 180L     | 90.2                | 85.6           | 102.0        | 59.1  | 8.305       | 150                | 620          | 359  | 210         | 0.3520  |
|        |       | 4 | 1760 | 180L     | 91.7                | 82.7           | 103.8        | 60.1  | 16.61       | 210                | 620          | 359  | 240         | 0.8080  |
|        |       | 6 | 1170 | 200L     | 91.7                | 87.0           | 98.7         | 57.1  | 24.99       | 190                | 620          | 359  | 215         | 2.5580  |
| 50     | 37    | 2 | 3545 | 200L     | 91.0                | 87.0           | 122.6        | 71.0  | 10.17       | 150                | 800          | 463  | 210         | 0.9050  |
|        |       | 4 | 1760 | 200L     | 91.7                | 84.5           | 125.3        | 72.5  | 20.49       | 200                | 800          | 463  | 230         | 1.5030  |
|        |       | 6 | 1170 | 200L     | 91.7                | 84.0           | 126.0        | 73.0  | 30.82       | 210                | 800          | 463  | 210         | 3.2360  |
| 60     | 45    | 2 | 3545 | 200L     | 91.7                | 90.0           | 143.1        | 82.8  | 12.37       | 170                | 910          | 527  | 220         | 1.0720  |
|        |       | 4 | 1770 | 200L     | 92.4                | 86.0           | 148.6        | 86.0  | 24.78       | 190                | 910          | 527  | 220         | 1.7320  |
|        |       | 6 | 1180 | 225S     | 92.4                | 83.0           | 154.0        | 89.1  | 37.16       | 210                | 910          | 527  | 210         | 4.1950  |
| 75     | 55    | 2 | 3550 | 225S     | 91.7                | 91.0           | 172.9        | 100.1 | 15.10       | 180                | 1200         | 695  | 220         | 1.2150  |
|        |       | 4 | 1770 | 225S     | 93.0                | 88.0           | 176.4        | 102.1 | 30.28       | 185                | 1200         | 695  | 220         | 2.7950  |
|        |       | 6 | 1180 | 250S     | 92.4                | 86.0           | 181.6        | 105.2 | 45.42       | 200                | 1200         | 695  | 210         | 6.4830  |
| 100    | 75    | 2 | 3555 | 250S     | 92.4                | 85.0           | 250.6        | 145.1 | 20.56       | 180                | 1450         | 839  | 220         | 1.7090  |
|        |       | 4 | 1775 | 250S     | 93.6                | 86.9           | 242.0        | 140.1 | 41.18       | 180                | 1545         | 894  | 220         | 4.8320  |
|        |       | 6 | 1185 | 250M     | 93.0                | 89.0           | 237.8        | 137.7 | 61.68       | 200                | 1450         | 839  | 200         | 7.6940  |
| 125    | 90    | 2 | 3575 | 250M     | 93.6                | 89.0           | 283.5        | 164.1 | 24.53       | 150                | 2180         | 1262 | 300         | 2.0530  |
|        |       | 4 | 1775 | 250M     | 93.6                | 88.0           | 286.7        | 166.0 | 49.41       | 180                | 2100         | 1216 | 220         | 5.0330  |
|        |       | 6 | 1190 | 280S     | 93.0                | 87.5           | 290.2        | 168.0 | 73.70       | 130                | 1990         | 1152 | 230         | 9.1850  |
| 150    | 110   | 2 | 3565 | 280S     | 93.6                | 87.5           | 352.5        | 204.1 | 30.07       | 120                | 2274         | 1317 | 280         | 2.6520  |
|        |       | 4 | 1770 | 280S     | 94.1                | 87.0           | 352.6        | 204.1 | 60.56       | 130                | 2420         | 1401 | 230         | 6.7280  |
|        |       | 6 | 1180 | 280M     | 94.1                | 85.5           | 358.8        | 207.7 | 90.84       | 130                | 2420         | 1401 | 230         | 11.200  |
| 175    | 132   | 2 | 3565 | 280M     | 94.1                | 88.0           | 418.3        | 242.2 | 36.08       | 100                | 2678         | 1550 | 280         | 3.1500  |
|        |       | 4 | 1770 | 280M     | 94.1                | 85.0           | 433.1        | 250.7 | 72.67       | 130                | 2910         | 1685 | 230         | 7.5830  |
|        |       | 6 | 1185 | 315S     | 94.1                | 84.0           | 438.2        | 253.7 | 108.6       | 130                | 2910         | 1685 | 230         | 17.850  |
| 200    | 150   | 2 | 3575 | 315S     | 94.1                | 88.7           | 471.6        | 273.0 | 40.89       | 110                | 3100         | 1795 | 250         | 5.1720  |
|        |       | 4 | 1785 | 315S     | 94.1                | 87.0           | 480.8        | 278.4 | 81.89       | 130                | 3300         | 1911 | 230         | 11.432  |
|        |       | 6 | 1190 | 315M     | 94.1                | 86.2           | 485.3        | 281.0 | 122.8       | 130                | 3064         | 1774 | 230         | 20.792  |
| 215    | 160   | 2 | 3570 | 315S     | 94.1                | 88.5           | 504.2        | 291.9 | 43.67       | 120                | 3236         | 1873 | 250         | 6.8230  |
|        |       | 4 | 1775 | 315S     | 94.1                | 88.3           | 505.3        | 292.6 | 87.84       | 130                | 3530         | 2044 | 230         | 14.132  |
|        |       | 6 | 1185 | 315M     | 94.1                | 86.5           | 515.9        | 298.7 | 131.6       | 130                | 3530         | 2044 | 230         | 23.595  |
| 250    | 185   | 2 | 3570 | 315M     | 94.1                | 87.6           | 589.3        | 341.2 | 43.67       | 160                | 4134         | 2393 | 260         | 8.0280  |
|        |       | 4 | 1775 | 315M     | 94.5                | 89.0           | 577.0        | 334.1 | 101.6       | 120                | 4450         | 2576 | 230         | 17.215  |
|        |       | 6 | 1190 | 315L     | 94.1                | 82.5           | 625.3        | 362.0 | 151.5       | 150                | 4412         | 2554 | 200         | 26.561  |
| 270    | 200   | 2 | 3570 | 315M     | 94.5                | 88.5           | 627.6        | 363.3 | 54.59       | 160                | 4134         | 2393 | 260         | 10.456  |
|        |       | 4 | 1775 | 315M     | 94.5                | 88.0           | 631.1        | 365.4 | 109.8       | 120                | 4450         | 2576 | 230         | 20.156  |
|        |       | 6 | 1190 | 315L     | 94.1                | 83.3           | 669.6        | 387.7 | 163.8       | 150                | 4532         | 2624 | 200         | 29.156  |
| 300    | 220   | 2 | 3570 | 315L     | 94.5                | 86.7           | 704.4        | 407.8 | 60.05       | 160                | 4154         | 2405 | 260         | 12.156  |
|        |       | 4 | 1780 | 315L     | 94.5                | 85.1           | 718.2        | 415.8 | 120.4       | 180                | 4600         | 2663 | 200         | 22.156  |

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.)

3.\* 輕量型 10HP-4P 框號為 132S (Light-weight model : Frame size 132S, output 10HP - 4 Poles.)

# Character List

## 標準型感應馬達特性表

50Hz

| Output |       |   |      | Frame No | Full Load Character |                |              |       |             | Starting Character |              |      | Max. Torque | Inertia           |
|--------|-------|---|------|----------|---------------------|----------------|--------------|-------|-------------|--------------------|--------------|------|-------------|-------------------|
| HP     | kW    | P | RPM  |          | Efficiency %        | Power Factor % | Current Amp. |       | Torque kg-m | Torque %           | Current Amp. |      | %           | kg-m <sup>2</sup> |
|        |       |   |      |          |                     |                | 220V         | 380V  |             |                    | 220V         | 380V |             |                   |
| 1/4    | 0.185 | 2 | 2905 | 63       | 56.0                | 76.5           | 1.1          | 0.7   | 0.062       | 240                | 6            | 4    | 250         | 0.0020            |
|        |       | 4 | 1420 | 63       | 64.0                | 68.5           | 1.1          | 0.6   | 0.127       | 220                | 6            | 4    | 240         | 0.0020            |
|        |       | 6 | 950  | 71       | 60.0                | 60.0           | 1.3          | 0.8   | 0.190       | 260                | 6            | 4    | 270         | 0.0070            |
| 1/2    | 0.37  | 2 | 2920 | 71       | 68.7                | 74.8           | 1.9          | 1.1   | 0.123       | 250                | 12           | 7    | 260         | 0.0020            |
|        |       | 4 | 1390 | 71       | 67.6                | 73.0           | 2.0          | 1.1   | 0.259       | 200                | 12           | 7    | 230         | 0.0050            |
|        |       | 6 | 940  | 80       | 63.0                | 67.0           | 2.3          | 1.3   | 0.384       | 200                | 12           | 7    | 230         | 0.0085            |
| 1      | 0.75  | 2 | 2820 | 80       | 72.1                | 85.4           | 3.2          | 1.9   | 0.259       | 220                | 19           | 11   | 280         | 0.0051            |
|        |       | 4 | 1425 | 80       | 72.1                | 80.0           | 3.4          | 2.0   | 0.513       | 250                | 19           | 11   | 280         | 0.0100            |
|        |       | 6 | 960  | 90L      | 70.0                | 70.0           | 4.0          | 2.3   | 0.761       | 190                | 19           | 11   | 230         | 0.0172            |
| 2      | 1.5   | 2 | 2805 | 90L      | 77.2                | 88.1           | 5.8          | 3.4   | 0.521       | 250                | 40           | 23   | 280         | 0.0110            |
|        |       | 4 | 1435 | 90L      | 77.2                | 85.0           | 6.0          | 3.5   | 1.019       | 220                | 40           | 23   | 280         | 0.0180            |
|        |       | 6 | 935  | 100L     | 75.2                | 80.0           | 6.5          | 3.8   | 1.563       | 180                | 40           | 23   | 220         | 0.0580            |
| 3      | 2.2   | 2 | 2840 | 90L      | 79.7                | 88.5           | 8.2          | 4.7   | 0.755       | 250                | 67           | 39   | 280         | 0.0131            |
|        |       | 4 | 1440 | 100L     | 79.7                | 85.0           | 8.5          | 4.9   | 1.489       | 210                | 67           | 39   | 260         | 0.0425            |
|        |       | 6 | 950  | 112M     | 77.7                | 80.0           | 9.3          | 5.4   | 2.257       | 180                | 67           | 39   | 230         | 0.0787            |
| 5      | 3.7   | 2 | 2900 | 112M     | 83.1                | 89.6           | 13.0         | 7.6   | 1.243       | 240                | 109          | 63   | 320         | 0.0450            |
|        |       | 4 | 1450 | 112M     | 83.1                | 81.5           | 14.3         | 8.3   | 2.487       | 220                | 109          | 63   | 290         | 0.0720            |
|        |       | 6 | 965  | 132S     | 81.4                | 82.0           | 14.5         | 8.4   | 3.736       | 180                | 109          | 63   | 230         | 0.1420            |
| 7.5    | 5.5   | 2 | 2935 | 132S     | 84.7                | 90.0           | 18.9         | 11.0  | 1.826       | 210                | 161          | 93   | 260         | 0.0520            |
|        |       | 4 | 1450 | 132S     | 84.7                | 84.0           | 20.3         | 11.7  | 3.696       | 220                | 161          | 93   | 280         | 0.1120            |
|        |       | 6 | 970  | 132M     | 83.1                | 82.5           | 21.1         | 12.2  | 5.525       | 200                | 161          | 93   | 230         | 0.1190            |
| 10     | 7.5   | 2 | 2930 | 132S     | 86.0                | 93.0           | 24.6         | 14.2  | 2.494       | 200                | 200          | 116  | 250         | 0.0680            |
|        |       | 4 | 1465 | 132M     | 86.0                | 84.1           | 27.2         | 15.8  | 4.989       | 220                | 200          | 116  | 250         | 0.1450            |
|        |       | 6 | 980  | 160M     | 84.7                | 78.5           | 29.6         | 17.1  | 7.458       | 270                | 200          | 116  | 300         | 0.4150            |
| 15     | 11    | 2 | 2950 | 160M     | 87.6                | 88.0           | 37.4         | 21.7  | 3.634       | 210                | 290          | 168  | 290         | 0.1530            |
|        |       | 4 | 1460 | 160M     | 87.6                | 84.6           | 39.0         | 22.6  | 7.342       | 220                | 290          | 168  | 250         | 0.3100            |
|        |       | 6 | 980  | 160L     | 86.4                | 77.1           | 43.4         | 25.1  | 10.94       | 220                | 290          | 168  | 260         | 0.6140            |
| 20     | 15    | 2 | 2950 | 160M     | 88.7                | 88.4           | 50.2         | 29.1  | 4.955       | 210                | 361          | 209  | 260         | 0.2080            |
|        |       | 4 | 1460 | 160L     | 88.7                | 85.0           | 52.2         | 30.2  | 10.01       | 230                | 361          | 209  | 260         | 0.3940            |
|        |       | 6 | 980  | 180M     | 87.7                | 84.0           | 53.4         | 30.9  | 14.92       | 210                | 361          | 209  | 230         | 1.0500            |
| 25     | 18.5  | 2 | 2950 | 160L     | 89.3                | 90.0           | 60.4         | 35.0  | 6.111       | 240                | 463          | 268  | 290         | 0.2370            |
|        |       | 4 | 1465 | 180M     | 89.3                | 82.6           | 65.8         | 38.1  | 12.31       | 210                | 463          | 268  | 240         | 0.6540            |
|        |       | 6 | 980  | 180L     | 88.6                | 80.7           | 67.9         | 39.3  | 18.40       | 220                | 463          | 268  | 240         | 1.3350            |
| 30     | 22    | 2 | 2920 | 180M     | 89.9                | 90.0           | 71.4         | 41.3  | 7.342       | 210                | 551          | 319  | 250         | 0.2830            |
|        |       | 4 | 1465 | 180M     | 89.9                | 83.4           | 77.0         | 44.6  | 14.63       | 210                | 551          | 319  | 240         | 0.7150            |
|        |       | 6 | 980  | 180L     | 89.2                | 84.4           | 76.7         | 44.4  | 21.88       | 230                | 551          | 319  | 260         | 1.4330            |
| 40     | 30    | 2 | 2920 | 180L     | 90.7                | 91.0           | 95.4         | 55.2  | 10.01       | 210                | 687          | 398  | 240         | 0.3520            |
|        |       | 4 | 1460 | 180L     | 90.7                | 84.0           | 103.3        | 59.8  | 20.02       | 220                | 687          | 398  | 230         | 0.8080            |
|        |       | 6 | 980  | 200L     | 90.2                | 83.0           | 105.2        | 60.9  | 29.83       | 190                | 687          | 398  | 200         | 2.5580            |
| 50     | 37    | 2 | 2940 | 200L     | 91.2                | 87.5           | 121.7        | 70.4  | 12.26       | 150                | 850          | 492  | 210         | 0.9050            |
|        |       | 4 | 1480 | 200L     | 91.2                | 87.1           | 122.2        | 70.8  | 24.36       | 190                | 850          | 492  | 210         | 1.5030            |
|        |       | 6 | 970  | 200L     | 90.8                | 80.3           | 133.2        | 77.1  | 37.17       | 230                | 850          | 492  | 250         | 3.2360            |
| 60     | 45    | 2 | 2955 | 200L     | 91.7                | 87.0           | 148.0        | 85.7  | 14.84       | 160                | 1005         | 582  | 220         | 1.0720            |
|        |       | 4 | 1475 | 200L     | 91.7                | 84.1           | 153.1        | 88.7  | 29.73       | 190                | 1005         | 582  | 200         | 1.7320            |
|        |       | 6 | 980  | 225S     | 91.4                | 84.0           | 153.8        | 89.1  | 44.75       | 220                | 1005         | 582  | 250         | 4.1950            |
| 75     | 55    | 2 | 2955 | 225S     | 92.1                | 87.2           | 179.7        | 104.1 | 18.14       | 180                | 1005         | 582  | 220         | 1.2150            |
|        |       | 4 | 1470 | 225S     | 92.1                | 85.0           | 184.4        | 106.7 | 36.46       | 180                | 1252         | 725  | 200         | 2.7950            |
|        |       | 6 | 980  | 250S     | 91.9                | 79.8           | 196.9        | 114.0 | 54.69       | 200                | 1252         | 725  | 210         | 6.4830            |
| 100    | 75    | 2 | 2980 | 250S     | 92.7                | 87.8           | 241.8        | 140.0 | 24.53       | 180                | 1601         | 927  | 220         | 1.7090            |
|        |       | 4 | 1475 | 250S     | 92.7                | 88.0           | 241.3        | 139.7 | 49.55       | 240                | 1601         | 927  | 250         | 4.8320            |
|        |       | 6 | 975  | 250M     | 92.6                | 87.0           | 244.3        | 141.4 | 74.96       | 220                | 1601         | 927  | 250         | 7.6940            |
| 125    | 90    | 2 | 2980 | 250M     | 93.0                | 88.5           | 287.0        | 166.1 | 29.43       | 150                | 2397         | 1388 | 300         | 2.0530            |
|        |       | 4 | 1475 | 250M     | 93.0                | 92.0           | 276.1        | 159.8 | 59.46       | 190                | 2150         | 1245 | 230         | 5.0330            |
|        |       | 6 | 975  | 280S     | 92.9                | 81.0           | 313.9        | 181.7 | 89.95       | 130                | 1986         | 1150 | 230         | 9.1850            |
| 150    | 110   | 2 | 2980 | 280S     | 93.3                | 86.0           | 359.8        | 208.3 | 35.97       | 120                | 2501         | 1448 | 280         | 2.6520            |
|        |       | 4 | 1490 | 280S     | 93.3                | 91.8           | 337.0        | 195.1 | 71.94       | 130                | 2418         | 1400 | 230         | 6.7280            |
|        |       | 6 | 975  | 280M     | 93.3                | 81.0           | 382.0        | 221.1 | 109.9       | 130                | 2418         | 1400 | 230         | 11.200            |
| 175    | 132   | 2 | 2980 | 280M     | 93.5                | 87.5           | 423.4        | 245.1 | 43.17       | 100                | 2945         | 1705 | 280         | 3.1500            |
|        |       | 4 | 1475 | 280M     | 93.5                | 83.5           | 443.7        | 256.9 | 87.21       | 130                | 2902         | 1680 | 230         | 7.5830            |
|        |       | 6 | 980  | 315S     | 93.5                | 83.5           | 443.7        | 256.9 | 131.3       | 130                | 2902         | 1680 | 230         | 17.850            |
| 200    | 150   | 2 | 2980 | 315S     | 93.8                | 88.7           | 473.1        | 273.9 | 49.05       | 110                | 3099         | 1794 | 250         | 5.1720            |
|        |       | 4 | 1475 | 315S     | 93.8                | 86.9           | 482.9        | 279.6 | 99.10       | 130                | 3299         | 1910 | 230         | 11.432            |
|        |       | 6 | 980  | 315M     | 93.8                | 85.7           | 489.7        | 283.5 | 149.2       | 130                | 3064         | 1774 | 230         | 20.792            |
| 215    | 160   | 2 | 2980 | 315S     | 93.8                | 87.0           | 514.5        | 297.9 | 52.32       | 120                | 3558         | 2060 | 250         | 6.8230            |
|        |       | 4 | 1480 | 315S     | 93.8                | 86.4           | 518.1        | 300.0 | 105.4       | 130                | 3506         | 2030 | 230         | 14.132            |
|        |       | 6 | 980  | 315M     | 93.8                | 85.5           | 523.6        | 303.1 | 159.1       | 130                | 3506         | 2030 | 230         | 23.595            |
| 250    | 185   | 2 | 2980 | 315M     | 94.0                | 86.1           | 600.1        | 347.4 | 60.50       | 160                | 4546         | 2632 | 260         | 8.0280            |
|        |       | 4 | 1480 | 315M     | 94.0                | 86.6           | 596.7        | 345.4 | 121.8       | 120                | 4405         | 2550 | 230         | 17.215            |
|        |       | 6 | 980  | 315L     | 94.0                | 82.0           | 629.8        | 364.6 | 184.0       | 150                | 4411         | 2554 | 200         | 26.561            |
| 270    | 200   | 2 | 2980 | 315M     | 94.0                | 87.0           | 641.8        | 371.6 | 65.40       | 160                | 4546         | 2632 | 260         | 10.456            |
|        |       | 4 | 1480 | 315M     | 94.0                | 88.5           | 630.9        | 365.3 | 131.7       | 120                | 4405         | 2550 | 230         | 20.156            |
|        |       | 6 | 980  | 315L     | 94.0                | 83.3           | 670.3        | 388.1 | 198.9       | 150                | 4531         | 2623 | 200         | 29.156            |
| 300    | 220   | 2 | 2980 | 315M     | 94.0                | 86.7           | 708.2        | 410.0 | 71.94       | 160                | 4152         | 2404 | 260         | 12.156            |
|        |       | 4 | 1480 | 315L     | 94.0                | 83.1           | 739.0        | 427.8 | 144.9       | 180                | 4600         | 2663 | 200         | 22.156            |

