

HITACHI

MANUFACTURER'S TEST REPORT OF INDUCTION MOTOR

MESSRS		ORDER No	
--------	--	----------	--

SPECIFICATION FOR MOTOR

OUT PUT(HP)	75	POLES	4	TYPE-FORM	VTFO-KK
FREQUENCY(HZ)	50/50	VOLTAGE(V)	380/415	CURRENT(A)	108/109
PHASES	3	RATING	S1	INSULATION	F
STANDARD	JEC-2137-2000	SECONDARY VOLTAGE(V)	—	SECONDARY CURRENT(A)	—
COOLING	IC411	PROTECTION	IP55	SPEED(min ⁻¹)	1460/1460

MFG No	FREQUENCY (HZ)	(1)NO-LOAD TEST			(2)LOCKED ROTOR TEST		
		VOLTAGE(V)	CURRENT(A)	INPUT(W)	VOLTAGE(V)	CURRENT(A)	INPUT(W)
	50	380	37.50	1700.0	81.0	100.0	4550.0
	50	415	55.00	2250.0	81.0	100.0	4550.0

(3)WINDINGS RESISTANCE (BETWEEN LINES) STATOR 115°C 0.02893 (Ω)

(4)LOAD CHARACTERISTICS

LOAD(%)	CURRENT(A)	EFFICIENCY(%)	POWER FACTOR(%)	SLIP(%)
25	45.04/59.79	87.7/84.3	52.9/37.8	0.4/0.3
50	61.62/71.62	91.9/90.2	73.8/59.1	0.7/0.7
75	82.90/88.31	92.6/91.6	81.7/70.8	1.2/1.0
100	107.40/108.43	92.2/91.8	84.4/76.7	1.6/1.4
125	135.30/131.52	91.2/91.3	84.6/79.5	2.2/1.8

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

212/245 691.0/772.0 262/331

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

STATOR WINDINGS(K)	FRAME(K)	ROTOR WINDINGS(K)
84.5/86.5 (R)	55.0/56.5	—

(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

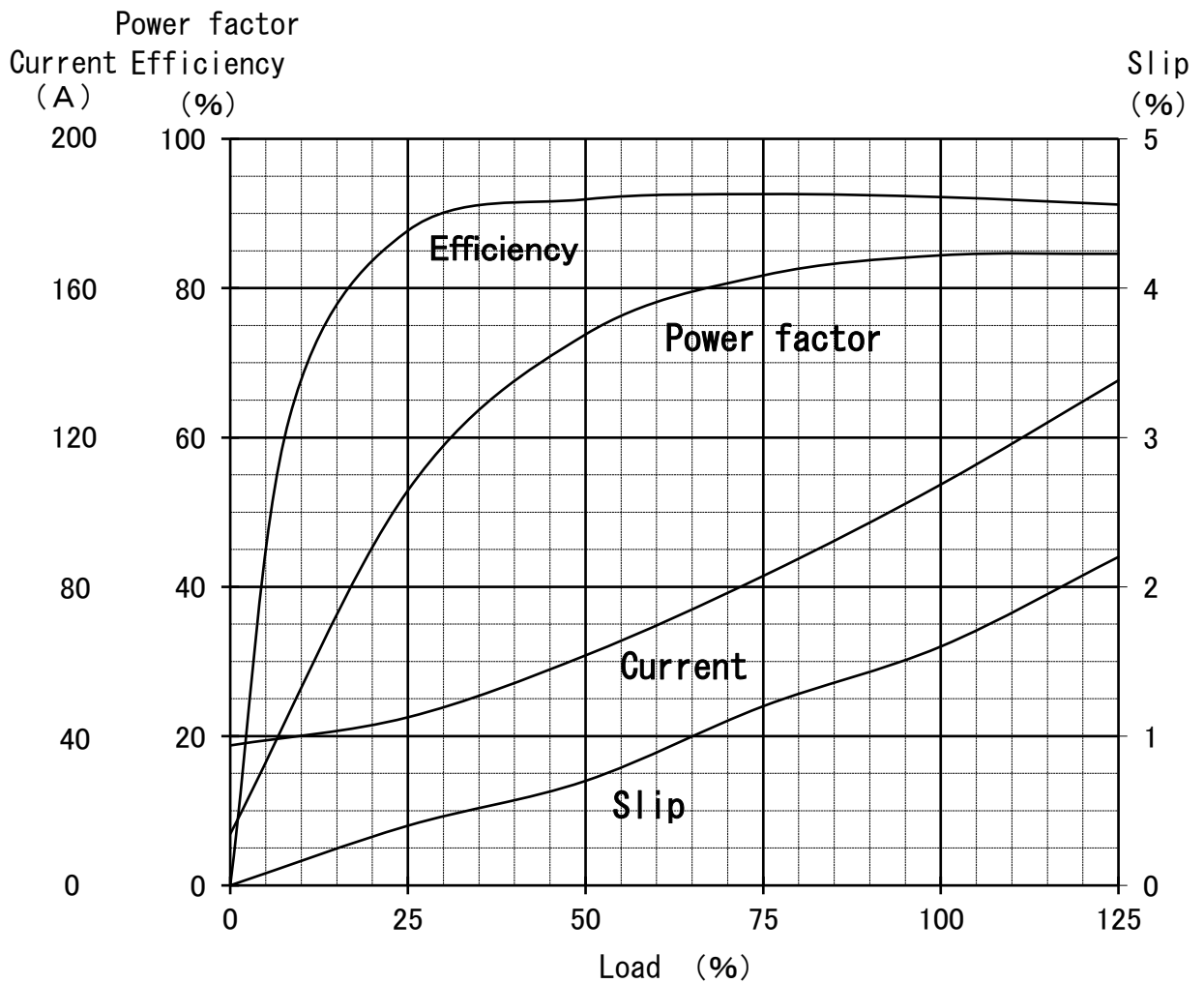
HITACHI INDUSTRIAL TECHNOLOGY (THAILAND) LTD.	CHECKED BY	T.SHIMOZONO
	DATE	09-JUNE-2015

Three Phase Induction Motor Characteristic Curve

Hitachi Industrial Technology(Thailand),Ltd

Power (HP)	75
Pole	4
Type-Form	TFO-KK, VTFO-KK
Voltage (V)	380
Frequency (Hz)	50
Protection	IP44, IP55

Load (%)	0	25	50	75	100	125
Current (A)	37.50	45.04	61.62	82.90	107.40	135.30
Efficiency (%)	0	87.7	91.9	92.6	92.2	91.2
Power factor (%)	6.9	52.9	73.8	81.7	84.4	84.6
Slip (%)	0	0.4	0.7	1.2	1.6	2.2



Speed-Torque, Current Curve

75HP (V) TF0-KK 4P
380/415V 50Hz
IP44/IP55

