

TECO Westinghouse

| | | |
|----------------------------|---|---------------------------|
| ISSUED 8/29/2014 | PERFORMANCE DATA 3-PHASE INDUCTION MOTOR | ENCLOSURE TEFC |
| TYPE AEHH | | CATALOG# HH0506 |

NAMEPLATE INFORMATION

| OUTPUT | | POLE | FRAME SIZE | VOLTAGE | HZ | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING | SERVICE FACTOR |
|-----------|-------------|----------|-------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP | KW | | | | | | | | | |
| 50 | 37.3 | 6 | 365T | 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 | 0.0063~50 | 60~1200 | 0.551~222.5 | 0.0502 | 0.1436 | 0.3901 | 0.6604 | 12.317 |

| CONSTANT TORQUE | | | | CONSTANT HORSEPOWER | | | |
|-----------------|-------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ | HP | RPM | TORQUE (lb-ft) | HZ | HP | RPM | TORQUE (lb-ft) |
| 6~60 | 5~50 | 120~1200 | 222.5 | 60~90 | 50 | 1200~1800 | 222.5~148.3 |

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.% | | | | | | |
| 1180 | 93 | 94.1 | 94.5 | 93.6 | 86 | 83 | 75.5 | 75 |

| CURRENTS | | | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS | |
|-------------|--------------|--------------|----------------------|----------------------------|-----------|
| NO LOAD | FULL LOAD | LOCKED ROTOR | | COLD | HOT |
| AT 460 VOLT | AT 460 VOLT | AT 460 VOLT | | | |
| 20.9 | 57.80 | 363 | G | 29 | 20 |

| 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 |
| 222.50 | 225 | 170 | 240 | 21.39 | 620 | 1385 | 5.22 | 11.44 | 2 | 1 |

| | | | | | |
|-----------|------------------|-------------|--------------------|-----------|----------|
| APPROVED: | M. PRATER | DRAWING NO. | 31057HH0506 | REVISION: | 1 |
|-----------|------------------|-------------|--------------------|-----------|----------|