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.)

3.\* 輕量型 10HP-4P 框號為 132S (Light-weight model : Frame size 132S, output 10HP - 4 Poles.)

FUKUTA

## Character List

## 超高效率感應馬達特性表

IE3

60Hz

| Output |      |   |      | Frame No | Full Load Character |                |              |      |             | Starting Character |              |      | Max. Torque | Inertia           |
|--------|------|---|------|----------|---------------------|----------------|--------------|------|-------------|--------------------|--------------|------|-------------|-------------------|
| HP     | kW   | P | RPM  |          | Efficiency %        | Power Factor % | Current Amp. |      | Torque kg-m | Torque %           | Current Amp. |      | %           | kg-m <sup>2</sup> |
|        |      |   |      |          |                     |                | 220V         | 380V |             |                    | 220V         | 380V |             |                   |
| 1      | 0.75 | 2 | 3530 | 80       | 77.0                | 93.0           | 2.75         | 1.59 | 0.207       | 350                | 26           | 15   | 430         | 0.0071            |
|        |      | 4 | 1750 | 80       | 85.5                | 67.7           | 3.40         | 1.97 | 0.418       | 390                | 26           | 15   | 420         | 0.0120            |
|        |      | 6 | 1145 | 90L      | 82.5                | 65.7           | 3.63         | 2.10 | 0.638       | 195                | 20           | 12   | 265         | 0.0192            |
| 2      | 1.5  | 2 | 3500 | 90L      | 85.5                | 84.3           | 5.46         | 3.16 | 0.418       | 335                | 46           | 27   | 395         | 0.0130            |
|        |      | 4 | 1750 | 90L      | 86.5                | 78.5           | 5.80         | 3.36 | 0.835       | 325                | 51           | 30   | 385         | 0.0200            |
|        |      | 6 | 1165 | 100L     | 88.5                | 68.4           | 6.50         | 3.76 | 1.255       | 170                | 44           | 25   | 270         | 0.0600            |
| 3      | 2.2  | 2 | 3500 | 90L      | 86.5                | 85.6           | 7.80         | 4.51 | 0.613       | 390                | 75           | 43   | 400         | 0.0151            |
|        |      | 4 | 1770 | 100L     | 89.5                | 77.1           | 8.37         | 4.85 | 1.211       | 320                | 75           | 43   | 330         | 0.0445            |
|        |      | 6 | 1160 | 112M     | 89.5                | 70.9           | 9.10         | 5.27 | 1.848       | 170                | 57           | 33   | 265         | 0.0807            |
| 5      | 3.7  | 2 | 3540 | 112M     | 88.5                | 90.7           | 12.1         | 7.01 | 1.019       | 320                | 134          | 78   | 385         | 0.0470            |
|        |      | 4 | 1760 | 112M     | 89.5                | 79.2           | 13.7         | 7.93 | 2.049       | 225                | 110          | 64   | 325         | 0.0740            |
|        |      | 6 | 1165 | 132S     | 89.5                | 78.1           | 13.9         | 8.05 | 3.095       | 185                | 105          | 61   | 280         | 0.1440            |
| 7.5    | 5.5  | 2 | 3550 | 132S     | 89.5                | 85.0           | 19.0         | 11.0 | 1.510       | 245                | 160          | 93   | 295         | 0.0540            |
|        |      | 4 | 1770 | 132S     | 91.7                | 80.1           | 19.7         | 11.4 | 3.028       | 250                | 160          | 93   | 310         | 0.1140            |
|        |      | 6 | 1175 | 132M     | 91.0                | 75.5           | 21.0         | 12.2 | 4.561       | 230                | 170          | 98   | 345         | 0.1210            |
| 10     | 7.5  | 2 | 3550 | 132S     | 90.2                | 87.3           | 25.0         | 14.5 | 2.059       | 255                | 200          | 116  | 300         | 0.0700            |
|        |      | 4 | 1778 | 132M     | 91.7                | 79.0           | 27.2         | 15.7 | 4.111       | 270                | 230          | 133  | 320         | 0.1470            |
|        |      | 6 | 1175 | 160M     | 91.0                | 79.1           | 27.3         | 15.8 | 6.220       | 240                | 210          | 122  | 285         | 0.4170            |
| 15     | 11   | 2 | 3560 | 160M     | 91.0                | 85.9           | 36.9         | 21.4 | 3.011       | 235                | 320          | 185  | 285         | 0.1550            |
|        |      | 4 | 1780 | 160M     | 92.4                | 81.5           | 38.3         | 22.2 | 6.022       | 245                | 320          | 185  | 275         | 0.3120            |
|        |      | 6 | 1170 | 160L     | 91.7                | 79.7           | 39.5         | 22.9 | 9.162       | 250                | 320          | 185  | 290         | 0.6160            |
| 20     | 15   | 2 | 3540 | 160M     | 91.0                | 91.1           | 47.5         | 27.5 | 4.129       | 240                | 390          | 226  | 290         | 0.2100            |
|        |      | 4 | 1780 | 160L     | 93.0                | 82.4           | 51.4         | 29.7 | 8.212       | 255                | 400          | 232  | 285         | 0.3960            |
|        |      | 6 | 1185 | 180M     | 91.7                | 79.5           | 54.0         | 31.3 | 12.34       | 240                | 420          | 243  | 260         | 1.0520            |
| 25     | 18.5 | 2 | 3535 | 160L     | 91.7                | 92.1           | 57.5         | 33.3 | 5.100       | 260                | 500          | 289  | 295         | 0.2390            |
|        |      | 4 | 1770 | 180M     | 93.6                | 84.5           | 61.4         | 35.5 | 10.19       | 250                | 470          | 272  | 265         | 0.6560            |
|        |      | 6 | 1180 | 180L     | 93.0                | 82.2           | 63.5         | 36.8 | 15.28       | 280                | 530          | 307  | 300         | 1.3370            |
| 30     | 22   | 2 | 3570 | 180M     | 91.7                | 87.9           | 71.6         | 41.5 | 6.005       | 225                | 560          | 324  | 280         | 0.2850            |
|        |      | 4 | 1775 | 180M     | 93.6                | 83.9           | 73.5         | 42.6 | 12.08       | 220                | 560          | 324  | 250         | 0.7170            |
|        |      | 6 | 1180 | 180L     | 93.0                | 83.3           | 74.5         | 43.1 | 18.17       | 215                | 590          | 342  | 285         | 1.4350            |
| 40     | 30   | 2 | 3546 | 180L     | 92.4                | 84.6           | 101          | 58.3 | 8.244       | 251                | 801          | 464  | 310         | 0.3540            |
|        |      | 4 | 1777 | 180L     | 94.1                | 81.4           | 103          | 59.5 | 16.45       | 284                | 831          | 481  | 353         | 0.8100            |
|        |      | 6 | 1180 | 200L     | 94.1                | 82.1           | 102          | 59.0 | 24.78       | 210                | 620          | 359  | 240         | 2.5600            |
| 50     | 37   | 2 | 3555 | 200L     | 93.0                | 89.0           | 117          | 67.9 | 10.14       | 170                | 960          | 556  | 295         | 0.9070            |
|        |      | 4 | 1780 | 200L     | 94.5                | 84.0           | 122          | 70.8 | 20.26       | 215                | 870          | 504  | 250         | 1.5050            |
|        |      | 6 | 1185 | 200L     | 94.1                | 83.0           | 124          | 72.0 | 30.43       | 240                | 860          | 498  | 250         | 3.2380            |
| 60     | 45   | 2 | 3555 | 200L     | 93.6                | 90.9           | 139          | 80.4 | 12.34       | 160                | 1000         | 579  | 265         | 1.0740            |
|        |      | 4 | 1775 | 200L     | 95.0                | 84.8           | 147          | 84.9 | 24.71       | 215                | 1050         | 608  | 260         | 1.7340            |
|        |      | 6 | 1185 | 225S     | 94.5                | 84.3           | 148          | 85.8 | 37.01       | 240                | 1090         | 631  | 260         | 4.1970            |
| 75     | 55   | 2 | 3560 | 225S     | 93.6                | 89.0           | 173          | 100  | 15.06       | 220                | 1473         | 853  | 260         | 1.2170            |
|        |      | 4 | 1785 | 225S     | 95.4                | 87.9           | 172          | 99.7 | 30.03       | 160                | 1440         | 834  | 260         | 2.7970            |
|        |      | 6 | 1185 | 250S     | 94.5                | 84.5           | 181          | 105  | 45.23       | 190                | 1260         | 729  | 260         | 6.4850            |
| 100    | 75   | 2 | 3575 | 250S     | 94.1                | 88.3           | 237          | 137  | 20.44       | 170                | 1761         | 1020 | 260         | 1.7110            |
|        |      | 4 | 1780 | 250S     | 95.4                | 86.9           | 237          | 137  | 41.06       | 190                | 1870         | 1083 | 300         | 4.8340            |
|        |      | 6 | 1185 | 250M     | 95.0                | 85.5           | 242          | 140  | 61.68       | 185                | 1620         | 938  | 250         | 7.6960            |
| 125    | 90   | 2 | 3575 | 250M     | 95.0                | 89.0           | 279          | 162  | 24.53       | 160                | 2358         | 1365 | 310         | 2.0550            |
|        |      | 4 | 1785 | 250M     | 95.4                | 89.1           | 278          | 161  | 49.13       | 200                | 2540         | 1471 | 305         | 5.0350            |
|        |      | 6 | 1185 | 280S     | 95.0                | 85.7           | 290          | 168  | 74.01       | 240                | 2300         | 1332 | 250         | 9.1870            |
| 150    | 110  | 2 | 3580 | 280S     | 95.0                | 88.0           | 345          | 200  | 29.94       | 135                | 2850         | 1650 | 250         | 2.6540            |
|        |      | 4 | 1785 | 280S     | 95.8                | 89.6           | 336          | 195  | 60.05       | 210                | 2900         | 1679 | 260         | 6.7300            |
|        |      | 6 | 1185 | 280M     | 95.8                | 89.6           | 336          | 195  | 90.46       | 210                | 2900         | 1679 | 240         | 11.230            |
| 175    | 132  | 2 | 3575 | 280M     | 95.0                | 88.0           | 414          | 240  | 35.98       | 150                | 3109         | 1800 | 250         | 3.1800            |
|        |      | 4 | 1790 | 280M     | 95.8                | 86.0           | 420          | 243  | 71.86       | 155                | 3109         | 1800 | 375         | 7.6100            |
|        |      | 6 | 1190 | 315S     | 95.8                | 85.0           | 425          | 246  | 108.1       | 265                | 3455         | 2000 | 275         | 17.880            |
| 200    | 150  | 2 | 3575 | 315S     | 95.4                | 90.8           | 454          | 263  | 40.89       | 150                | 3860         | 2235 | 250         | 5.2000            |
|        |      | 4 | 1785 | 315S     | 96.2                | 87.0           | 470          | 272  | 81.89       | 130                | 3800         | 2200 | 330         | 11.460            |
|        |      | 6 | 1190 | 315M     | 95.8                | 81.5           | 504          | 292  | 122.8       | 265                | 3264         | 1890 | 275         | 20.820            |
| 215    | 160  | 2 | 3579 | 315S     | 95.4                | 90.0           | 489          | 283  | 43.56       | 160                | 3800         | 2200 | 250         | 6.8500            |
|        |      | 4 | 1788 | 315S     | 96.2                | 87.0           | 502          | 290  | 87.20       | 130                | 3800         | 2200 | 330         | 14.160            |
|        |      | 6 | 1190 | 315M     | 95.8                | 85.5           | 513          | 297  | 131.0       | 220                | 4197         | 2430 | 220         | 23.630            |
| 250    | 185  | 2 | 3580 | 315M     | 95.8                | 90.0           | 563          | 326  | 50.36       | 180                | 3601         | 2085 | 280         | 8.0600            |
|        |      | 4 | 1785 | 315M     | 96.2                | 86.0           | 587          | 340  | 101.0       | 220                | 4905         | 2840 | 290         | 17.250            |
|        |      | 6 | 1190 | 315L     | 95.8                | 81.5           | 622          | 360  | 151.5       | 190                | 4411         | 2554 | 250         | 26.590            |
| 270    | 200  | 2 | 3575 | 315M     | 95.8                | 89.0           | 616          | 356  | 54.52       | 140                | 3784         | 2191 | 240         | 10.490            |
|        |      | 4 | 1790 | 315M     | 96.2                | 87.0           | 627          | 363  | 108.9       | 180                | 4983         | 2885 | 260         | 20.190            |
|        |      | 6 | 1190 | 315L     | 95.8                | 82.5           | 664          | 384  | 163.8       | 180                | 4538         | 2627 | 250         | 29.190            |
| 300    | 220  | 2 | 3570 | 315L     | 95.8                | 89.9           | 670          | 388  | 60.05       | 140                | 4058         | 2349 | 240         | 12.190            |
|        |      | 4 | 1780 | 315L     | 96.2                | 87.0           | 690          | 399  | 120.4       | 180                | 5012         | 2902 | 200         | 22.190            |

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.)

