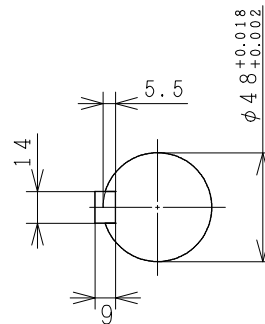
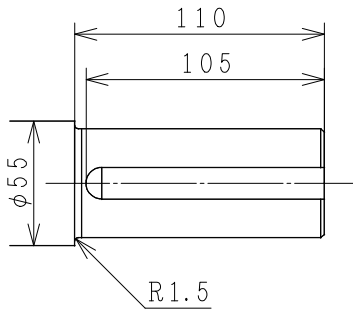
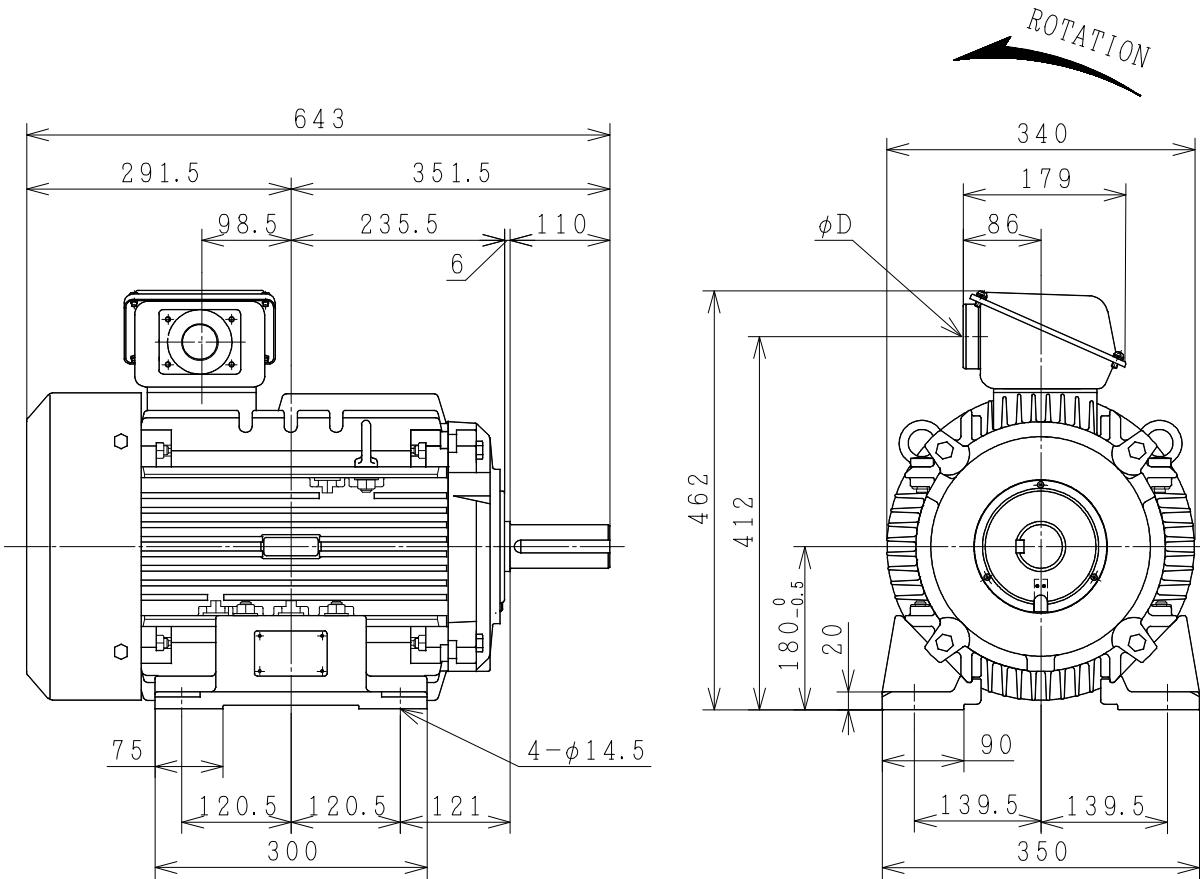


