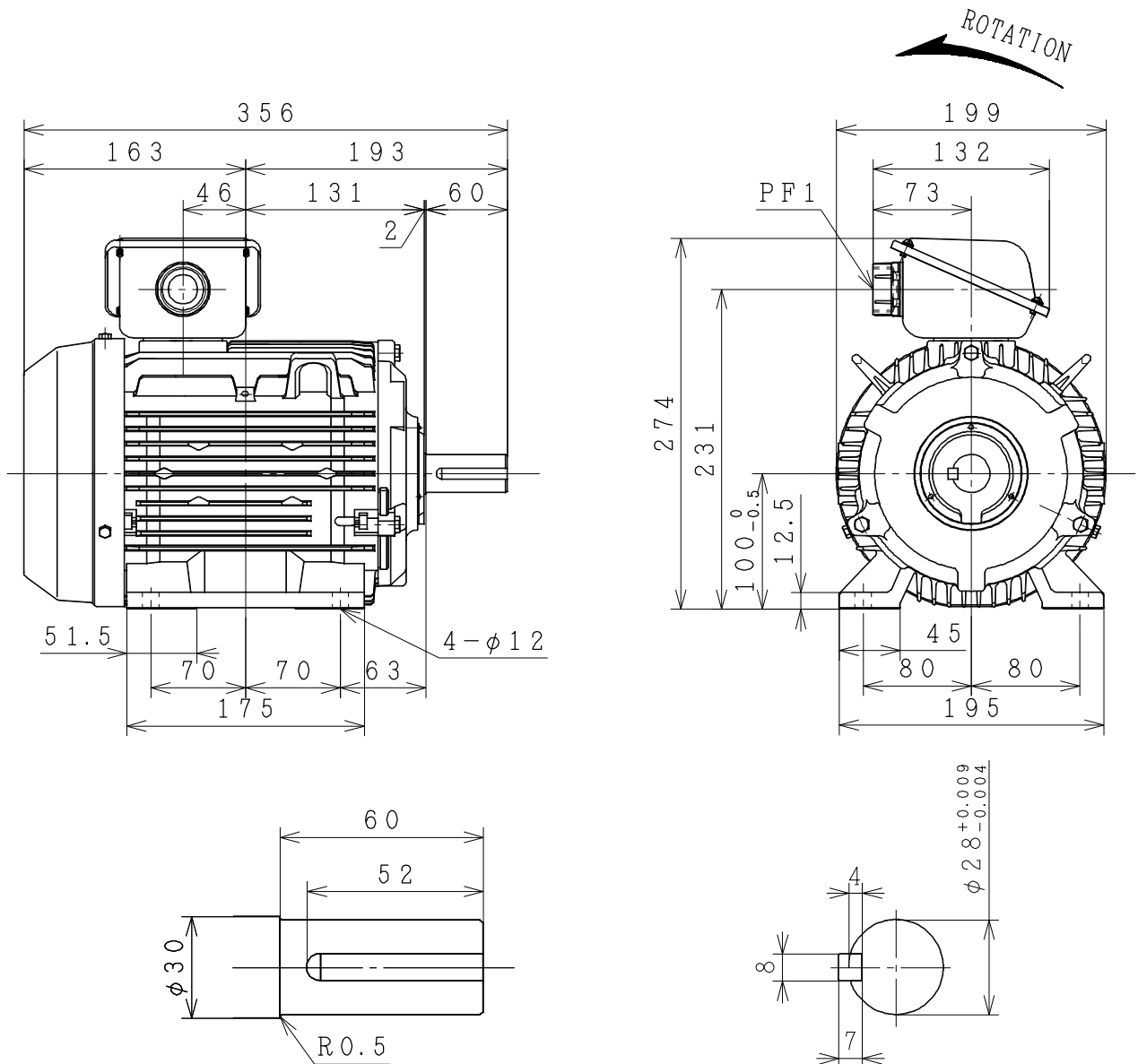


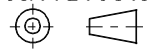
THREE-PHASE INDUCTION MOTOR

OUTPUT	TYPE	FORM	RATING	VOLTAGE (V)	FREQ. (Hz)	SYNC. SPEED (min ⁻¹)	POLES	TH. CLASS	MASS (kg)
3HP	TFO	K	S1	220/380	50	1500	4	F	21
2HP	TFO	K	S1	220/380	50	1000	6	F	23