Character List

超高效率感應馬達特性表

IE3/GB3

50Hz

| Output |      |   |      | Frame No | Full Load Character |                |              |       |             | Starting Character |              |      | Max. Torque | Inertia |
|--------|------|---|------|----------|---------------------|----------------|--------------|-------|-------------|--------------------|--------------|------|-------------|---------|
| HP     | kW   | P | RPM  |          | Efficiency %        | Power Factor % | Current Amp. |       | Torque kg-m | Torque %           | Current Amp. |      | %           | kg-m²   |
|        |      |   |      |          |                     |                | 220V         | 380V  |             |                    | 220V         | 380V |             |         |
| 1      | 0.75 | 2 | 2860 | 80       | 80.7                | 70.6           | 3.5          | 2.0   | 0.256       | 330                | 24           | 14   | 390         | 0.0071  |
|        |      | 4 | 1440 | 80       | 82.5                | 72.7           | 3.3          | 1.9   | 0.508       | 315                | 24           | 14   | 375         | 0.0120  |
|        |      | 6 | 940  | 90L      | 78.9                | 72.2           | 3.5          | 2.0   | 0.778       | 200                | 19           | 11   | 235         | 0.0192  |
| 2      | 1.5  | 2 | 2880 | 90L      | 84.2                | 84.3           | 5.5          | 3.2   | 0.508       | 340                | 47           | 27   | 360         | 0.0130  |
|        |      | 4 | 1450 | 90L      | 85.3                | 78.6           | 5.9          | 3.4   | 1.008       | 320                | 47           | 27   | 360         | 0.0200  |
|        |      | 6 | 965  | 100L     | 82.5                | 70.2           | 6.8          | 3.9   | 1.515       | 175                | 41           | 24   | 250         | 0.0600  |
| 3      | 2.2  | 2 | 2845 | 90L      | 85.9                | 85.4           | 7.9          | 4.6   | 0.754       | 330                | 64           | 37   | 355         | 0.0151  |
|        |      | 4 | 1460 | 100L     | 86.7                | 75.6           | 8.8          | 5.1   | 1.468       | 300                | 76           | 44   | 315         | 0.0445  |
|        |      | 6 | 960  | 112M     | 84.3                | 72.1           | 9.5          | 5.5   | 2.233       | 175                | 55           | 32   | 265         | 0.0807  |
| 5      | 3.7  | 2 | 2930 | 112M     | 88.1                | 89.9           | 12.3         | 7.1   | 1.231       | 290                | 140          | 81   | 345         | 0.0470  |
|        |      | 4 | 1465 | 112M     | 88.6                | 82.4           | 13.3         | 7.7   | 2.461       | 235                | 109          | 63   | 305         | 0.0740  |
|        |      | 6 | 965  | 132S     | 86.8                | 76.2           | 14.7         | 8.5   | 3.736       | 200                | 100          | 58   | 275         | 0.1440  |
| 7.5    | 5.5  | 2 | 2940 | 132S     | 89.2                | 87.6           | 18.5         | 10.7  | 1.823       | 230                | 166          | 96   | 290         | 0.0540  |
|        |      | 4 | 1460 | 132S     | 89.6                | 80.2           | 20.1         | 11.6  | 3.671       | 240                | 145          | 84   | 295         | 0.1140  |
|        |      | 6 | 970  | 132M     | 88.0                | 76.0           | 21.6         | 12.5  | 5.525       | 225                | 121          | 70   | 335         | 0.1210  |
| 10     | 7.5  | 2 | 2950 | 132S     | 90.1                | 87.2           | 25.0         | 14.5  | 2.478       | 270                | 190          | 110  | 300         | 0.0700  |
|        |      | 4 | 1470 | 132M     | 90.4                | 84.4           | 25.8         | 14.9  | 4.972       | 260                | 190          | 110  | 315         | 0.1470  |
|        |      | 6 | 970  | 160M     | 89.1                | 78.7           | 28.1         | 16.2  | 7.535       | 270                | 200          | 116  | 280         | 0.4170  |
| 15     | 11   | 2 | 2960 | 160M     | 91.2                | 88.0           | 36.0         | 20.8  | 3.621       | 230                | 264          | 153  | 280         | 0.1550  |
|        |      | 4 | 1480 | 160M     | 91.4                | 82.0           | 38.5         | 22.3  | 7.243       | 230                | 285          | 165  | 270         | 0.3120  |
|        |      | 6 | 970  | 160L     | 90.3                | 80.5           | 39.7         | 23.0  | 11.05       | 250                | 264          | 153  | 285         | 0.6160  |
| 20     | 15   | 2 | 2950 | 160M     | 91.9                | 90.2           | 47.5         | 27.5  | 4.955       | 230                | 363          | 210  | 290         | 0.2100  |
|        |      | 4 | 1470 | 160L     | 92.1                | 81.4           | 52.5         | 30.4  | 9.94        | 250                | 373          | 216  | 280         | 0.3960  |
|        |      | 6 | 970  | 180M     | 91.2                | 82.9           | 52.1         | 30.1  | 15.07       | 220                | 318          | 184  | 235         | 1.0520  |
| 25     | 18.5 | 2 | 2930 | 160L     | 92.4                | 92.2           | 57.0         | 33.0  | 6.153       | 250                | 454          | 263  | 300         | 0.2390  |
|        |      | 4 | 1470 | 180M     | 92.6                | 83.3           | 62.9         | 36.4  | 12.26       | 235                | 446          | 258  | 265         | 0.6560  |
|        |      | 6 | 980  | 180M     | 91.7                | 81.7           | 64.8         | 37.5  | 18.40       | 285                | 501          | 290  | 310         | 1.3370  |
| 30     | 22   | 2 | 2935 | 180M     | 92.7                | 85.0           | 73.3         | 42.4  | 7.305       | 225                | 546          | 316  | 270         | 0.2850  |
|        |      | 4 | 1475 | 180M     | 93.0                | 84.1           | 73.8         | 42.7  | 14.53       | 215                | 487          | 282  | 255         | 0.7170  |
|        |      | 6 | 975  | 180L     | 92.2                | 82.4           | 76.0         | 44.0  | 21.99       | 265                | 554          | 321  | 285         | 1.4350  |
| 40     | 30   | 2 | 2950 | 180L     | 93.3                | 91.5           | 92.2         | 53.4  | 9.910       | 255                | 791          | 458  | 330         | 0.3540  |
|        |      | 4 | 1475 | 180L     | 93.6                | 83.9           | 100.3        | 58.0  | 19.82       | 215                | 682          | 395  | 260         | 0.8100  |
|        |      | 6 | 980  | 200L     | 92.9                | 85.5           | 99.1         | 57.4  | 29.83       | 210                | 582          | 337  | 220         | 2.5600  |
| 50     | 37   | 2 | 2950 | 200L     | 93.7                | 87.7           | 118.2        | 68.4  | 12.22       | 185                | 936          | 542  | 300         | 0.9070  |
|        |      | 4 | 1480 | 200L     | 93.9                | 85.1           | 121.5        | 70.3  | 24.36       | 205                | 836          | 484  | 255         | 1.5050  |
|        |      | 6 | 980  | 200L     | 93.3                | 82.8           | 125.7        | 72.8  | 36.79       | 210                | 800          | 463  | 245         | 3.2380  |
| 60     | 45   | 2 | 2955 | 200L     | 94.0                | 91.0           | 138.1        | 79.9  | 14.84       | 165                | 981          | 568  | 270         | 1.0740  |
|        |      | 4 | 1485 | 200L     | 94.2                | 84.0           | 149.2        | 86.4  | 29.53       | 205                | 1000         | 579  | 270         | 1.7340  |
|        |      | 6 | 985  | 225S     | 93.7                | 86.1           | 146.4        | 84.7  | 44.52       | 235                | 1028         | 595  | 270         | 4.1970  |
| 75     | 55   | 2 | 2958 | 225S     | 94.3                | 89.2           | 171.6        | 99.3  | 18.12       | 220                | 1387         | 803  | 260         | 1.2170  |
|        |      | 4 | 1485 | 225S     | 94.6                | 85.5           | 178.5        | 103.3 | 36.09       | 250                | 1416         | 820  | 275         | 2.7970  |
|        |      | 6 | 985  | 250S     | 94.1                | 83.6           | 183.5        | 106.2 | 54.41       | 195                | 1245         | 721  | 275         | 6.4850  |
| 100    | 75   | 2 | 2980 | 250S     | 94.7                | 88.5           | 234.8        | 136.0 | 24.53       | 180                | 1827         | 1058 | 220         | 1.7110  |
|        |      | 4 | 1480 | 250S     | 95.0                | 86.5           | 239.5        | 138.7 | 49.38       | 180                | 1655         | 958  | 295         | 4.8340  |
|        |      | 6 | 985  | 250M     | 94.6                | 84.7           | 245.6        | 142.2 | 74.20       | 185                | 1546         | 895  | 260         | 7.6960  |
| 125    | 90   | 2 | 2970 | 250M     | 95.0                | 90.5           | 274.7        | 159.0 | 29.53       | 150                | 2196         | 1272 | 285         | 2.0550  |
|        |      | 4 | 1480 | 250M     | 95.2                | 91.3           | 271.7        | 157.3 | 59.26       | 205                | 2418         | 1400 | 295         | 5.0350  |
|        |      | 6 | 985  | 280S     | 94.9                | 84.3           | 295.2        | 170.9 | 89.04       | 215                | 2548         | 1475 | 265         | 9.1870  |
| 150    | 110  | 2 | 2980 | 280S     | 95.2                | 90.5           | 335.1        | 194.0 | 35.97       | 200                | 2580         | 1494 | 240         | 2.6540  |
|        |      | 4 | 1480 | 280S     | 95.4                | 87.6           | 345.4        | 200.0 | 72.43       | 180                | 2729         | 1580 | 230         | 6.7300  |
|        |      | 6 | 985  | 280M     | 95.1                | 87.6           | 346.5        | 200.6 | 108.8       | 270                | 2729         | 1580 | 270         | 11.230  |
| 175    | 132  | 2 | 2980 | 280M     | 95.4                | 90.5           | 401.2        | 232.3 | 43.17       | 200                | 3089         | 1788 | 240         | 3.1800  |
|        |      | 4 | 1484 | 280M     | 95.6                | 88.0           | 411.8        | 238.4 | 86.68       | 180                | 2876         | 1665 | 230         | 7.6100  |
|        |      | 6 | 988  | 315S     | 95.4                | 85.0           | 427.2        | 247.3 | 130.2       | 200                | 3000         | 1737 | 240         | 17.880  |
| 200    | 150  | 2 | 2980 | 315S     | 95.6                | 90.6           | 454.3        | 263.0 | 49.05       | 200                | 3859         | 2234 | 250         | 5.2000  |
|        |      | 4 | 1485 | 315S     | 95.8                | 87.5           | 469.6        | 271.9 | 98.43       | 180                | 3800         | 2200 | 230         | 11.460  |
|        |      | 6 | 990  | 315M     | 95.6                | 81.6           | 504.4        | 292.0 | 147.6       | 170                | 3263         | 1889 | 250         | 20.820  |
| 215    | 160  | 2 | 2980 | 315S     | 95.6                | 91.0           | 482.7        | 279.4 | 52.32       | 200                | 3716         | 2152 | 250         | 6.8500  |
|        |      | 4 | 1485 | 315S     | 95.8                | 88.0           | 498.1        | 288.4 | 105.0       | 180                | 3487         | 2019 | 230         | 14.160  |
|        |      | 6 | 990  | 315M     | 95.6                | 85.0           | 516.7        | 299.2 | 157.5       | 170                | 3636         | 2105 | 250         | 23.630  |
| 250    | 185  | 2 | 2980 | 315M     | 95.8                | 91.0           | 556.9        | 322.4 | 60.50       | 200                | 4074         | 2359 | 250         | 8.0600  |
|        |      | 4 | 1485 | 315M     | 96.0                | 88.0           | 574.7        | 332.7 | 121.4       | 180                | 3720         | 2154 | 230         | 17.250  |
|        |      | 6 | 990  | 315L     | 95.8                | 85.0           | 596.2        | 345.2 | 182.1       | 170                | 3539         | 2049 | 230         | 26.590  |
| 270    | 200  | 2 | 2980 | 315M     | 95.8                | 91.5           | 598.8        | 346.7 | 65.40       | 200                | 4611         | 2669 | 250         | 10.490  |
|        |      | 4 | 1485 | 315M     | 96.0                | 88.0           | 621.3        | 359.7 | 131.2       | 180                | 4353         | 2520 | 230         | 20.190  |
|        |      | 6 | 990  | 315L     | 95.8                | 86.0           | 637.1        | 368.8 | 196.9       | 170                | 4545         | 2632 | 250         | 29.190  |
| 300    | 220  | 2 | 2980 | 315L     | 95.8                | 91.0           | 662.3        | 383.4 | 71.94       | 140                | 4059         | 2350 | 240         | 12.190  |
|        |      | 4 | 1485 | 315L     | 96.0                | 86.0           | 699.3        | 404.9 | 144.4       | 200                | 5091         | 2947 | 260         | 22.190  |

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.)