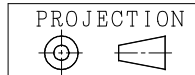
# THREE-PHASE INDUCTION MOTOR

OUTPUT	TYPE	FORM	RATING	VOLTAGE (V)	FREQ. (Hz)	SYNC. SPBBD (min <sup>-1</sup> )	POLES	TH. CLASS	MASS (kg)
30HP	TFO	KK	S1	380/415	50	3000	2	F	115
25HP	TFO	KK	S1	380/415	50	1500	4	F	120
30HP	TFO	KK	S1	380/415	50	1500	4	F	130
20HP	TFO	KK	S1	380/415	50	1000	6	F	135



OUTPUT	POLES	φ D
30HP	2P	PF2
25HP	4P	PF2
30HP	4P	PF2
20HP	6P	PF1½

PROTECTION : IP55



CUSTOMER	QTY.	ORDER No.	WORK No.	REV.
DIMENSIONS	<b>HITACHI</b> Hitachi Industrial Technology (Thailand), Ltd.		HITT WORKS DWG. No. <b>4HTD03374</b>	SH.

FRAME SIZE TFOD-180M (TMHD)



# HITACHI

## MANUFACTURER'S TEST REPORT OF INDUCTION MOTOR

MESSRS		ORDER No	
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### SPECIFICATION FOR MOTOR

OUT PUT(HP)	30	POLES	2	TYPE-FORM	TFO-KK
FREQUENCY(HZ)	50/50	VOLTAGE(V)	380/415	CURRENT(A)	41.0/41.0
PHASES	3	RATING	S1	INSULATION	F
TANDARD	JEC-2137-2000	SECONDARY VOLTAGE(V)	—	SECONDARY CURRENT(A)	—
COOLING	IC411	PROTECTION	IP55	SPEED(min <sup>-1</sup> )	2920/2920

MFG No	FREQUENCY (HZ)	NO-LOAD TEST			LOCKED ROTOR TEST		
		VOLTAGE(V)	CURRENT(A)	INPUT(W)	VOLTAGE(V)	CURRENT(A)	INPUT(W)
	50	380	13.41	1020.0	53.0	40.0	1810.0
	50	415	19.45	1360.0	53.0	40.0	1810.0

(3) WINDINGS RESISTANCE (BETWEEN LINES) STATOR 115°C 0.35000(Ω)

#### (4) LOAD CHARACTERISTICS

LOAD(%)	CURRENT(A)	EFFICIENCY(%)	POWERFACTOR(%)	SLIP(%)
25	16.82/21.67	83.2/79.0	59.7/44.6	0.3/0.3
50	23.55/26.56	89.4/87.1	79.4/66.0	0.7/0.6
75	31.80/33.12	90.9/89.5	86.7/77.2	1.0/0.8
100	40.95/40.73	91.0/90.3	89.7/83.0	1.4/1.1
125	50.85/89.11	90.6/90.3	90.7/86.1	1.7/1.5

(5) MAXIMUM OUT PUT(%) STARTING CURRENT(A) STARTING TORQUE(%)

