

TECO Westinghouse

| | | |
|-----------------------------|---|----------------------------|
| ISSUED 12/27/2013 | PERFORMANCE DATA 3-PHASE INDUCTION MOTOR | ENCLOSURE TEFC |
| TYPE AEHH8N | | CATALOG# EP1004S |

NAMEPLATE INFORMATION

| OUTPUT | | POLE | FRAME SIZE | VOLTAGE | HZ | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING | SERVICE FACTOR |
|------------|-------------|----------|--------------|----------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP | KW | | | | | | | | | |
| 100 | 74.6 | 4 | 405TS | 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 | 0.0125~100 | 90~1800 | 0.729~295.8 | 0.0262 | 0.0741 | 0.1669 | 0.3738 | 10.277 |

| CONSTANT TORQUE | | | | CONSTANT HORSEPOWER | | | |
|-----------------|---------------|-----------------|----------------|---------------------|------------|------------------|--------------------|
| HZ | HP | RPM | TORQUE (lb-ft) | HZ | HP | RPM | TORQUE (lb-ft) |
| 6~60 | 10~100 | 180~1800 | 295.8 | 60~90 | 100 | 1800~2700 | 295.8~197.2 |

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.% | | | | | | |
| 1775 | 94.5 | 95.4 | 95.4 | 95 | 87.5 | 85.5 | 80 | 82 |

CURRENTS

| NO LOAD | | | FULL LOAD | | | LOCKED ROTOR | | | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS | |
|--------------|--------------|-------------|---------------|---------------|---------------|---------------|---------------|------------|----------------------|----------------------------|-----------|
| AT | AT | AT | AT | AT | AT | AT | AT | AT | | COLD | HOT |
| 208 VOLT | 230 VOLT | 460 VOLT | 208 VOLT | 230 VOLT | 460 VOLT | 208 VOLT | 230 VOLT | 460 VOLT | G | 17 | 12 |
| 41.55 | 50.80 | 25.4 | 247.69 | 224.00 | 112.00 | 1603.0 | 1450.0 | 725 | | | |

| 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 |
| 295.80 | 215 | 140 | 215 | 26.637 | 441 | 590 | 4.65 | 6.13 | 2 | 10 |

| | | | | | |
|-----------|------------------|-------------|---------------------|-----------|----------|
| APPROVED: | M. PRATER | DRAWING NO. | 31057EP1004S | REVISION: | 0 |
|-----------|------------------|-------------|---------------------|-----------|----------|