60Hz

| Output |       |   |      | Frame No | Full Load Character |                |              |      |             | Starting Character |              |      | Max. Torque | Inertia |
|--------|-------|---|------|----------|---------------------|----------------|--------------|------|-------------|--------------------|--------------|------|-------------|---------|
| HP     | kW    | P | RPM  |          | Efficiency %        | Power Factor % | Current Amp. |      | Torque kg-m | Torque %           | Current Amp. |      | %           | kg-m²   |
|        |       |   |      |          |                     |                | 220V         | 380V |             |                    | 220V         | 380V |             |         |
| 1/4    | 0.185 | 2 | 3515 | 63       | 62.0                | 68.1           | 1.2          | 0.7  | 0.051       | 240                | 9            | 5    | 250         | 0.0020  |
|        |       | 4 | 1650 | 63       | 66.0                | 64.0           | 1.2          | 0.7  | 0.109       | 250                | 9            | 5    | 270         | 0.0020  |
|        |       | 6 | 1130 | 71       | 52.5                | 65.1           | 1.4          | 0.8  | 0.160       | 200                | 9            | 5    | 250         | 0.0040  |
| 1/2    | 0.37  | 2 | 3370 | 71       | 70.0                | 71.9           | 1.9          | 1.1  | 0.107       | 240                | 12           | 7    | 260         | 0.0020  |
|        |       | 4 | 1690 | 71       | 70.0                | 75.8           | 1.8          | 1.1  | 0.213       | 200                | 12           | 7    | 250         | 0.0040  |
|        |       | 6 | 1130 | 80       | 62.0                | 73.1           | 2.1          | 1.2  | 0.319       | 200                | 12           | 7    | 230         | 0.0065  |
| 1      | 0.75  | 2 | 3450 | 80       | 76.0                | 80.9           | 3.2          | 1.9  | 0.212       | 220                | 19           | 11   | 280         | 0.0051  |
|        |       | 4 | 1730 | 80       | 84.7                | 73.8           | 3.2          | 1.8  | 0.422       | 230                | 19           | 11   | 280         | 0.0092  |
|        |       | 6 | 1140 | 90L      | 77.0                | 64.0           | 4.0          | 2.3  | 0.641       | 200                | 19           | 11   | 230         | 0.0172  |
| 2      | 1.5   | 2 | 3460 | 90L      | 81.5                | 84.1           | 5.7          | 3.3  | 0.422       | 250                | 40           | 23   | 280         | 0.0065  |
|        |       | 4 | 1730 | 90L      | 81.5                | 76.0           | 6.4          | 3.7  | 0.845       | 220                | 40           | 23   | 280         | 0.0180  |
|        |       | 6 | 1140 | 100L     | 84.0                | 71.0           | 6.6          | 3.8  | 1.282       | 180                | 40           | 23   | 220         | 0.0380  |
| 3      | 2.2   | 2 | 3480 | 90L      | 82.5                | 86.0           | 8.1          | 4.7  | 0.616       | 250                | 68           | 39   | 280         | 0.0110  |
|        |       | 4 | 1740 | 100L     | 83.0                | 82.1           | 8.5          | 4.9  | 1.232       | 210                | 68           | 39   | 260         | 0.0200  |
|        |       | 6 | 1130 | 112M     | 78.5                | 79.2           | 9.3          | 5.4  | 1.897       | 180                | 68           | 39   | 230         | 0.0580  |
| 5      | 3.7   | 2 | 3450 | 112M     | 84.5                | 90.0           | 12.8         | 7.4  | 1.045       | 240                | 110          | 64   | 280         | 0.0260  |
|        |       | 4 | 1745 | 112M     | 85.0                | 84.8           | 13.5         | 7.8  | 2.066       | 250                | 110          | 64   | 270         | 0.0445  |
|        |       | 6 | 1150 | 132S     | 85.5                | 77.5           | 14.7         | 8.5  | 3.135       | 180                | 110          | 64   | 230         | 0.1420  |
| 7.5    | 5.5   | 2 | 3490 | 132S     | 86.5                | 85.0           | 19.6         | 11.4 | 1.536       | 220                | 160          | 93   | 260         | 0.0520  |
|        |       | 4 | 1770 | 132S     | 87.5                | 83.0           | 19.9         | 11.5 | 3.028       | 220                | 160          | 93   | 250         | 0.1120  |
|        |       | 6 | 1150 | 132S     | 87.5                | 77.5           | 21.3         | 12.3 | 4.661       | 200                | 160          | 93   | 230         | 0.1190  |
| 10     | 7.5   | 2 | 3510 | 132S     | 87.5                | 89.6           | 25.1         | 14.5 | 2.082       | 200                | 200          | 116  | 210         | 0.0680  |
|        |       | 4 | 1770 | 132S     | 87.5                | 84.0           | 26.8         | 15.5 | 4.129       | 220                | 200          | 116  | 250         | 0.1450  |

50Hz

| Output |       |   |      | Frame No | Full Load Character |                |              |      |             | Starting Character |              |      | Max. Torque | Inertia           |
|--------|-------|---|------|----------|---------------------|----------------|--------------|------|-------------|--------------------|--------------|------|-------------|-------------------|
| HP     | kW    | P | RPM  |          | Efficiency %        | Power Factor % | Current Amp. |      | Torque kg-m | Torque %           | Current Amp. |      | %           | kg-m <sup>2</sup> |
|        |       |   |      |          |                     |                | 220V         | 380V |             |                    | 220V         | 380V |             |                   |
| 1/4    | 0.185 | 2 | 2910 | 63       | 52.8                | 80.0           | 1.15         | 0.67 | 0.062       | 240                | 9            | 5    | 250         | 0.0020            |
|        |       | 4 | 1425 | 63       | 57.0                | 68.5           | 1.24         | 0.72 | 0.127       | 220                | 9            | 5    | 240         | 0.0020            |
|        |       | 6 | 950  | 71       | 45.5                | 88.0           | 1.21         | 0.70 | 0.190       | 260                | 9            | 5    | 270         | 0.0040            |
| 1/2    | 0.37  | 2 | 2870 | 71       | 63.9                | 80.0           | 1.90         | 1.10 | 0.126       | 250                | 12           | 7    | 260         | 0.0020            |
|        |       | 4 | 1435 | 71       | 66.0                | 76.1           | 1.93         | 1.12 | 0.251       | 200                | 12           | 7    | 230         | 0.0040            |
|        |       | 6 | 942  | 80       | 59.7                | 77.6           | 2.10         | 1.21 | 0.383       | 200                | 12           | 7    | 230         | 0.0065            |
| 1      | 0.75  | 2 | 2820 | 80       | 72.1                | 87.0           | 3.14         | 1.82 | 0.259       | 220                | 19           | 11   | 280         | 0.0051            |
|        |       | 4 | 1425 | 80       | 72.1                | 80.0           | 3.41         | 1.98 | 0.513       | 250                | 19           | 11   | 280         | 0.0092            |
|        |       | 6 | 960  | 90L      | 70.0                | 70.0           | 4.02         | 2.33 | 0.761       | 190                | 19           | 11   | 230         | 0.0172            |
| 2      | 1.5   | 2 | 2810 | 90L      | 77.2                | 89.0           | 5.73         | 3.32 | 0.520       | 250                | 40           | 23   | 280         | 0.0065            |
|        |       | 4 | 1435 | 90L      | 77.2                | 81.1           | 6.29         | 3.64 | 1.019       | 220                | 40           | 23   | 280         | 0.0180            |
|        |       | 6 | 935  | 100L     | 75.2                | 80.0           | 6.54         | 3.79 | 1.563       | 180                | 40           | 23   | 220         | 0.0380            |
| 3      | 2.2   | 2 | 2840 | 90L      | 79.7                | 88.5           | 8.19         | 4.74 | 0.755       | 250                | 67           | 39   | 280         | 0.0110            |
|        |       | 4 | 1440 | 100L     | 79.7                | 85.0           | 8.52         | 4.93 | 1.489       | 210                | 67           | 39   | 260         | 0.0200            |
|        |       | 6 | 950  | 112M     | 77.7                | 80.3           | 9.25         | 5.36 | 2.257       | 180                | 67           | 39   | 230         | 0.0580            |
| 5      | 3.7   | 2 | 2900 | 112M     | 83.1                | 92.0           | 12.7         | 7.35 | 1.243       | 240                | 109          | 63   | 320         | 0.0260            |
|        |       | 4 | 1440 | 112M     | 83.1                | 82.7           | 14.1         | 8.18 | 2.504       | 220                | 109          | 63   | 290         | 0.0445            |
|        |       | 6 | 967  | 132S     | 81.4                | 82.0           | 14.5         | 8.42 | 3.729       | 180                | 109          | 63   | 230         | 0.1420            |
| 7.5    | 5.5   | 2 | 2937 | 132S     | 84.7                | 90.0           | 18.9         | 11.0 | 1.825       | 210                | 161          | 93   | 260         | 0.0520            |
|        |       | 4 | 1450 | 132S     | 84.7                | 84.0           | 20.3         | 11.7 | 3.696       | 220                | 161          | 93   | 280         | 0.1120            |
|        |       | 6 | 970  | 132S     | 83.1                | 82.5           | 21.1         | 12.2 | 5.525       | 200                | 161          | 93   | 230         | 0.1190            |
| 10     | 7.5   | 2 | 2930 | 132S     | 86.0                | 93.0           | 24.6         | 14.2 | 2.494       | 200                | 200          | 116  | 250         | 0.0680            |
|        |       | 4 | 1468 | 132S     | 86.0                | 84.1           | 27.2         | 15.8 | 4.979       | 220                | 200          | 116  | 250         | 0.1450            |

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.)



## 特性表 Character List

### 超高效率輕量型感應馬達 Aluminum Frame

60Hz

| Output |      |   |      | Frame No | Full Load Character |                |              |      |             | Starting Character |              |      | Max. Torque | Inertia |
|--------|------|---|------|----------|---------------------|----------------|--------------|------|-------------|--------------------|--------------|------|-------------|---------|
| HP     | kW   | P | RPM  |          | Efficiency %        | Power Factor % | Current Amp. |      | Torque kg-m | Torque %           | Current Amp. |      | %           | kg-m²   |
|        |      |   |      |          |                     |                | 220V         | 380V |             |                    | 220V         | 380V |             |         |
| 1      | 0.75 | 2 | 3530 | 80       | 77.0                | 82.4           | 3.10         | 1.80 | 0.207       | 350                | 26           | 15   | 430         | 0.0071  |
|        |      | 4 | 1750 | 80       | 85.5                | 67.7           | 3.40         | 1.97 | 0.418       | 390                | 26           | 15   | 420         | 0.0120  |
|        |      | 6 | 1145 | 90L      | 82.5                | 65.7           | 3.63         | 2.10 | 0.638       | 195                | 20           | 12   | 265         | 0.0192  |
| 2      | 1.5  | 2 | 3500 | 90L      | 85.5                | 84.3           | 5.46         | 3.16 | 0.418       | 335                | 46           | 27   | 395         | 0.0130  |
|        |      | 4 | 1750 | 90L      | 86.5                | 78.5           | 5.80         | 3.36 | 0.835       | 325                | 42           | 24   | 385         | 0.0200  |
|        |      | 6 | 1165 | 100L     | 88.5                | 68.4           | 6.50         | 3.76 | 1.255       | 170                | 44           | 25   | 270         | 0.0600  |
| 3      | 2.2  | 2 | 3500 | 90L      | 86.5                | 85.6           | 7.80         | 4.51 | 0.613       | 390                | 70           | 41   | 400         | 0.0151  |
|        |      | 4 | 1770 | 100L     | 89.5                | 77.1           | 8.37         | 4.85 | 1.211       | 320                | 75           | 43   | 330         | 0.0445  |
|        |      | 6 | 1160 | 112M     | 89.5                | 70.9           | 9.10         | 5.27 | 1.848       | 170                | 57           | 33   | 265         | 0.0807  |
| 5      | 3.7  | 2 | 3540 | 112M     | 88.5                | 90.7           | 12.1         | 7.01 | 1.019       | 320                | 120          | 69   | 385         | 0.0470  |
|        |      | 4 | 1760 | 112M     | 89.5                | 79.2           | 13.7         | 7.93 | 2.049       | 225                | 110          | 64   | 325         | 0.0740  |
|        |      | 6 | 1165 | 132S     | 89.5                | 78.1           | 13.9         | 8.05 | 3.095       | 185                | 105          | 61   | 280         | 0.1440  |
| 7.5    | 5.5  | 2 | 3550 | 132S     | 89.5                | 85.0           | 19.0         | 11.0 | 1.510       | 245                | 140          | 81   | 295         | 0.0540  |
|        |      | 4 | 1770 | 132S     | 91.7                | 80.1           | 19.7         | 11.4 | 3.028       | 250                | 160          | 93   | 310         | 0.1140  |
| 10     | 7.5  | 2 | 3550 | 132S     | 90.2                | 87.3           | 25.0         | 14.5 | 2.059       | 255                | 200          | 116  | 300         | 0.0700  |

50Hz

| Output |      |   |      | Frame No | Full Load Character |                |              |      |             | Starting Character |              |      | Max. Torque | Inertia |
|--------|------|---|------|----------|---------------------|----------------|--------------|------|-------------|--------------------|--------------|------|-------------|---------|
| HP     | kW   | P | RPM  |          | Efficiency %        | Power Factor % | Current Amp. |      | Torque kg-m | Torque %           | Current Amp. |      | %           | kg-m²   |
|        |      |   |      |          |                     |                | 220V         | 380V |             |                    | 220V         | 380V |             |         |
| 1      | 0.75 | 2 | 2860 | 80       | 80.7                | 88.3           | 2.76         | 1.60 | 0.256       | 330                | 24           | 14   | 390         | 0.0071  |
|        |      | 4 | 1440 | 80       | 82.5                | 72.7           | 3.28         | 1.90 | 0.508       | 315                | 24           | 14   | 375         | 0.0120  |
|        |      | 6 | 940  | 90L      | 78.9                | 72.2           | 3.45         | 2.00 | 0.778       | 200                | 19           | 11   | 235         | 0.0192  |
| 2      | 1.5  | 2 | 2879 | 90L      | 84.2                | 84.3           | 5.54         | 3.21 | 0.508       | 340                | 41           | 24   | 360         | 0.0130  |
|        |      | 4 | 1450 | 90L      | 85.3                | 78.6           | 5.87         | 3.40 | 1.008       | 320                | 47           | 27   | 360         | 0.0200  |
|        |      | 6 | 965  | 100L     | 82.5                | 70.2           | 6.80         | 3.93 | 1.515       | 175                | 41           | 24   | 250         | 0.0600  |
| 3      | 2.2  | 2 | 2845 | 90L      | 85.9                | 85.4           | 7.87         | 4.56 | 0.754       | 330                | 64           | 37   | 355         | 0.0151  |
|        |      | 4 | 1460 | 100L     | 86.7                | 75.6           | 8.81         | 5.10 | 1.468       | 300                | 69           | 40   | 325         | 0.0445  |
|        |      | 6 | 960  | 112M     | 84.3                | 72.1           | 9.50         | 5.50 | 2.233       | 175                | 55           | 32   | 265         | 0.0807  |
| 5      | 3.7  | 2 | 2930 | 112M     | 88.1                | 89.9           | 12.3         | 7.10 | 1.231       | 290                | 109          | 63   | 345         | 0.0470  |
|        |      | 4 | 1465 | 112M     | 88.6                | 82.4           | 13.3         | 7.70 | 2.461       | 235                | 109          | 63   | 305         | 0.0740  |
|        |      | 6 | 965  | 132S     | 86.8                | 76.2           | 14.7         | 8.50 | 3.736       | 200                | 100          | 58   | 275         | 0.1440  |
| 7.5    | 5.5  | 2 | 2940 | 132S     | 89.2                | 87.6           | 18.5         | 10.7 | 1.823       | 230                | 138          | 80   | 290         | 0.0540  |
|        |      | 4 | 1460 | 132S     | 89.6                | 80.2           | 20.1         | 11.6 | 3.671       | 240                | 145          | 84   | 295         | 0.1140  |
| 10     | 7.5  | 2 | 2950 | 132S     | 90.1                | 87.2           | 25.0         | 14.5 | 2.478       | 270                | 190          | 110  | 300         | 0.0700  |

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.)

# AE 臥式

|     |     |     |
|-----|-----|-----|
| AEF | AEK | AE  |
| IE1 | IE3 | GB3 |

## 標準型感應電動機

Standard Induction Motor,  
Iron-casting Frame,

► Foot Mounted.

