

HITACHI

MANUFACTURER'S TEST REPORT OF INDUCTION MOTOR

MESSRS		ORDER No	
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SPECIFICATION FOR MOTOR

OUT PUT(HP)	20	POLES	4	TYPE-FORM	VTFO-HKK
FREQUENCY(Hz)	50/50	VOLTAGE(V)	380/415	CURRENT(A)	29.0/29.0
PHASES	3	RATING	S1	INSULATION	B
STANDARD	JEC-2137-2000	SECONDARY VOLTAGE(V)	—	SECONDARY CURRENT(A)	—
COOLING	IC411	PROTECTION	IP44	SPEED(min ⁻¹)	1450/1455

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	9.96	348.0	70.2	28.0	1398.1
	50	415	13.75	538.0	70.2	28.0	1398.1

(3)WINDINGS RESISTANCE (BETWEEN LINES) STATOR 75°C 0.55067(Ω)

(4)LOAD CHARACTERISTICS

LOAD(%)	CURRENT(A)	EFFICIENCY(%)	POWER FACTOR(%)	SLIP(%)
25	11.64/17.74	89.6/85.5	54.6/41.4	0.6/0.6
50	16.35/18.34	92.2/90.2	75.6/63.1	1.3/1.1
75	22.26/23.09	91.7/90.7	83.7/74.7	2.3/1.9
100	28.87/28.59	90.6/90.2	87.1/80.9	3.0/2.6
125	36.07/34.64	89.0/89.2	88.7/84.4	3.7/3.1

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

256/298 218.5/239.0 296/353

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

STATOR WINDINGS(K)	FRAME(K)	ROTOR WINDINGS(K)
61.0/61.0 (R)	43.5/43.5	—

(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	14-OCT-2015

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