TECO Westinghouse

ISSUED	PERFORMANCE DATA	ENCLOSURE
8/15/2014	3-PHASE INDUCTION MOTOR	TEFC
TYPE		CATALOG#
AEHH8N		EP1/54

NAMEPLATE INFORMATION

OUTPUT HP	OUTPUT KW	POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
1.5	1.1	4	145T	230/460	60	40°C	F	B	CONT.	1.15

VARIABLE FREQUENCY DRIVE SERVICE

VARIABLE TORQUE			
HZ	HP	RPM	TORQUE (lb-ft)
3~60	0.0002~1.5	90~1800	0.011~4.552

OHMS/PHASE EQUIVALENT WYE CIRCUIT (AT RATED OPERATING TEMPERATURE 25°C)				
R1	R2	X1	X2	X_m
5.763	5.3809	13.911	8.6689	209.64

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
6~60	.15~1.5	180~1800	4.552	60~120	1.5	1800~3600	4.552~2.276

TYPICAL PERFORMANCE

FULL LOAD RPM	EFFICIENCY FULL LOAD MIN.%	EFFICIENCY FULL LOAD NOM.%	EFFICIENCY 3/4 LOAD %	EFFICIENCY 1/2 LOAD %	POWER FACTOR FULL LOAD %	POWER FACTOR 3/4 LOAD %	POWER FACTOR 1/2 LOAD %	SOUND PRESSURE LEVEL @ 3 FT Db(A)
1730	84	86.5	86.5	85.5	78	70	57	50

CURRENTS NO LOAD AT 208 VOLT	NO LOAD AT 230 VOLT	NO LOAD AT 460 VOLT	FULL LOAD AT 208 VOLT	FULL LOAD AT 230 VOLT	FULL LOAD AT 460 VOLT	LOCKED ROTOR AT 208 VOLT	LOCKED ROTOR AT 230 VOLT	LOCKED ROTOR AT 460 VOLT	NEMA KVA CODE LETTER	SAFE STALL TIME IN SECONDS COLD	SAFE STALL TIME IN SECONDS HOT
1.95	2.22	1.11	4.60	4.16	2.08	36.2	40.0	20	M	57	40

TORQUE FULL LOAD (lb-ft)	TORQUE LOCKED ROTOR %FLT	TORQUE PULL UP %FLT	TORQUE BREAK DOWN %FLT	INERTIA ROTOR WR^2 ($lb\text{-}ft^2$)	INERTIA NEMA LOAD WK^2 ($lb\text{-}ft^2$)	INERTIA MAX ALLOWABLE WK^2 ($lb\text{-}ft^2$)	ACCEL TIME (DOL) NEMA LOAD WK^2 Sec	ACCEL TIME (DOL) MAX ALLOWABLE WK^2 Sec	ALLOWABLE STARTS PER HOUR COLD	ALLOWABLE STARTS PER HOUR HOT
4.55	300	260	360	0.093	8.6	47	3.62	19.59	2	1

APPROVED:	M. PRATER	DRAWING NO.	31057EP1/54	REVISION:	1