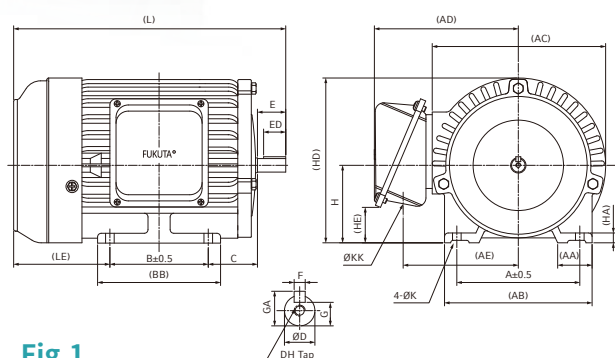


Fig.1

| Specification 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 | 141   | 117   | 94    | 80  | 100 | 40  | 63  | 8    | 134   |
| 1/2              | 1/2      | 1/4      | —      | 71        | 1   | 112              | 37.5 | 138 | 163.5 | 129   | 107   | 90  | 119 | 45  | 71  | 11   | 152   |
| 1                | 1        | 1/2      | 1/4    | 80        | 1   | 125              | 38   | 155 | 175   | 138   | 114.5 | 100 | 130 | 50  | 80  | 9    | 168   |
| 2, 3             | 2        | 1        | 1/2    | 90L       | 1   | 140              | 35.5 | 170 | 201   | 151   | 129   | 125 | 150 | 56  | 90  | 10   | 190   |
| —                | 3        | 2        | 1      | 100L      | 2   | 160              | 45   | 196 | 218.5 | 173   | 144   | 140 | 175 | 63  | 100 | 12.5 | 241   |
| 5                | 5        | 3        | 2      | 112M      | 2   | 190              | 45   | 224 | 236   | 181   | 153   | 140 | 175 | 70  | 112 | 14   | 265   |
| 7.5, 10          | 7.5      | 5        | 3      | 132S      | 2   | 216              | 46   | 254 | 273   | 213   | 176   | 140 | 175 | 89  | 132 | 16   | 310   |
| —                | 10       | 7.5      | 5      | 132M      | 2   | 216              | 46   | 254 | 273   | 213   | 176   | 178 | 213 | 89  | 132 | 16   | 310   |
| 15, 20           | 15       | 10       | 7.5    | 160M      | 3   | 254              | 75   | 300 | 334   | 245   | 207.5 | 210 | 256 | 108 | 160 | 18   | 373   |
| 25               | 20       | 15       | 10     | 160L      | 3   | 254              | 75   | 300 | 334   | 245   | 207.5 | 254 | 300 | 108 | 160 | 18   | 373   |
| 30               | 25, 30   | 20       | 15     | 180M      | 3   | 279              | 80   | 355 | 381   | 293   | 240.5 | 241 | 297 | 121 | 180 | 20   | 417   |
| 40               | 40       | 25, 30   | 20     | 180L      | 3   | 279              | 80   | 355 | 381   | 293   | 240.5 | 279 | 335 | 121 | 180 | 20   | 417   |
| 50, 60           | —        | —        | —      | 200L      | 3   | 318              | 80   | 398 | 423   | 319   | 268   | 305 | 350 | 133 | 200 | 24   | 466   |
| —                | 50, 60   | 40, 50   | 25, 30 | 200L      | 3   | 318              | 80   | 398 | 423   | 319   | 268   | 305 | 350 | 133 | 200 | 24   | 466   |
| 75               | —        | —        | —      | 225S      | 3   | 356              | 94.5 | 453 | 473   | 390.5 | 321   | 286 | 354 | 149 | 225 | 30   | 526.5 |
| —                | 75       | 60       | 40     | 225S      | 3   | 356              | 94.5 | 453 | 473   | 390.5 | 321   | 286 | 354 | 149 | 225 | 30   | 526.5 |
| 100              | —        | —        | —      | 250S      | 4   | 406              | 104  | 501 | 526   | 468.5 | 379   | 311 | 425 | 168 | 250 | 37   | 589.5 |
| —                | 100      | 75       | 50     | 250S      | 4   | 406              | 104  | 501 | 526   | 468.5 | 379   | 311 | 425 | 168 | 250 | 37   | 589.5 |
| 125              | —        | —        | —      | 250M      | 4   | 406              | 104  | 501 | 526   | 468.5 | 379   | 349 | 425 | 168 | 250 | 37   | 589.5 |
| —                | 125      | 100      | 60     | 250M      | 4   | 406              | 104  | 501 | 526   | 468.5 | 379   | 349 | 425 | 168 | 250 | 37   | 589.5 |
| 150              | —        | —        | —      | 280S      | 5   | 457              | 110  | 560 | 632   | 544   | 434   | 368 | 445 | 190 | 280 | 36   | 705   |
| —                | 150      | 125      | 75     | 280S      | 5   | 457              | 110  | 560 | 632   | 544   | 434   | 368 | 445 | 190 | 280 | 36   | 705   |
| 175              | —        | —        | —      | 280M      | 5   | 457              | 110  | 560 | 632   | 544   | 434   | 419 | 496 | 190 | 280 | 36   | 705   |
| —                | 175      | 150      | 100    | 280M      | 5   | 457              | 110  | 560 | 632   | 544   | 434   | 419 | 496 | 190 | 280 | 36   | 705   |
| 200, 215         | —        | —        | —      | 315S      | 5   | 508              | 115  | 615 | 632   | 544   | 434   | 406 | 490 | 216 | 315 | 40   | 740.5 |
| —                | 200, 215 | 175      | 125    | 315S      | 5   | 508              | 115  | 615 | 632   | 544   | 434   | 406 | 490 | 216 | 315 | 40   | 740.5 |
| 250, 270         | —        | —        | —      | 315M      | 5   | 508              | 115  | 615 | 632   | 544   | 434   | 457 | 540 | 216 | 315 | 40   | 740.5 |
| —                | 250, 270 | 200, 215 | 150    | 315M      | 5   | 508              | 115  | 615 | 632   | 544   | 434   | 457 | 540 | 216 | 315 | 40   | 740.5 |
| 300              | —        | —        | —      | 315L      | 5   | 508              | 115  | 615 | 632   | 544   | 434   | 457 | 667 | 216 | 315 | 40   | 740.5 |
| —                | 300      | 250, 270 | —      | 315L      | 5   | 508              | 115  | 615 | 632   | 544   | 434   | 457 | 667 | 216 | 315 | 40   | 740.5 |

- 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.IE1 規格為外銷使用。(IE1 Spec. is limited for oversea sales market.)

## Standard Induction Motor

AE Series

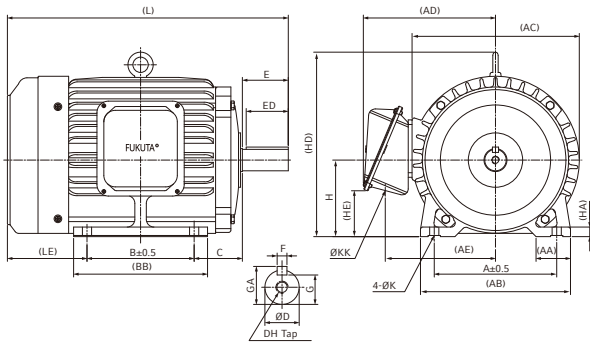


Fig.2

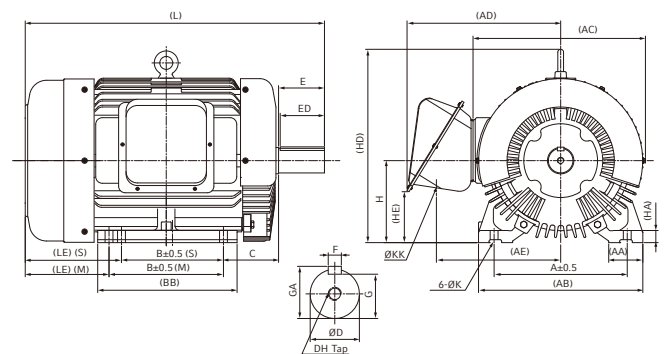


Fig.4

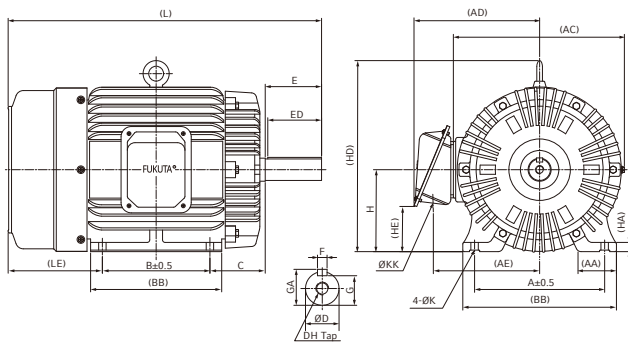


Fig.3

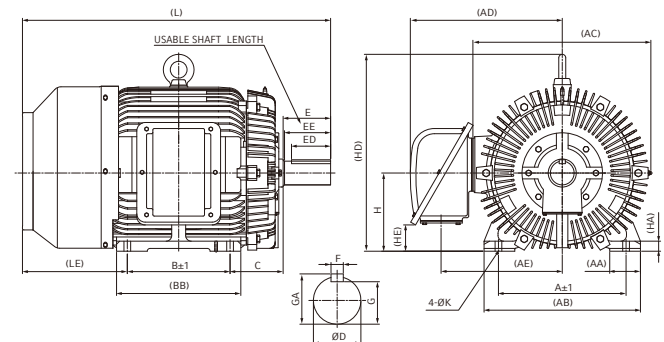


Fig.5

| B3 Dimensions 尺寸 |      |    |        |       | Shaft出力軸 尺寸 |     |     |       |    |      |      |         |                 |                 | Wt.重量        |         |
|------------------|------|----|--------|-------|-------------|-----|-----|-------|----|------|------|---------|-----------------|-----------------|--------------|---------|
| HE               | K    | KK | L      | LE    | Shaft End   |     |     |       |    |      |      |         | Bearings        |                 | Foot mounted |         |
|                  |      |    |        |       | D           | E   | ED  | EE    | F  | G    | GA   | DH      | Load Side       | Opposite        | IE1          | IE3     |
| 29               | 7    | 22 | 221    | 78    | 11          | 23  | 18  | —     | 4  | 8.5  | 12.5 | M4*10   | 6201ZZ          | 6201ZZ          | 9            | —       |
| 42.5             | 7    | 22 | 240    | 75    | 14          | 30  | 25  | —     | 5  | 11   | 16   | M5*12.5 | 6202ZZ          | 6202ZZ          | 11           | —       |
| 44               | 10   | 22 | 273    | 83    | 19          | 40  | 35  | —     | 6  | 15.5 | 21.5 | M6*16   | 6204ZZ          | 6203ZZ          | 15           | 18      |
| 54               | 10   | 22 | 325    | 94    | 24          | 50  | 45  | —     | 8  | 20   | 27   | M8*19   | 6205ZZ          | 6204ZZ          | 22           | 26      |
| 60               | 12   | 28 | 367    | 104   | 28          | 60  | 55  | —     | 8  | 24   | 31   | M10*22  | 6206ZZ          | 6205ZZ          | 30           | 39      |
| 75               | 12   | 28 | 388    | 118   | 28          | 60  | 55  | —     | 8  | 24   | 31   | M10*22  | 6306ZZ          | 6305ZZ          | 40           | 47      |
| 73               | 12   | 35 | 448    | 139   | 38          | 80  | 75  | —     | 10 | 33   | 41   | M12*28  | 6308ZZ          | 6306ZZ          | 60           | 68      |
| 73               | 12   | 35 | 486    | 139   | 38          | 80  | 75  | —     | 10 | 33   | 41   | M12*28  | 6308ZZ          | 6306ZZ          | 70           | 75      |
| 88               | 14.5 | 35 | 612    | 184   | 42          | 110 | 105 | —     | 12 | 37   | 45   | M16*36  | 6309ZZ / C3(2P) | 6307ZZ / C3(2P) | 115          | 124     |
| 88               | 14.5 | 35 | 656    | 184   | 42          | 110 | 105 | —     | 12 | 37   | 45   | M16*36  | 6309ZZ / C3(2P) | 6307ZZ / C3(2P) | 135          | 146     |
| 95               | 14.5 | 52 | 669.5  | 197.5 | 48          | 110 | 105 | —     | 14 | 42.5 | 51.5 | M16*36  | 6311ZZ C3       | 6310ZZ C3       | 170/180      | 187/197 |
| 95               | 14.5 | 52 | 707.5  | 197.5 | 55          | 110 | 105 | —     | 16 | 49   | 59   | M20*42  | 6312ZZ C3       | 6310ZZ C3       | 210          | 217     |
| 114              | 18.5 | 65 | 773    | 225   | 55          | 110 | 105 | —     | 16 | 49   | 59   | M20*42  | 6313ZZ C3       | 6212ZZ C3       | 280/310      | 300/330 |
| 114              | 18.5 | 65 | 803    | 225   | 60          | 140 | 135 | —     | 18 | 53   | 64   | M20*42  | 6313ZZ C3       | 6212ZZ C3       | 280/310      | 300/330 |
| 152              | 18.5 | 92 | 781    | 236   | 55          | 110 | 105 | —     | 16 | 49   | 59   | 42      | 6315ZZ C3       | 6213ZZ C3       | 360          | 367     |
| 152              | 18.5 | 92 | 811    | 236   | 65          | 140 | 135 | —     | 18 | 58   | 69   | M20*42  | 6315ZZ C3       | 6213ZZ C3       | 360          | 367     |
| 155              | 24   | 92 | 882.5  | 293.5 | 55          | 110 | 105 | —     | 16 | 49   | 59   | 42      | 6316ZZ C3       | 6313ZZ C3       | 513          | 560     |
| 155              | 24   | 92 | 912.5  | 293.5 | 75          | 140 | 135 | —     | 20 | 67.5 | 79.5 | M20*42  | 6316ZZ C3       | 6313ZZ C3       | 513          | 560     |
| 155              | 24   | 92 | 882.5  | 255.5 | 55          | 110 | 105 | —     | 16 | 49   | 59   | 42      | 6316ZZ C3       | 6313ZZ C3       | 552          | 570     |
| 155              | 24   | 92 | 912.5  | 255.5 | 75          | 140 | 135 | —     | 20 | 67.5 | 79.5 | M20*42  | 6316ZZ C3       | 6313ZZ C3       | 552          | 570     |
| 94               | 24   | —  | 1039.5 | 371.5 | 55          | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 792          | 792     |
| 94               | 24   | —  | 1103.5 | 375.5 | 85          | 170 | 140 | 165   | 22 | 76   | 90   | —       | 6320ZZ C3       | 6316ZZ C3       | 792          | 792     |
| 94               | 24   | —  | 1089.5 | 370.5 | 55          | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 850          | 850     |
| 94               | 24   | —  | 1153.5 | 374.5 | 85          | 170 | 140 | 165   | 22 | 76   | 90   | —       | 6320ZZ C3       | 6316ZZ C3       | 850          | 850     |
| 129              | 28   | —  | 1133   | 401   | 55          | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 1050         | 1050    |
| 129              | 28   | —  | 1193   | 401   | 95          | 170 | 140 | 167.5 | 25 | 86   | 100  | —       | 6320ZZ C3       | 6316ZZ C3       | 1050         | 1050    |
| 129              | 28   | —  | 1184   | 401   | 55          | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 1100         | 1100    |
| 129              | 28   | —  | 1244   | 401   | 95          | 170 | 140 | 167.5 | 25 | 86   | 100  | —       | 6320ZZ C3       | 6316ZZ C3       | 1100         | 1100    |
| 129              | 28   | —  | 1307   | 397   | 55          | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 1660         | 1700    |
| 129              | 28   | —  | 1367   | 397   | 95          | 170 | 140 | 167.5 | 25 | 86   | 100  | —       | 6320ZZ C3       | 6316ZZ C3       | 1660         | 1700    |

■ 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。(All data is subject to change without prior notification.)