PROTECTION : IP55

PROJECTION

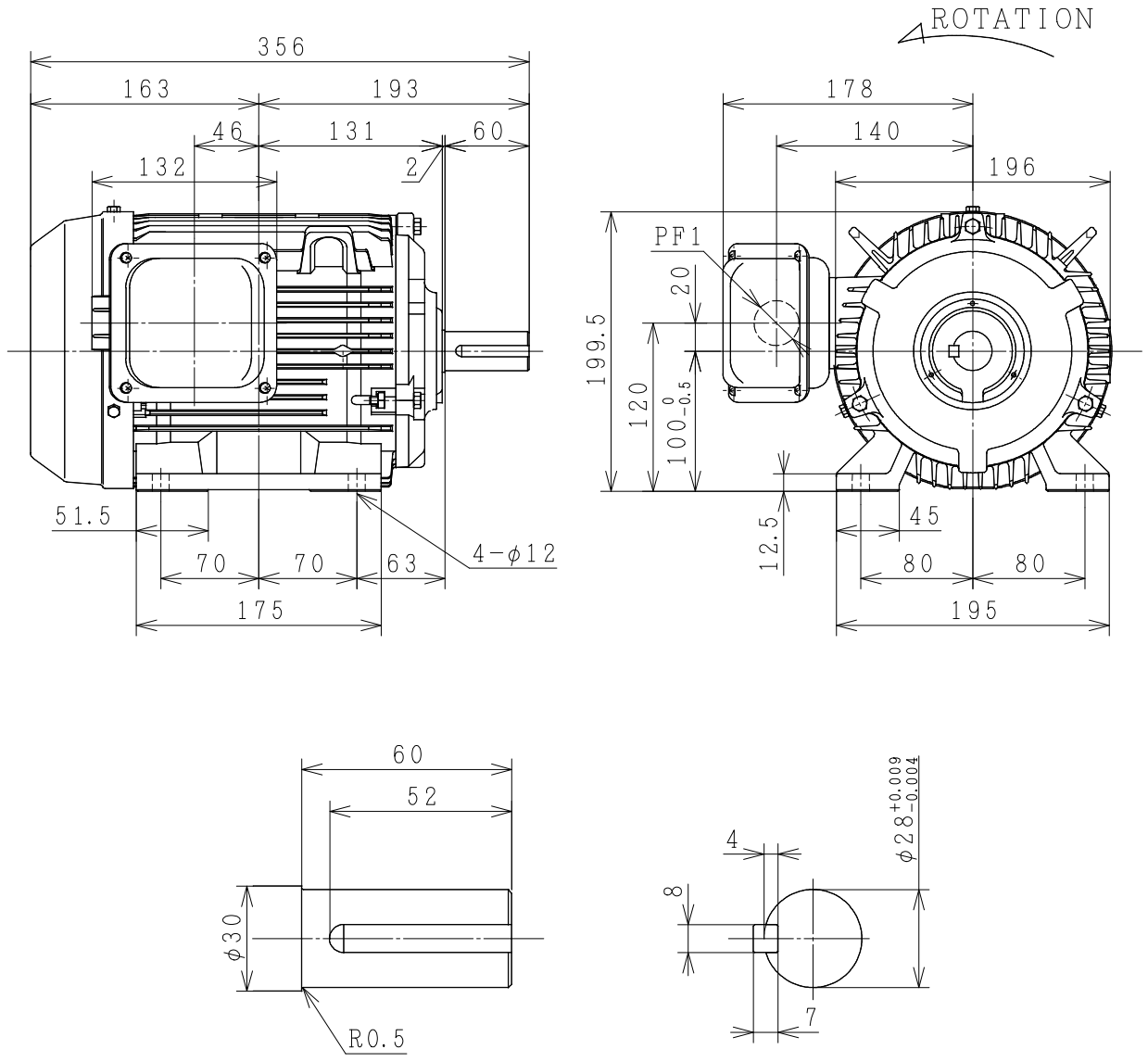


CUSTOMER	QTY.	ORDER No.	WORK No.	REV.
DIMENSIONS	HITACHI Hitachi Industrial Technology (Thailand), Ltd.		HITT WORKS DWG. No.	SH.
			4HTD03362	

