

FUKUTA[®] INDUCTION MOTOR

富田 變頻 馬達
變頻專用

IP54 H級 DFEF/DFVF&VFEF/VFVF

富田 標準型 感應電動機
標準型 輕量型

IP54 F級 AEEF/AEVF&AMEF/AMVF/AMVB



三相感應電動機
AEEF/AEVF series
Class F insulation
IP54 protection



變頻馬達
DFEF/DFVF series
Class H insulation
IP54 protection

FUKUTA
INDUCTION MOTOR



變頻專用馬達
VFEF/VFVF series
Class H insulation
IP54 protection



FUKUTA® INDUCTION MOTOR

PRODUCT FEATURES

Compact and convenient for installing,
easy of maintenance.

High accuracy and top quality.

Totally enclosed, sturdy and durable
construction.

Robust and silence construction and an
excellent after-sales service.

新穎美觀 · 保養簡便

精密加工 · 品質信賴

密封結構 · 堅固耐用

強勁安靜 · 服務至上

Specifications

Type:3-phase squirrel cage induction motor (SCIM)

Protecting:IP-54

Mounting method:DFFV/VFFV foot mounted

DFFV/VFFV flange mounted

Cooling method: Forced cooling(IC416)

Poles:4P,6P,8P

Rated output 4P : 1/4~60HP

6P : 1/4~50HP

8P : 1/2~30HP

Input power unit: 3 Phase,220/380/415/440/460V,50/60Hz

Time rating: Continuous rated

Torque control: 60Hz~10Hz constant torque

Starting torque: Rating torque 125%

Insulation class: H class

Environmental conditions

Installation location:Indoor(keeping off the corrosiveness gas
and dirt)

Indicated altitude: Under 1000m height above sea level

Temperature: -15°C~40°C

Humidity: Not over 80%(non-condensing)

Standard turn toward

If counter-clock wise that it turn one's face to motor.

Anti-load connecting method

Direct coupling or belt connect.

Paint

To antirust, primerpaint of phenol spray enamel paint.

Protection

Thermo-switch protection

Select appendix

Feed back signal: P.G. with FUKUTA standard.

1.Power supply voltage: DC 4.75V~30V

2.Current consumption:under 120mA

3.Output signal:Single phase output

4.Input pulse:60~1024PPR(standard pulse rate:600PPR/1024PPR)

5.Pulse indicates more detail for option choice of PPR and
output signal (single or two-phase)

規格

種類 三相鼠籠式感應電動機(SCIM)

保護方式 IP54:全密式

安裝方式 DFF及VFF:水平腳座安裝(IM1001)

DFF及VFF:凸托架安裝(IM3001)

冷卻方式 IC416:送風機強制冷卻

極數 極數180以上:單相50/60Hz 200~240V

極數200以上:三相50/60Hz 200~240V

額定輸出 4P:1/4~60HP,6P:1/4~50HP,8P:1/2~30HP

馬達電壓 3Ø220,380,415,440,460V 50/60Hz

時間額定 連續額定

轉矩特性 60Hz~10Hz:定轉矩

10Hz~6Hz:減速轉矩, 轉矩成正比於轉速平方減減

啟動轉矩 125% 額定轉矩

絕緣等級 H級

使用環境

場所 廠內(避免腐蝕性氣體及多塵埃之處)

標高 海拔1000公尺以下

周溫 -15°C~40°C

濕度 相對濕度80%以下(不得結露)

標準轉向 面向軸端視之,為逆時針方向旋轉

負載連接方式 直接耦合(機性連接器)或皮帶連接式

塗裝 防鏽處理+衝壓脂塗漆+電磁漆(Mouse11.7.59G 4/2)

保護器 熱保護器:常閉型

選擇性附件 回授裝置:P.G.高週振準

(VFF/VFFV Series) 1.電壓電壓:DC4.75V~30V

2.消耗電流:120mA以下

3.輸出信號:單相輸出

4.脈衝數:60~1024PPR(標準品為600PPR/1024PPR)

5.PPR或二相輸出時請選購

熱保護器:常閉型

Character List 特性表

(380V,3ø 60Hz)