# AE 立式

|      |      |      |
|------|------|------|
| AEVF | AEVK | AEVT |
| IE1  | IE3  | GB3  |

## 標準型感應電動機

Standard Induction Motor,  
Iron-casting Frame,

► Flange Mounted.

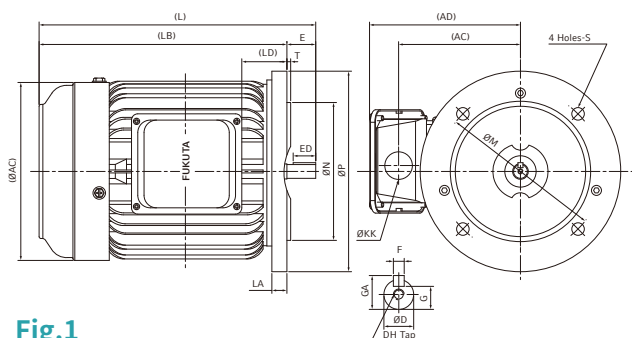


Fig.1

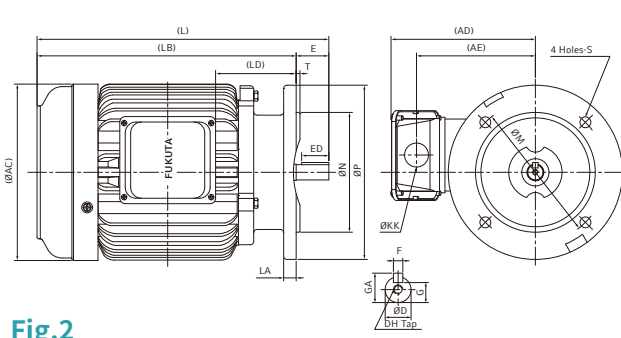


Fig.2

| Specification 規格 |          |          |        |           |     | B5 Dimensions 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        | 1   | 142              | 117   | 94    | —     | 22 | 221    | 12   | 198    | 36    | 130 |
| 1/2              | 1/2      | 1/4      | —      | 71        | 2   | 162              | 133   | 109   | —     | 22 | 268    | 11.5 | 238    | 74    | 130 |
| 1                | 1        | 1/2      | 1/4    | 80        | 1   | 175              | 138   | 119   | —     | 22 | 272.5  | 10   | 232.5  | 48    | 165 |
| 2, 3             | 2        | 1        | 1/2    | 90L       | 2   | 196              | 155   | 132   | —     | 22 | 364    | 11   | 314    | 106   | 165 |
| —                | 3        | 2        | 1      | 100L      | 1   | 219              | 170   | 144   | 141.5 | 28 | 367    | 16   | 307    | 71    | 215 |
| 5                | 5        | 3        | 2      | 112M      | 2   | 234              | 181   | 154   | 152   | 28 | 428    | 15   | 368    | 118   | 215 |
| 7.5, 10          | 7.5      | 5        | 3      | 132S      | 3   | 268              | 214   | 176   | 178   | 35 | 448    | 19   | 368    | 88    | 265 |
| —                | 10       | 7.5      | 5      | 132M      | 3   | 268              | 214   | 176   | 178   | 35 | 486    | 19   | 406    | 106   | 265 |
| 15, 20           | 15       | 10       | 7.5    | 160M      | 4   | 319              | 246   | 208   | 215   | 35 | 612    | 20   | 502    | 128.5 | 300 |
| 25               | 20       | 15       | 10     | 160L      | 4   | 319              | 246   | 208   | 215   | 35 | 656    | 20   | 546    | 151   | 300 |
| 30               | 25, 30   | 20       | 15     | 180M      | 4   | 355              | 300   | 244   | 239   | 52 | 669.5  | 20   | 559.5  | 151.5 | 350 |
| 40               | 40       | 25, 30   | 20     | 180L      | 4   | 355              | 300   | 244   | 239   | 52 | 707.5  | 20   | 597.5  | 170.5 | 350 |
| 50, 60           | —        | —        | —      | 200L      | 5   | 399              | 320   | 263   | 264   | 65 | 767    | 20   | 663    | 163   | 400 |
| —                | 50, 60   | 40, 50   | 25, 30 | 200L      | 5   | 399              | 320   | 263   | 264   | 65 | 803    | 20   | 663    | 163   | 400 |
| 75               | —        | —        | —      | 225S      | 6   | 448.2            | 372   | 303   | 301.5 | 92 | 781    | 22   | 671    | 190   | 500 |
| —                | 75       | 60       | 40     | 225S      | 6   | 448.2            | 372   | 303   | 301.5 | 92 | 811    | 22   | 671    | 190   | 500 |
| 100              | —        | —        | —      | 250S      | 6   | 498.1            | 455.7 | 366.5 | 323.6 | 92 | 882.5  | 22   | 772.5  | 216   | 500 |
| —                | 100      | 75       | 50     | 250S      | 6   | 498.1            | 455.7 | 366.5 | 323.6 | 92 | 912.5  | 22   | 772.5  | 216   | 500 |
| 125              | —        | —        | —      | 250M      | 6   | 498.1            | 455.7 | 366.5 | 323.6 | 92 | 882.5  | 22   | 772.5  | 216   | 500 |
| —                | 125      | 100      | 60     | 250M      | 6   | 498.1            | 455.7 | 366.5 | 323.6 | 92 | 912.5  | 22   | 772.5  | 216   | 500 |
| 150              | —        | —        | —      | 280S      | 7   | 605              | 544   | 434   | 425   | —  | 1089.5 | 25   | 979.5  | 232   | 600 |
| —                | 150      | 125      | 75     | 280S      | 7   | 605              | 544   | 434   | 425   | —  | 1149.5 | 25   | 979.4  | 232   | 600 |
| 175              | —        | —        | —      | 280M      | 7   | 605              | 544   | 434   | 425   | —  | 1089.5 | 25   | 979.5  | 232   | 600 |
| —                | 175      | 150      | 100    | 280M      | 7   | 605              | 544   | 434   | 425   | —  | 1149.5 | 25   | 979.4  | 232   | 600 |
| 200, 215         | —        | —        | —      | 315S      | 7   | 605              | 544   | 434   | 434   | —  | 1128.5 | 25   | 1018.5 | 251   | 600 |
| —                | 200, 215 | 175      | 125    | 315S      | 7   | 605              | 544   | 434   | 434   | —  | 1188.5 | 25   | 1018.5 | 251   | 600 |
| 250, 270         | —        | —        | —      | 315M      | 7   | 605              | 544   | 434   | 434   | —  | 1179.5 | 25   | 1069.5 | 277   | 600 |
| —                | 250, 270 | 200, 215 | 150    | 315M      | 7   | 605              | 544   | 434   | 434   | —  | 1239.5 | 25   | 1069.5 | 277   | 600 |
| 300              | —        | —        | —      | 315L      | 7   | 605              | 544   | 434   | 434   | —  | 1306.5 | 25   | 1196.5 | 340   | 600 |
| —                | 300      | 250, 270 | —      | 315L      | 7   | 605              | 544   | 434   | 434   | —  | 1366.5 | 25   | 1196.5 | 340   | 600 |

■ Remark: 1.Tolerance of Shaft End Diameter "D": Ø11~ Ø28: j6 Ø38~ Ø48: k6 Ø55~ Ø60: m6

2.Tolerance of Guidance Diameter "N": h7

3.IE1 規格為外銷使用。(IE1 Spec. is limited for oversea sales market.)

**FUKUTA**

## Standard Induction Motor

AE Series

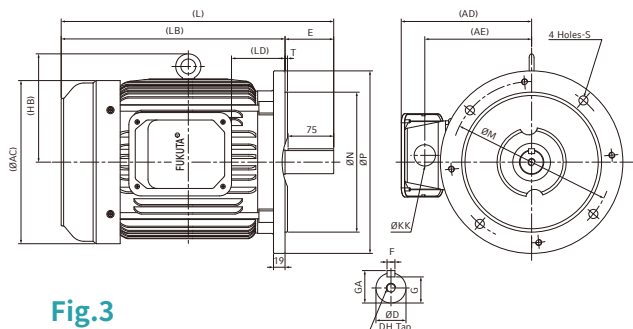


Fig.3

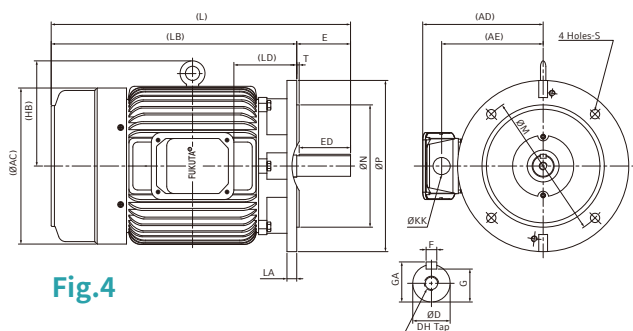


Fig.4

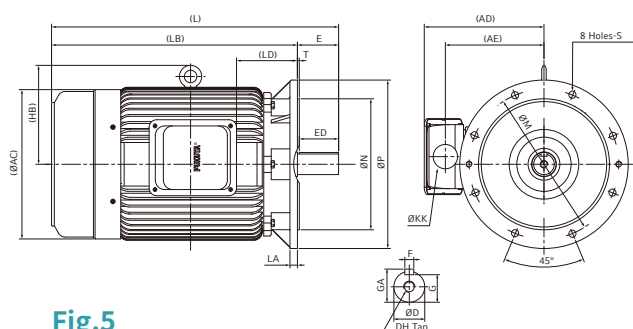


Fig.5

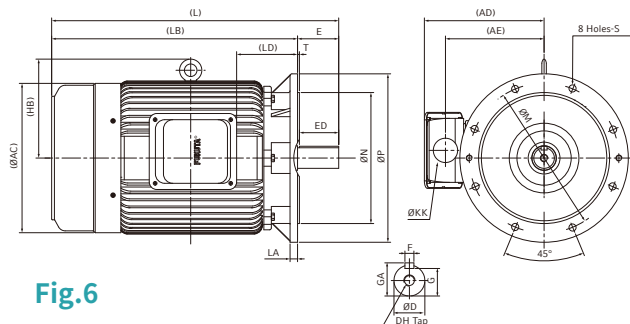


Fig.6

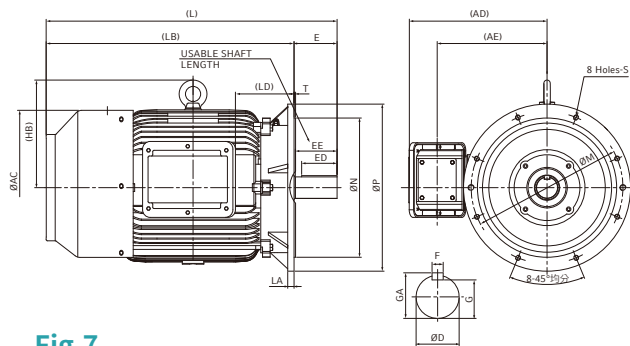


Fig.7

| B5 Dimensions 尺寸 |     |      |     | Shaft 出力軸 尺寸 |     |     |       |    |      |      |         |                 |                 | Wt.重量        |         |
|------------------|-----|------|-----|--------------|-----|-----|-------|----|------|------|---------|-----------------|-----------------|--------------|---------|
| N                | P   | S    | T   | Shaft End    |     |     |       |    |      |      |         | Bearings        |                 | Foot mounted |         |
|                  |     |      |     | D            | E   | ED  | EE    | F  | G    | GA   | DH      | Load Side       | Opposite        | IE1          | IE3     |
| 110              | 160 | 10   | 3   | 11           | 23  | 18  | —     | 4  | 8.5  | 12.5 | M4*10   | 6201ZZ          | 6201ZZ          | 9            | —       |
| 110              | 160 | 10   | 3.5 | 14           | 30  | 25  | —     | 5  | 11   | 16   | M5*12.5 | 6202ZZ          | 6202ZZ          | 11           | —       |
| 130              | 200 | 12   | 3.5 | 19           | 40  | 35  | —     | 6  | 15.5 | 21.5 | M6*16   | 6204ZZ          | 6203ZZ          | 16           | 19      |
| 130              | 200 | 12   | 3.5 | 24           | 50  | 45  | —     | 8  | 20   | 27   | M8*19   | 6205ZZ          | 6204ZZ          | 25           | 29      |
| 180              | 250 | 15   | 3.5 | 28           | 60  | 55  | —     | 8  | 24   | 31   | M10*22  | 6206ZZ          | 6205ZZ          | 33           | 42      |
| 180              | 250 | 15   | 4   | 28           | 60  | 55  | —     | 8  | 24   | 31   | M10*22  | 6306ZZ          | 6305ZZ          | 45           | 52      |
| 230              | 300 | 15   | 4   | 38           | 80  | 75  | —     | 10 | 33   | 41   | M12*28  | 6308ZZ          | 6306ZZ          | 65           | 73      |
| 230              | 300 | 15   | 4   | 38           | 80  | 75  | —     | 10 | 33   | 41   | M12*28  | 6308ZZ          | 6306ZZ          | 75           | 80      |
| 250              | 350 | 19   | 5   | 42           | 110 | 105 | —     | 12 | 37   | 45   | M16*36  | 6309ZZ / C3(2P) | 6307ZZ / C3(2P) | 120          | 129     |
| 250              | 350 | 19   | 5   | 42           | 110 | 105 | —     | 12 | 37   | 45   | M16*36  | 6309ZZ / C3(2P) | 6307ZZ / C3(2P) | 140          | 151     |
| 300              | 400 | 19   | 5   | 48           | 110 | 105 | —     | 14 | 42.5 | 51.5 | M16*36  | 6311ZZ C3       | 6310ZZ C3       | 175/180      | 195/200 |
| 300              | 400 | 19   | 5   | 55           | 110 | 105 | —     | 16 | 49   | 59   | M20*42  | 6312ZZ C3       | 6310ZZ C3       | 220          | 227     |
| 350              | 450 | 19   | 5   | 55           | 110 | 105 | —     | 16 | 49   | 59   | M20*42  | 6313ZZ C3       | 6212ZZ C3       | 280/300      | 300/330 |
| 350              | 450 | 19   | 5   | 60           | 140 | 135 | —     | 18 | 53   | 64   | M20*42  | 6313ZZ C3       | 6212ZZ C3       | 280/300      | 300/330 |
| 450              | 550 | 18.5 | 5   | 55           | 110 | 105 | —     | 16 | 49   | 59   | M20*42  | 6315ZZ C3       | 6213ZZ C3       | 390          | 420     |
| 450              | 550 | 18.5 | 5   | 65           | 140 | 135 | —     | 18 | 58   | 69   | M20*42  | 6315ZZ C3       | 6213ZZ C3       | 390          | 420     |
| 450              | 550 | 18.5 | 5   | 55           | 110 | 105 | —     | 16 | 49   | 59   | M20*42  | 6316ZZ C3       | 6313ZZ C3       | 525          | 530     |
| 450              | 550 | 18.5 | 5   | 75           | 140 | 135 | —     | 20 | 67.5 | 79.5 | M20*42  | 6316ZZ C3       | 6313ZZ C3       | 525          | 530     |
| 450              | 550 | 18.5 | 5   | 55           | 110 | 105 | —     | 16 | 49   | 59   | M20*42  | 6316ZZ C3       | 6313ZZ C3       | 560          | 565     |
| 450              | 550 | 18.5 | 5   | 75           | 140 | 135 | —     | 20 | 67.5 | 79.5 | M20*42  | 6316ZZ C3       | 6313ZZ C3       | 560          | 565     |
| 550              | 660 | 24   | 6   | 55           | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 785          | 813     |
| 550              | 660 | 24   | 6   | 85           | 170 | 140 | 165   | 22 | 76   | 90   | —       | 6320ZZ C3       | 6316ZZ C3       | 785          | 813     |
| 550              | 660 | 24   | 6   | 55           | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 850          | 850     |
| 550              | 660 | 24   | 6   | 85           | 170 | 140 | 165   | 22 | 76   | 90   | —       | 6320ZZ C3       | 6316ZZ C3       | 850          | 850     |
| 550              | 660 | 24   | 6   | 55           | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 980          | 1020    |
| 550              | 660 | 24   | 6   | 95           | 170 | 140 | 167.5 | 25 | 86   | 100  | —       | 6320ZZ C3       | 6316ZZ C3       | 980          | 1020    |
| 550              | 660 | 24   | 6   | 55           | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 1030         | 1070    |
| 550              | 660 | 24   | 6   | 95           | 170 | 140 | 167.5 | 25 | 86   | 100  | —       | 6320ZZ C3       | 6316ZZ C3       | 1030         | 1070    |
| 550              | 660 | 24   | 6   | 55           | 110 | 80  | 104   | 16 | 49   | 59   | —       | 6320ZZ C3       | 6316ZZ C3       | 1520         | 1560    |
| 550              | 660 | 24   | 6   | 95           | 170 | 140 | 167.5 | 25 | 86   | 100  | —       | 6320ZZ C3       | 6316ZZ C3       | 1520         | 1560    |

■ 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。(All data is subject to change without prior notification.)

