

TECO Westinghouse

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| ISSUED 8/28/2014 | PERFORMANCE DATA 3-PHASE INDUCTION MOTOR | ENCLOSURE TEFC |
| TYPE AEHH8BCF | | CATALOG# HB0102C |

NAMEPLATE INFORMATION

| OUTPUT | | POLE | FRAME SIZE | VOLTAGE | HZ | RATED AMBIENT | INS. CLASS | NEMA DESIGN | TIME RATING | SERVICE FACTOR |
|-----------|------------|----------|--------------|------------|-----------|---------------|------------|-------------|--------------|----------------|
| HP | KW | | | | | | | | | |
| 10 | 7.5 | 2 | 215TC | 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 | 0.0013~10 | 180~3600 | 0.038~14.96 | 0.3513 | 0.5768 | 1.725 | 3.3948 | 87.938 |

| CONSTANT TORQUE | | | | CONSTANT HORSEPOWER | | | |
|-----------------|-------------|-----------------|----------------|---------------------|-----------|------------------|--------------------|
| HZ | HP | RPM | TORQUE (lb-ft) | HZ | HP | RPM | TORQUE (lb-ft) |
| 6~60 | 1~10 | 360~3600 | 14.96 | 60~90 | 10 | 3600~5400 | 14.96~9.973 |

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 | 91.7 | 91 | 89.5 | 88.5 | 82.5 | 71 |

| 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 | | | |
| 2.96 | 11.50 | 81 | 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 |
| 14.96 | 220 | 180 | 260 | 0.573 | 11 | 20 | 4.01 | 7.12 | 2 | 1 |

| | | | | | |
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| APPROVED: | M. PRATER | DRAWING NO. | 31057HB0102C | REVISION: | 1 |
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