FRAME SIZE TFOD-100L (TMHD)

THREE-PHASE INDUCTION MOTOR

OUTPUT	TYPE	FORM	RATING	VOLTAGE (V)	FREQ. (Hz)	SYNC. SPEED (min ⁻¹)	POLES	INS. CLASS	MASS (kg)
3HP	TFO	K	S1	220/380	50	1500	4	F	21
2HP	TFO	K	S1	220/380	50	1000	6	F	23



PROJECTION

CUSTOMER			QTY.	ORDER No.	WORK No.	REV.
DWN.	P. Tianchai	21-JUNE-2015	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="font-size: 2em; font-weight: bold;">DIMENSIONS</div> <div style="text-align: center;"> HITACHI <small>Hitachi Industrial Technology (Thailand), Ltd.</small> </div> <div style="font-size: 1.5em; font-weight: bold;">4HTD02377</div> </div>			SH.
CHKD.	W. Thawat	}				
APPD.	T. Shimozone					
FRAME SIZE			TFOD-100L (TMLR)			

HITACHI

MANUFACTURER'S TEST REPORT OF INDUCTION MOTOR

MESSRS		ORDER No	
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SPECIFICATION FOR MOTOR

OUT PUT(HP)	3	POLES	4	TYPE-FORM	TFO-K
FREQUENCY(HZ)	50/50	VOLTAGE(V)	220/380	CURRENT(A)	9.1/5.2
PHASES	3	RATING	S1	INSULATION	B
STANDARD	JEC-2137-2000	SECONDARY VOLTAGE(V)	—	SECONDARY CURRENT(A)	—
COOLING	IC411	PROTECTION	IP55	SPEED(min ⁻¹)	1400/1400

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	220	4.77	195.0	53.1	9.0	445.0
	50	380	2.57	165.0	82.4	4.5	340.0

(3)WINDINGS RESISTANCE (BETWEEN LINES) STATOR 115°C 2.60556/7.80460(Ω)

(4)LOAD CHARACTERISTICS

LOAD(%)	CURRENT(A)	EFFICIENCY(%)	POWER FACTOR(%)	SLIP(%)
25	5.08/2.75	70.1/73.1	40.6/41.5	1.5/1.5
50	5.94/3.28	78.8/80.5	61.7/63.3	3.1/3.2
75	7.29/4.09	79.8/80.9	74.4/75.8	4.9/5.2
100	9.09/5.17	78.1/78.6	81.3/82.3	7.1/7.5
125	11.45/6.59	74.3/74.3	84.8/85.3	10.0/10.7