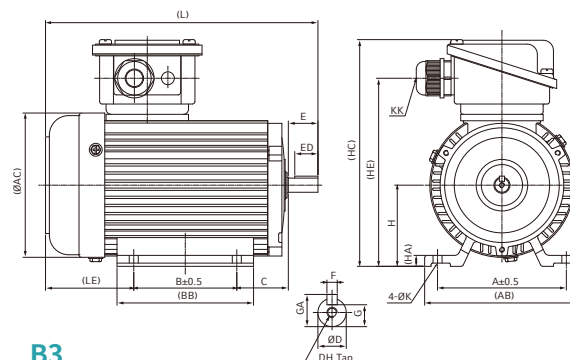
# AM 臥式

AMEF  
IE1

## 輕量型感應電動機

Standard Induction Motor,  
Aluminum Frame,

► Foot Mounted.



B3

| Specification 規格 |          |     |     |           | B3 Dimensions 尺寸 |     |     |     |     |      |     |      |     |       |    |      |       |      | Shaft 出力軸 尺寸 |    |    |    |      |      |         |           |          |     | Wt.重量        |
|------------------|----------|-----|-----|-----------|------------------|-----|-----|-----|-----|------|-----|------|-----|-------|----|------|-------|------|--------------|----|----|----|------|------|---------|-----------|----------|-----|--------------|
| Output(HP)       |          |     |     | Frame No. | A                | AB  | AC  | B   | BB  | C    | H   | HA   | HC  | HE    | K  | KK   | L     | LE   | Shaft End    |    |    |    |      |      |         |           | Bearings |     | Foot mounted |
| 2P               | 4P       | 6P  | 8P  |           |                  |     |     |     |     |      |     |      |     |       |    |      |       |      | D            | E  | ED | F  | G    | GA   | DH      | Load Side | Opposite | IE1 |              |
| 1/8, 1/4         | 1/8, 1/4 | —   | —   | 63        | 100              | 120 | 112 | 80  | 106 | 40   | 63  | 8.5  | 176 | 146   | 7  | MG20 | 211.5 | 68.5 | 11           | 23 | 18 | 4  | 8.5  | 12.5 | M4*10   | 6201ZLU   | 6201ZLU  | 5.5 |              |
| 1/2              | 1/2      | 1/4 | —   | 71        | 112              | 140 | 132 | 90  | 119 | 45   | 71  | 8    | 192 | 162   | 7  | MG20 | 245   | 80   | 14           | 30 | 25 | 5  | 11   | 16   | M5*12.5 | 6202ZLU   | 6202ZLU  | 9   |              |
| 1                | 1        | 1/2 | —   | 80        | 125              | 155 | 156 | 100 | 130 | 49.5 | 80  | 9    | 209 | 179   | 10 | MG20 | 274.5 | 85   | 19           | 40 | 35 | 6  | 15.5 | 21.5 | M6*16   | 6204ZLU   | 6203ZLU  | 12  |              |
| 2, 3             | 2        | 1   | 1/2 | 90L       | 140              | 170 | 175 | 125 | 150 | 56   | 90  | 11   | 230 | 199.5 | 10 | MG20 | 322   | 91   | 24           | 50 | 45 | 8  | 20   | 27   | M8*19   | 6205ZLU   | 6204ZLU  | 18  |              |
| —                | 3        | 2   | 1   | 100L      | 160              | 195 | 192 | 140 | 175 | 63   | 100 | 12.5 | 257 | 220.5 | 12 | PG21 | 360   | 97   | 28           | 60 | 55 | 8  | 24   | 31   | M10*22  | 6206ZLU   | 6205ZLU  | 23  |              |
| 5                | 5        | 3   | 2   | 112M      | 190              | 224 | 219 | 140 | 175 | 70   | 112 | 14   | 282 | 245.5 | 12 | PG21 | 388   | 118  | 28           | 60 | 55 | 8  | 24   | 31   | M10*22  | 6306ZLU   | 6305ZLU  | 31  |              |
| 7.5, 10          | 7.5, 10  | 5   | 3   | 132S      | 216              | 250 | 268 | 140 | 180 | 89   | 132 | 17.5 | 326 | 289   | 13 | Ø35  | 448   | 139  | 38           | 80 | 75 | 10 | 33   | 41   | M12*28  | 6308ZLU   | 6306ZLU  | 50  |              |

- Remark: 1.Tolerance of Shaft End Diameter "D" :Ø11~Ø28: j6 Ø38~Ø48: k6
- 2.Tolerance of Shaft Center Height "H" :+0~-0.5
- 3.IE1 規格為外銷使用。(IE1 Spec. is limited for oversea sales market.)

# AM 立式

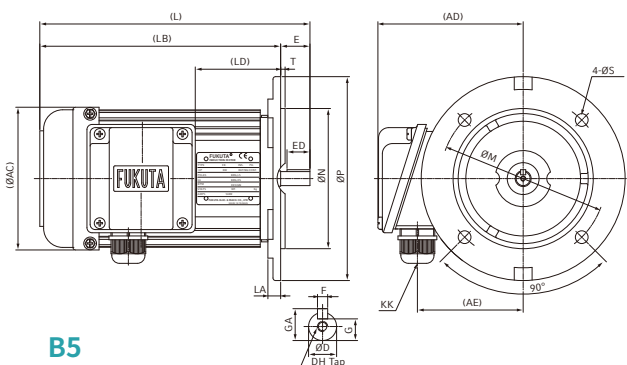
AMVF / AMVB (B14)

IE1

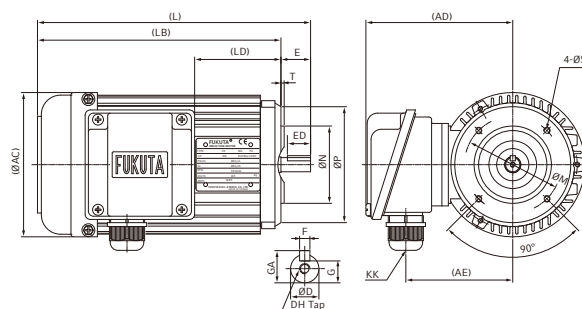
輕量型感應電動機

Standard Induction Motor,  
Aluminum Frame,

► Flange Mounted.



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  |                  | AC  | AD  | AE    | L     | LB    | LD           | LA | M   | N   | P   | S  | T             | M   | N   | P   | S      | T   | Flange mounted |  |
| D           | E  | ED | F  | G    | GA   | DH      | Load Side | Opposite         |     |     |       |       |       |              |    |     |     |     |    |               |     |     |     |        |     | IE1            |  |
| 11          | 23 | 18 | 4  | 8.5  | 12.5 | M4*10   | 6201ZLU   | 6201ZLU          | 112 | 114 | 83    | 212   | 189   | 67           | 10 | 130 | 110 | 160 | 10 | 3.5           | 75  | 60  | 90  | M5*10  | 2.5 | 6              |  |
| 14          | 30 | 25 | 5  | 11   | 16   | M5*12.5 | 6202ZLU   | 6202ZLU          | 133 | 121 | 91    | 245   | 215   | 77           | 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 | 129 | 99    | 274.5 | 234.5 | 85           | 12 | 165 | 130 | 200 | 12 | 3.5           | 100 | 80  | 120 | M6*11  | 3   | 13             |  |
| 24          | 50 | 45 | 8  | 20   | 27   | M8*19   | 6205ZLU   | 6204ZLU          | 175 | 140 | 109.5 | 322   | 272   | 116          | 12 | 165 | 130 | 200 | 12 | 3.5           | 115 | 95  | 140 | M8*15  | 3.5 | 19             |  |
| 28          | 60 | 55 | 8  | 24   | 31   | M10*22  | 6206ZLU   | 6205ZLU          | 192 | 157 | 120.5 | 360   | 300   | 126.5        | 16 | 215 | 180 | 250 | 15 | 3.5           | 130 | 110 | 160 | M8*15  | 3.5 | 25             |  |
| 28          | 60 | 55 | 8  | 24   | 31   | M10*22  | 6306ZLU   | 6305ZLU          | 219 | 170 | 133.5 | 391   | 331   | 142          | 16 | 215 | 180 | 250 | 15 | 4             | 130 | 110 | 160 | M8*15  | 3.5 | 34             |  |
| 38          | 80 | 75 | 10 | 33   | 41   | M12*28  | 6308ZLU   | 6306ZLU          | 268 | 192 | 155   | 448   | 368   | 137.5        | 19 | 265 | 230 | 300 | 15 | 4             | 165 | 130 | 202 | M10*20 | 4   | 55             |  |

- Remark: 1.Tolerance of Shaft End Diameter "D": Ø11~Ø28: j6 Ø38~Ø48: k6  
2.Tolerance of Guidance Diameter "N": h7

# AM 臥式

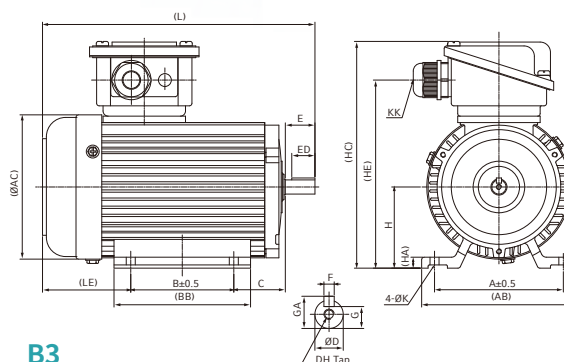
AMEK  
IE3

2P 4P 6P

## 輕量型感應電動機

Standard Induction Motor,  
Aluminum Frame,

► Foot Mounted.



B3

| Specification<br>規格 |              | B3 Dimensions 尺寸 |     |     |     |     |      |     |      |       |       |    |      |       |     | Shaft 出力軸 尺寸 |    |    |    |      |      |        |  |           |          | Wt.重量           |
|---------------------|--------------|------------------|-----|-----|-----|-----|------|-----|------|-------|-------|----|------|-------|-----|--------------|----|----|----|------|------|--------|--|-----------|----------|-----------------|
| Output<br>(HP)      | Frame<br>No. | A                | AB  | AC  | B   | BB  | C    | H   | HA   | HC    | HE    | K  | KK   | L     | LE  | Shaft End    |    |    |    |      |      |        |  | Bearings  |          | Foot<br>mounted |
|                     |              |                  |     |     |     |     |      |     |      |       |       |    |      |       |     | D            | E  | ED | F  | G    | GA   | DH     |  | Load Side | Opposite | IE1             |
| 1                   | 80           | 125              | 155 | 156 | 100 | 130 | 49.5 | 80  | 9    | 209   | 179   | 10 | MG20 | 274.5 | 85  | 19           | 40 | 35 | 6  | 15.5 | 21.5 | M6*16  |  | 6204ZZ    | 6203ZZ   | 13              |
| 2,3                 | 90L          | 140              | 170 | 175 | 125 | 150 | 56   | 90  | 11   | 232.5 | 199.5 | 10 | MG20 | 322   | 91  | 24           | 50 | 45 | 8  | 20   | 27   | M8*19  |  | 6205ZZ    | 6204ZZ   | 20              |
| 5                   | 112M         | 190              | 224 | 219 | 140 | 175 | 70   | 112 | 14   | 282   | 245.5 | 12 | PG21 | 388   | 118 | 28           | 60 | 55 | 8  | 24   | 31   | M10*22 |  | 6306ZZ    | 6305ZZ   | 38              |
| 7.5, 10             | 132S         | 216              | 250 | 268 | 140 | 180 | 89   | 132 | 17.5 | 326   | 289   | 13 | ø35  | 448   | 139 | 38           | 80 | 75 | 10 | 33   | 41   | M12*28 |  | 6308ZZ    | 6306ZZ   | 50              |

| Specification<br>規格 |    |              | B3 Dimensions 尺寸 |     |     |     |    |     |      |       |       |    |      |       |      | Shaft 出力軸 尺寸 |    |    |    |      |      |          |           |                 |     | Wt.重量 |
|---------------------|----|--------------|------------------|-----|-----|-----|----|-----|------|-------|-------|----|------|-------|------|--------------|----|----|----|------|------|----------|-----------|-----------------|-----|-------|
| Output<br>(HP)      |    | Frame<br>No. | A                | AB  | AC  | B   | C  | H   | HA   | HC    | HE    | K  | KK   | L     | LE   | Shaft End    |    |    |    |      |      | Bearings |           | Foot<br>mounted |     |       |
|                     |    |              |                  |     |     |     |    |     |      |       |       |    |      |       |      | D            | E  | ED | F  | G    | GA   | DH       | Load Side | Opposite        | IE3 |       |
| 4P                  | 6P |              |                  |     |     |     |    |     |      |       |       |    |      |       |      |              |    |    |    |      |      |          |           |                 |     |       |
| 1                   | —  | 80           | 125              | 155 | 175 | 100 | 50 | 80  | 8.5  | 222.5 | 189.5 | 10 | MG20 | 277.5 | 87.5 | 19           | 40 | 35 | 6  | 15.5 | 21.5 | M6*16    | 6204ZZ    | 6203ZZ          | 15  |       |
| 2                   | 1  | 90L          | 140              | 180 | 196 | 125 | 56 | 90  | 12   | 250   | 210   | 10 | PG21 | 325   | 94   | 24           | 50 | 45 | 8  | 20   | 27   | M8*19    | 6205ZZ    | 6204ZZ          | 23  |       |
| 3                   | 2  | 100L         | 160              | 196 | 219 | 140 | 63 | 100 | 12.5 | 273   | 233   | 12 | PG21 | 371   | 108  | 28           | 60 | 55 | 8  | 24   | 31   | M10*22   | 6206ZZ    | 6205ZZ          | 28  |       |
| 5                   | 3  | 112M         | 190              | 224 | 234 | 140 | 70 | 112 | 14   | 290.4 | 251   | 12 | PG21 | 390   | 120  | 28           | 60 | 55 | 8  | 24   | 31   | M10*22   | 6306ZZ    | 6305ZZ          | 35  |       |
| 7.5                 | 5  | 132S         | 216              | 250 | 268 | 140 | 89 | 132 | 17.5 | 326   | 289   | 13 | ø35  | 448   | 139  | 38           | 80 | 75 | 10 | 33   | 41   | M12*28   | 6308ZZ    | 6306ZZ          | 57  |       |

- Remark: 1.Tolerance of Shaft End Diameter "D": Ø11~Ø28: j6 Ø38~Ø48: k6  
2.Tolerance of Shaft Center Height "H": +0~-0.5

# AM 立式

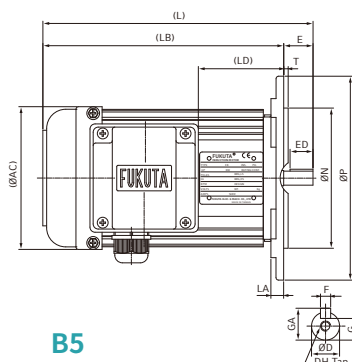
AMVK

IE3

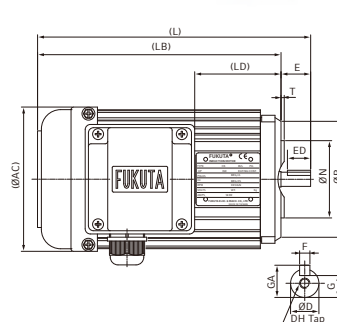
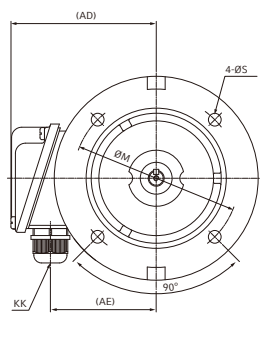
輕量型感應電動機

Standard Induction Motor,  
Aluminum Frame,

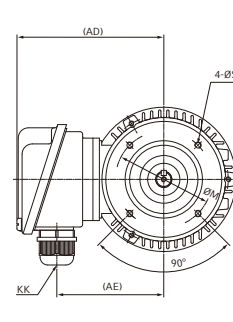
► Flange Mounted.