Output		Frame No		Full Load Character			Starting Character		Max.Torque		Inertia
HP	KW	RPM	Torque KG-M	Efficiency %	Power Factor %	Current Amp.	Torque %	Current Amp.	%	KG-M ²	
1/4	0.185 (0.2)	2800	63	0.065	61.0	77.0	400	3.5	300	0.002	
		1390	63	0.132	66.0	70.0	280	3.5	250	0.003	
		925	71	0.194	64.0	60.0	200	6	250	0.006	
1/2	0.37 (0.4)	2810	71	0.130	76.0	86.0	340	7.2	290	0.003	
		1390	71	0.259	70.0	75.0	200	7.2	250	0.006	
		930	80	0.385	68.0	67.0	1.3	200	7.2	230	0.009
1	0.75	2820	80	0.257	77.0	87.0	220	11.1	280	0.005	
		1400	80	0.512	76.0	80.0	2.2	200	11.1	280	0.009
		940	90L	0.764	76.0	71.0	2.2	200	11.1	230	0.018
2	1.5	2850	90L	0.510	80.0	89.0	250	23.2	280	0.011	
		1410	90L	1.019	79.0	81.0	3.6	220	23.2	280	0.018
		945	100L	1.528	78.0	74.0	4.1	180	23.2	220	0.033
3	2.2	2860	90L	0.757	82.0	89.0	4.8	250	39.3	280	0.015
		1420	100L	1.514	82.0	82.5	5.2	210	39.3	280	0.033
		950	112M	2.273	82.0	77.0	5.5	180	39.3	230	0.060
5	3.7	2860	112M	1.255	84.5	90.0	7.2	240	63.5	280	0.039
		1440	112M	2.496	85.0	85.0	7.9	220	63.5	280	0.060
		955	132S	3.755	84.0	80.0	8.9	180	63.5	230	0.154
7 1/2	5.5	2890	132S	1.872	85.0	90.0	11.5	220	92.4	280	0.060
		1450	132S	3.733	87.0	84.0	11.8	220	92.4	250	0.107
		960	132M	5.632	85.0	77.5	13.0	200	92.4	230	0.222
10	7.5	2900	132S	2.496	86.5	90.0	14.8	200	115	210	0.078
		1450	132M	4.978	86.5	88.0	14.8	220	115	250	0.146
		970	160M	7.445	87.0	80.0	16.5	200	115	230	0.408
15	11	2910	160M	3.722	88.0	90.0	22.0	200	188	240	0.164
		1480	160M	7.423	90.0	89.0	23.5	220	188	250	0.322
		970	160L	11.167	89.5	84.0	24.0	210	188	230	0.599
20	15	2820	160M	4.949	89.5	91.0	26.5	200	208	240	0.191
		1460	160L	9.898	92.0	89.0	30.1	200	208	280	0.412
		970	180M	14.890	90.0	85.0	30.5	200	208	230	1.007
25	18.5	2920	160L	6.186	90.0	89.5	36.1	200	254	230	0.247
		1485	180M	12.337	91.0	85.5	37.2	210	254	240	0.624
		970	180L	18.612	90.0	84.5	38.8	200	254	230	1.170
30	22	2920	180M	7.423	90.0	90.0	41.7	200	318	240	0.315
		1485	180M	14.808	91.5	88.0	42.3	210	318	240	0.671
		970	180L	22.334	91.0	84.0	44.5	200	318	230	1.385
40	30	2925	180L	9.898	90.5	91.0	55.0	180	358	210	0.373
		1480	180L	19.796	92.0	88.0	56.0	210	358	230	0.829
		970	200L	29.779	91.0	85.0	58.6	180	358	225	1.952
50	37	1480	200L	24.720	92.0	88.0	70.0	200	482	220	1.033
		970	200L	37.224	91.0	85.0	73.3	190	482	225	2.282
		1460	200L	29.694	92.0	89.0	83.0	200	525	215	1.681
60	45	980	225S	44.473	91.5	85.0	87.5	210	625	220	3.052
		1470	225S	37.060	92.5	90.0	102.0	200	725	210	2.308
		980	250S	55.540	92.0	86.0	107.5	220	725	250	5.161
75	55	1475	250S	49.247	92.5	90.5	135.4	190	925	210	3.887
		975	250M	74.440	92.5	88.5	141.7	200	925	220	6.388
		125	90	1475	250M	61.558	93.0	91.0	167.4	190	1245

Note:1.Examination method according to IEC34. 2.The above mentioned value subject to change without notice.

Character List 特性表

(220V,3ø 60Hz)

Output		Frame No		Full Load Character			Starting Character		Max.Torque		Inertia
HP	KW	RPM	Torque KG-M	Efficiency %	Power Factor %	Current Amp.	Torque %	Current Amp.	%	KG-M ²	
1/4	0.185 (0.2)	3335	63	0.054	61.0	77.0	1.0	400	8	300	0.002
		1650	63	0.110	66.0	70.0	1.0	280	6	250	0.003
		1120	71	0.162	64.0	60.0	1.3	200	6	250	0.006
1/2	0.37 (0.4)	3370	71	0.108	75.0	86.0	1.5	340	12	290	0.003
		1680	71	0.216	70.0	75.0	1.5	200	12	250	0.005
		1130	80	0.321	68.0	67.0	2.2	200	12	200	0.009
1	0.75	3395	80	0.214	77.0	87.0	2.9	220	19	280	0.005
		1700	80	0.427	76.0	76.5	3.4	230	19	280	0.009
		1140	90L	0.637	76.0	71.0	3.6	200	19	230	0.018
2	1.5	3415	90L	0.425	80.0	89.0	5.5	250	40	280	0.011
		1710	90L	0.849	81.0	81.0	6.1	220	40	280	0.018
		1140	100L	1.273	78.0	74.0	6.8	180	40	220	0.033
3	2.2	3450	90L	0.631	82.0	89.0	8.0	250	68	280	0.015
		1725	100L	1.262	82.0	82.5	8.7	210	68	260	0.033
		1150	112M	1.894	82.0	77.0	9.3	180	68	230	0.060
5	3.7	3450	112M	1.046	84.5	90.0	12.0	240	110	280	0.035
		1745	112M	2.080	85.0	85.0	13.5	220	110	280	0.060
		1150	132S	3.129	84.0	77.0	15.1	180	110	230	0.154
7 1/2	5.5	3490	132S	1.580	85.0	90.0	19.2	220	180	260	0.060
		1750	132S	3.111	87.0	84.0	20.1	220	160	250	0.107
		1160	132M	4.683	85.0	77.5	22.3	200	160	230	0.222
10	7.5	3490	160M	2.080	86.5	90.0	25.1	200	200	250	0.078
		1750	132M	4.148	88.5	88.0	25.1	220	200	250	0.1



鋁合金立式馬達 (法蘭面切角)
AMVF/B5
Flange Mounted



鋁合金立式馬達 (法蘭面全圖)
AMVF/B5
Flange Mounted



鋁合金立式馬達
AMVB/B14
Flange Mounted



鋁合金臥式馬達
AMEF/B3
Foot Mounted

AMEF/AMVF/AMVB series

Class F insulation F 絕緣等級
IP54 protection IP54等級防護
With aluminium frame
Light-weight design
and good heat
dissipation



Induction Servo Motor



Induction Motor



Inverter Duty Motor



Motor for Inverter Use

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