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

162/157 51.2/29.6 217/217

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

STATOR WINDINGS(K)	FRAME(K)	ROTOR WINDINGS(K)
76.0/76.0 (R)	38.0/38.0	—

(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	25-MAY-2015

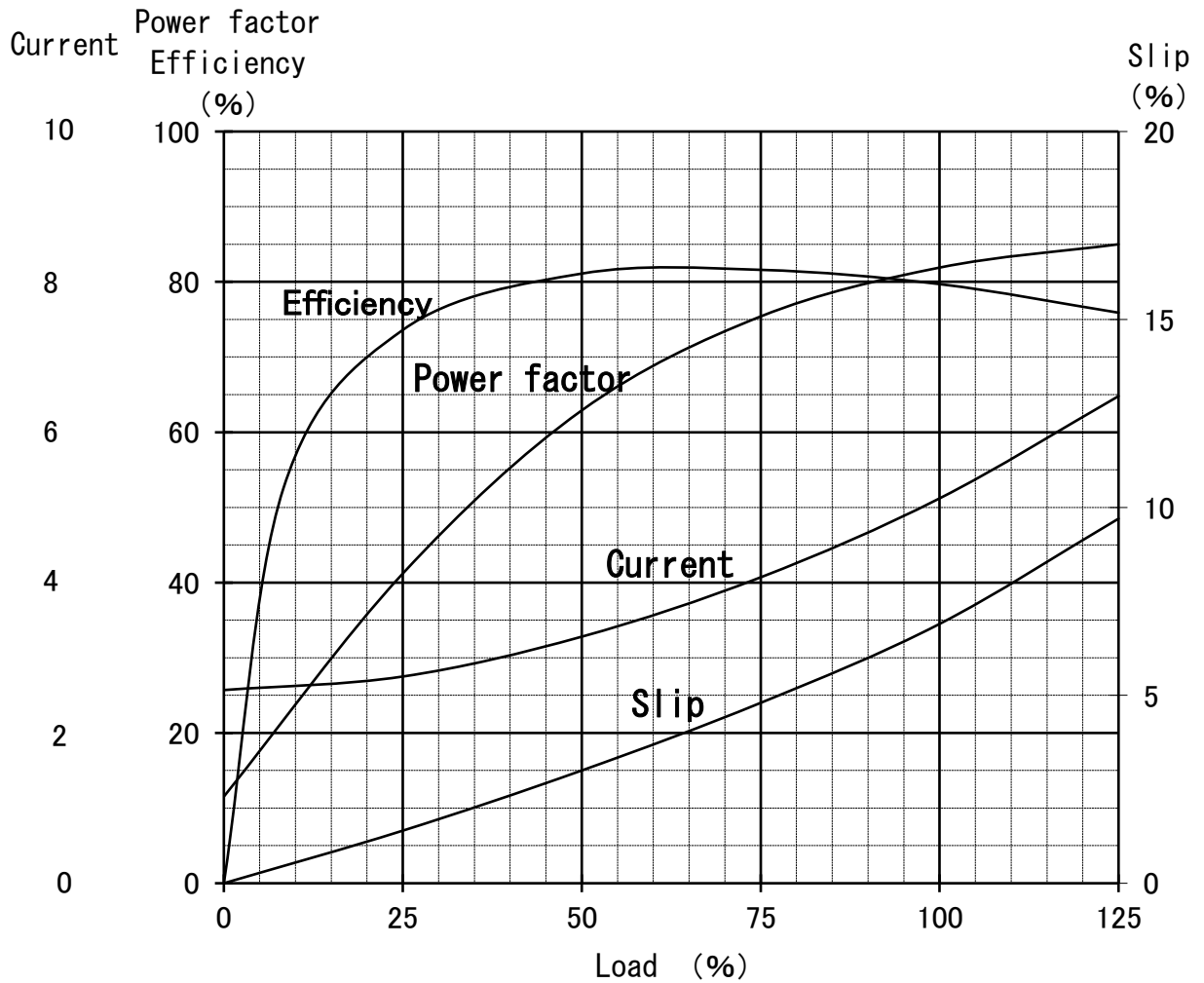
REP.No.RP20298

Three Phase Induction Motor Characteristic Curve

Hitachi Industrial Technology(Thailand),Ltd

Power (HP) 3
 Pole 4
 Type-Form TFO-K , VTFO-K
 Voltage (V) 380
 Frequency (Hz) 50
 Protection IP44 , IP55

Load (%)	0	25	50	75	100	125
Current(A)	2.57	2.75	3.28	4.07	5.12	6.48
Efficiency(%)	0	73.6	81.1	81.6	79.7	75.9
Power factor(%)	11.5	41.2	62.9	75.4	81.9	85.0
Slip (%)	0	1.4	3.0	4.8	6.9	9.7



Speed-Torque, Current Curve

3HP (V) TF0-K 4P
220/380V 50Hz
IP44/IP55