B5



B14

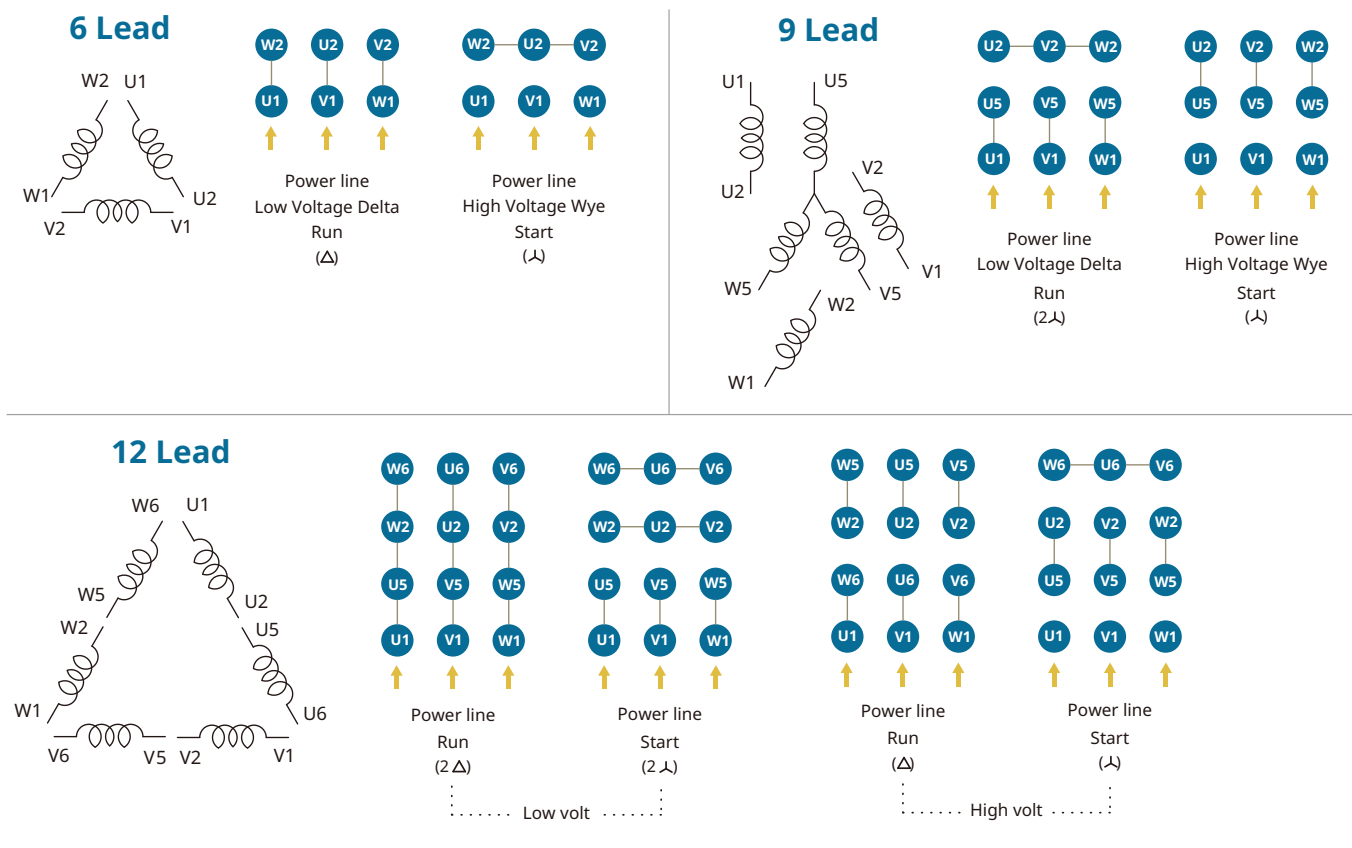


| Shaft 出力軸 尺寸 |    |    |    |      |      |        |              |          |     | B5/B14<br>Flange 尺寸 |       |       | B5 Flange 尺寸 |     |    |     |     |     |    |     |       |       | B14 Flange 尺寸 |     |     |     |        |     |    |                   |  |  | Wt.重量 |  |
|--------------|----|----|----|------|------|--------|--------------|----------|-----|---------------------|-------|-------|--------------|-----|----|-----|-----|-----|----|-----|-------|-------|---------------|-----|-----|-----|--------|-----|----|-------------------|--|--|-------|--|
| Shaft End    |    |    |    |      |      |        | Bearings     |          |     | AC                  | AD    | AE    | L            | LB  | LD | LA  | M   | N   | P  | S   | T     | L     | LB            | LD  | M   | N   | P      | S   | T  | Flange<br>mounted |  |  |       |  |
| D            | E  | ED | F  | G    | GA   | DH     | Load<br>Side | Opposite | IE1 |                     |       |       |              |     |    |     |     |     |    |     |       |       |               |     |     |     |        |     |    |                   |  |  |       |  |
| 19           | 40 | 35 | 6  | 15.5 | 21.5 | M6*16  | 6204ZZ       | 6203ZZ   | 156 | 129                 | 99    | 274.5 | 234.5        | 85  | 12 | 165 | 130 | 200 | 12 | 3.5 | 274.5 | 234.5 | 85            | 100 | 80  | 120 | M6*11  | 3   | 13 |                   |  |  |       |  |
| 24           | 50 | 45 | 8  | 20   | 27   | M8*19  | 6205ZZ       | 6204ZZ   | 175 | 140                 | 109.5 | 322   | 272          | 116 | 12 | 165 | 130 | 200 | 12 | 3.5 | 322   | 272   | 116           | 115 | 95  | 140 | M8*15  | 3.5 | 20 |                   |  |  |       |  |
| 28           | 60 | 55 | 8  | 24   | 31   | M10*22 | 6306ZZ       | 6305ZZ   | 219 | 170                 | 133.5 | 391   | 331          | 142 | 16 | 215 | 180 | 250 | 15 | 4   | 391   | 331   | 142           | 130 | 110 | 160 | M8*15  | 3.5 | 38 |                   |  |  |       |  |
| 38           | 80 | 75 | 10 | 33   | 41   | M12*28 | 6308ZZ       | 6306ZZ   | 268 | 192                 | 155   | 449   | 369          | 137 | 19 | 265 | 230 | 300 | 15 | 4   | 449   | 369   | 137           | 165 | 130 | 202 | M10*20 | 4   | 53 |                   |  |  |       |  |

| Shaft出力軸 尺寸 |    |    |    |      |      |        |              |          |     | B5/B14<br>Flange 尺寸 |       |     | B5 Flange 尺寸 |       |    |     |     |     |    |     |     |     | B14 Flange 尺寸 |     |     |     |        |     |                   |  |  |  | Wt.重量 |  |
|-------------|----|----|----|------|------|--------|--------------|----------|-----|---------------------|-------|-----|--------------|-------|----|-----|-----|-----|----|-----|-----|-----|---------------|-----|-----|-----|--------|-----|-------------------|--|--|--|-------|--|
| Shaft End   |    |    |    |      |      |        | Bearings     |          | AC  | AD                  | AE    | L   | LB           | LD    | LA | M   | N   | P   | S  | T   | L   | LB  | LD            | M   | N   | P   | S      | T   | Flange<br>mounted |  |  |  |       |  |
| D           | E  | ED | F  | G    | GA   | DH     | Load<br>Side | Opposite |     |                     |       |     |              |       |    |     |     |     |    |     |     |     |               |     |     |     |        |     | IE3               |  |  |  |       |  |
| 19          | 40 | 35 | 6  | 15.5 | 21.5 | M6*16  | 6204ZZ       | 6203ZZ   | 175 | 140                 | 109.5 | 275 | 235          | 90    | 12 | 165 | 130 | 200 | 12 | 3.5 | 275 | 235 | 90            | 100 | 80  | 120 | M6*11  | 3   | 16                |  |  |  |       |  |
| 24          | 50 | 45 | 8  | 20   | 27   | M8*19  | 6205ZZ       | 6204ZZ   | 196 | 160                 | 120   | 364 | 314          | 140.5 | 11 | 165 | 130 | 200 | 12 | 3.5 | 325 | 275 | 101.5         | 115 | 95  | 140 | M8*15  | 3.5 | 26                |  |  |  |       |  |
| 28          | 60 | 55 | 8  | 24   | 31   | M10*22 | 6206ZZ       | 6205ZZ   | 219 | 170                 | 133.5 | 374 | 314          | 133   | 16 | 215 | 180 | 250 | 15 | 3.5 | 374 | 314 | 133           | 130 | 110 | 190 | M8*15  | 3.5 | 35                |  |  |  |       |  |
| 28          | 60 | 55 | 8  | 24   | 31   | M10*22 | 6306ZZ       | 6305ZZ   | 234 | 178                 | 139   | 428 | 368          | 182   | 15 | 215 | 180 | 250 | 15 | 4   | 388 | 328 | 142           | 130 | 110 | 200 | M8*15  | 4   | 43                |  |  |  |       |  |
| 38          | 80 | 75 | 10 | 33   | 41   | M12*28 | 6308ZZ       | 6306ZZ   | 268 | 192                 | 155   | 449 | 369          | 137   | 19 | 265 | 230 | 300 | 15 | 4   | 449 | 369 | 137           | 165 | 130 | 202 | M10*20 | 4   | 62                |  |  |  |       |  |

- Remark: 1.Tolerance of Shaft End Diameter "D":  $\varnothing 11 \sim \varnothing 28$ : j6  $\varnothing 38 \sim \varnothing 48$ : k6
- 2.Tolerance of Guidance Diameter "N": h7

## 結線圖 Motor Wiring Diagram



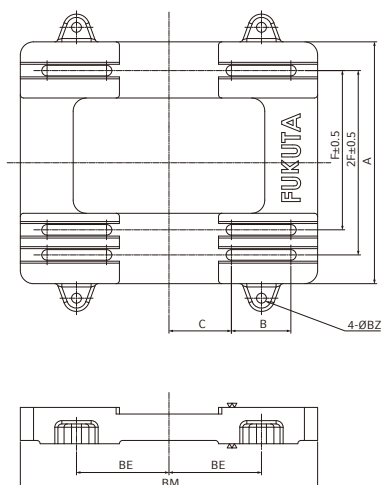
## 馬達編碼原則 Naming Convention



| 1 馬達代號<br>Motor Type                                                                               | 2 馬達樣式<br>Installation method                                                                                                                                                    | 3 標準 / 客製<br>Standard or customized | 4 極數<br>Poles                             | 5 馬力<br>Output                       | 6 頻率<br>Hz   |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------|--------------------------------------|--------------|
| AE:標準型感應電動機<br>Induction Motor Iron-casting Frame<br>AM:輕量型感應電動機<br>Induction Motor Aluminum Frame | VF:立式 IE1 Flange Mount, IE1<br>EF:臥式 IE1 Foot Mount, IE1<br>VK:立式 IE3 Flange Mount, IE3<br>EK:臥式 IE3 Foot Mount, IE3<br>VT:立式 GB3 Flange Mount, GB3<br>ET:臥式 GB3 Foot Mount, GB3 | A:標準 Standard<br>B:客製 Customized    | 2:2 極 Poles<br>4:4 極 Poles<br>6:6 極 Poles | R50:0.5<br>005:5<br>010:10<br>025:25 | 1:50<br>2:60 |

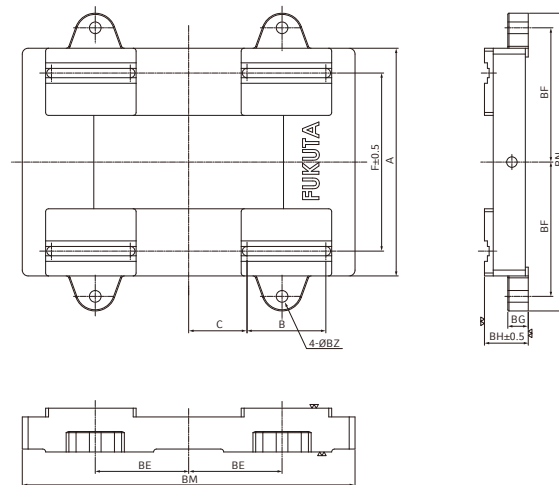
■ 特殊馬達規格，可依客戶需求開發設計，請另洽詢問。(For customized product, please contact us for further inquiries.)

## 馬達底座 - 選配 Motor Bases (Optional)



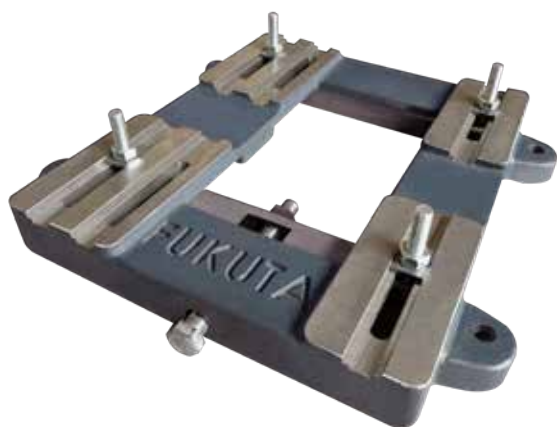
**F#160、F#180**

| FRAME NO.(IEC) | A   | B  | C    | BE  | BF  | BG | BH | BM  | BN  | BZ | F   | 2F  |
|----------------|-----|----|------|-----|-----|----|----|-----|-----|----|-----|-----|
| 160M、L         | 324 | 80 | 87   | 125 | 185 | 25 | 50 | 395 | 410 | 15 | 210 | 254 |
| 180M、L         | 366 | 90 | 94.5 | 140 | 205 | 30 | 55 | 450 | 450 | 15 | 241 | 279 |

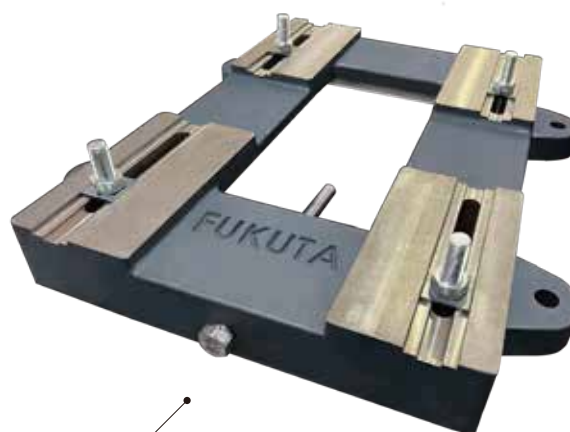


**F#200L**

| FRAME NO.(IEC) | A   | B   | C   | BE  | BF  | BG | BH | BM  | BN  | BZ | F   |
|----------------|-----|-----|-----|-----|-----|----|----|-----|-----|----|-----|
| 200L           | 390 | 135 | 100 | 160 | 230 | 35 | 75 | 570 | 510 | 20 | 305 |



**F#160、F#180**



**F#200L**





**FUKUTA®**

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