

TECO Westinghouse

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| ISSUED 8/28/2014 | PERFORMANCE DATA 3-PHASE INDUCTION MOTOR | ENCLOSURE TEFC |
| TYPE AEHH8BCF | | CATALOG# HB0304C |

NAMEPLATE INFORMATION

| OUTPUT | | POLE | FRAME SIZE | VOLTAGE | HZ | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING | SERVICE FACTOR |
|-----------|-------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP | KW | | | | | | | | | |
| 30 | 22.4 | 4 | 286TC | 460 | 60 | 50°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 | 0.0038~30 | 90~1800 | 0.223~88.99 | 0.1043 | 0.205 | 0.6931 | 1.1081 | 32.734 |

| CONSTANT TORQUE | | | | CONSTANT HORSEPOWER | | | |
|-----------------|-------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ | HP | RPM | TORQUE (lb-ft) | HZ | HP | RPM | TORQUE (lb-ft) |
| 6~60 | 3~30 | 180~1800 | 88.99 | 60~90 | 30 | 1800~2700 | 88.99~59.33 |

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.% | | | | | | |
| 1770 | 92.4 | 93.6 | 93.6 | 93.6 | 87.5 | 85.5 | 79.5 | 70 |

| CURRENTS | | | NEMA KVA CODE LETTER | SAFE STALL TIME IN SECONDS | |
|-------------|--|--------------|----------------------|----------------------------|-----------|
| NO LOAD | | FULL LOAD | | LOCKED ROTOR | |
| AT 460 VOLT | | AT 460 VOLT | | AT 460 VOLT | |
| 8.75 | | 34.30 | G | 25 | 18 |

| 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 |
| 88.99 | 200 | 160 | 235 | 5.274 | 144 | 328 | 4.80 | 10.72 | 2 | 1 |

| | | | | | |
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| APPROVED: | M. PRATER | DRAWING NO. | 31057HB0304C | REVISION: | 1 |
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