279/327 319.5/351.0 279/341

#### (6) TEMPERATURE RISE TEST (R)-RESISTANCE METHOD

STATOR WINDINGS(K)	FRAME(K)	ROTOR WINDINGS(K)
56.5/56.5 (R)	27.5/27.5	

(7) INSULATION RESISTANCE BY 500V MEGGER

100MΩ

(8) WITHSTAND STATOR WINDINGS TO CORE

1900V 1MIN WITHSTOOD

VOLTAGE TEST ROTOR WINDINGS TO CORE

— V 1MIN WITHSTOOD

(9) CONSTRUCTION, DIMENSION, PAINTING, OTHER PARTS

SATISFACTORY

HITACHI INDUSTRIAL TECHNOLOGY (THAILAND) LTD.	CHECKED BY	T.SHIMOZONO
	DATE	9-JUNE-2015

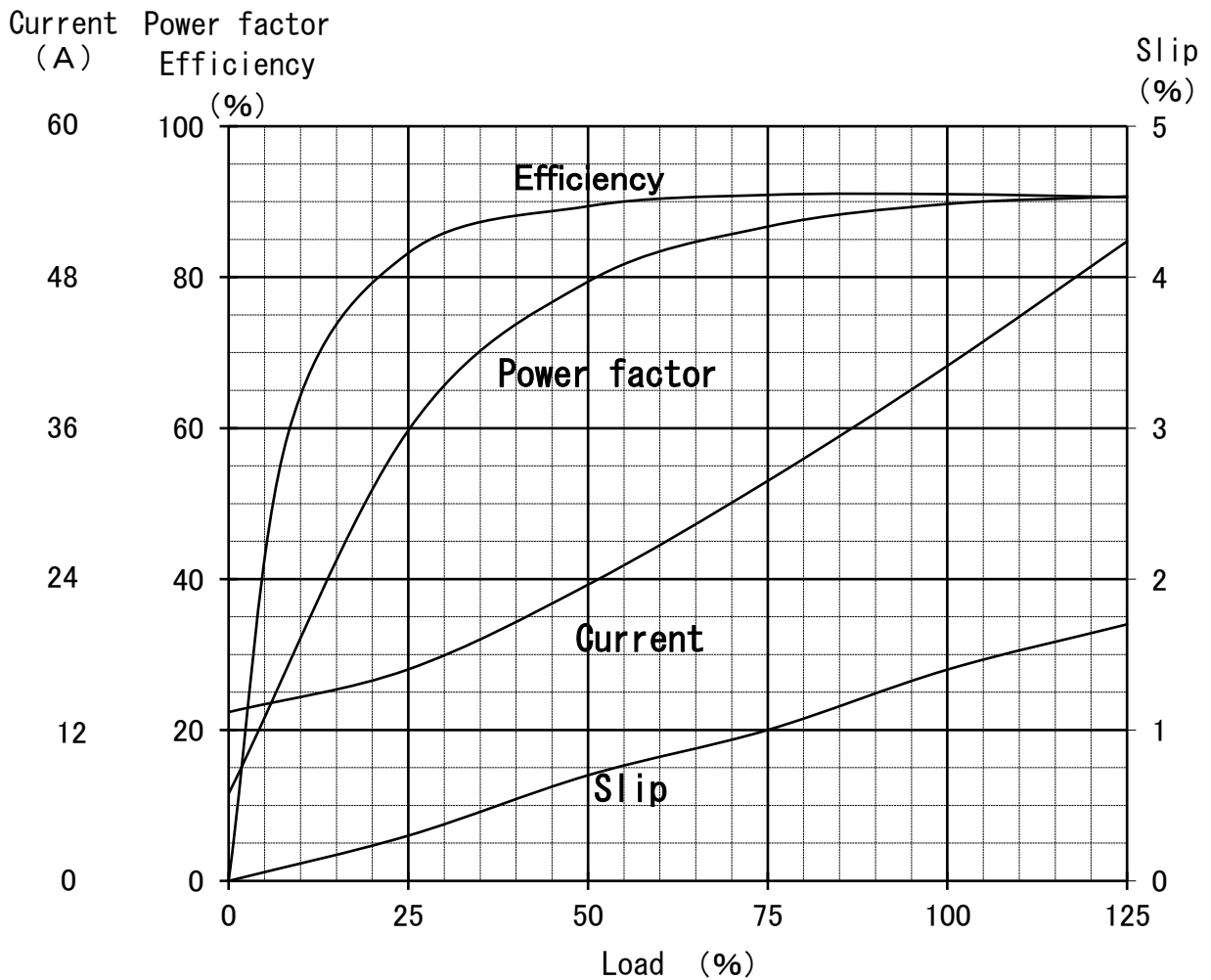
REP.No. RP10075

## Three Phase Induction Motor Characteristic Curve

Hitachi Industrial Technology(Thailand),Ltd

Power (HP)	30
Pole	2
Type-Form	TFO-KK,VTFO-KK
Voltage (V)	380
Frequency (Hz)	50
Protection	IP44,IP55

Load (%)	0	25	50	75	100	125
Current(A)	13.42	16.82	23.55	31.80	40.95	50.85
Efficiency(%)	0	83.2	89.4	90.9	91.0	90.6
Power factor(%)	11.5	59.7	79.4	86.7	89.7	90.7
Slip (%)	0	0.3	0.7	1.0	1.4	1.7



# Speed-Torque, Current Curve

30HP (V) TF0-KK 2P  
380/415V 50Hz  
IP44/IP55

