

TECO Westinghouse

| | | |
|----------------------------|---|---------------------------|
| ISSUED 8/29/2014 | PERFORMANCE DATA 3-PHASE INDUCTION MOTOR | ENCLOSURE TEFC |
| TYPE AEHH8P | | CATALOG# NP7/52 |

NAMEPLATE INFORMATION

| OUTPUT HP | OUTPUT KW | POLE | FRAME SIZE | VOLTAGE | HZ | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING | SERVICE FACTOR |
|--------------|--------------|----------|---------------|----------------|-----------|------------------|---------------|----------------|----------------|-------------------|
| 7.5 | 5.6 | 2 | 213T | 230/460 | 60 | 40°C | F | B | CONT. | 1.15 |

VARIABLE FREQUENCY DRIVE SERVICE

| | | | | | | | | |
|-----------------|------------------|-----------------|--------------------|--|---------------|---------------|---------------|----------------|
| VARIABLE TORQUE | | | | OHMS/PHASE EQUIVALENT WYE CIRCUIT (AT RATED OPERATING TEMPERATURE 25°C) | | | | |
| HZ | HP | RPM | TORQUE (lb-ft) | R1 | R2 | X1 | X2 | X _m |
| 3~60 | 0.001~7.5 | 180~3600 | 0.029~11.22 | 0.4946 | 0.7508 | 2.2045 | 4.2561 | 101.99 |

| CONSTANT TORQUE | | | | CONSTANT HORSEPOWER | | | |
|-----------------|----------------|-----------------|-------------------|---------------------|------------|------------------|--------------------|
| HZ | HP | RPM | TORQUE (lb-ft) | HZ | HP | RPM | TORQUE (lb-ft) |
| 6~60 | .75~7.5 | 360~3600 | 11.22 | 60~90 | 7.5 | 3600~5400 | 11.22~7.480 |

TYPICAL PERFORMANCE

| FULL LOAD RPM | EFFICIENCY | | | | POWER FACTOR | | | SOUND PRESSURE LEVEL @ 3 FT Db(A) |
|---------------------|-------------|-----------|---------------|---------------|----------------|---------------|---------------|--|
| | FULL LOAD | | 3/4 LOAD % | 1/2 LOAD % | FULL LOAD % | 3/4 LOAD % | 1/2 LOAD % | |
| | MIN.% | NOM.% | | | | | | |
| 3510 | 89.5 | 91 | 91 | 90.2 | 89 | 87 | 80 | 70 |

| CURRENTS | | | | | | | | | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------------|-----------|
| NO LOAD | | | FULL LOAD | | | LOCKED ROTOR | | | | COLD | HOT |
| AT 208 VOLT | AT 230 VOLT | AT 460 VOLT | AT 208 VOLT | AT 230 VOLT | AT 460 VOLT | AT 208 VOLT | AT 230 VOLT | AT 460 VOLT | | | |
| 4.72 | 5.10 | 2.55 | 19.13 | 17.30 | 8.67 | 115.8 | 128.0 | 64 | H | 17 | 12 |

| TORQUE | | | | INERTIA | | | ACCEL TIME (DOL) | | ALLOWABLE STARTS PER HOUR | |
|-------------------------|-------------------------|--------------------|-----------------------|---|--|--|--|--|---------------------------------|----------|
| FULL LOAD (lb-ft) | LOCKED ROTOR %FLT | PULL UP %FLT | BREAK DOWN %FLT | ROTOR WR ² (lb-ft ²) | NEMA LOAD WK ² (lb-ft ²) | MAX ALLOWABLE WK ² (lb-ft ²) | NEMA LOAD WK ² Sec | MAX ALLOWABLE WK ² Sec | COLD | HOT |
| 11.22 | 200 | 175 | 275 | 0.448 | 8.3 | 19 | 4.02 | 8.94 | 2 | 1 |

| | | | | | |
|-----------|------------------|-------------|--------------------|-----------|----------|
| APPROVED: | M. PRATER | DRAWING NO. | 31057NP7/52 | REVISION: | 1 |
|-----------|------------------|-------------|--------------------|-----------|----------|