

XP1820

General Purpose Explosion Proof Motor

Class I, Division I, Groups C & D and Class II, Division I, Groups E, F and G - Operating Temperature Code: T3C



DIMENSIONS – INCHES

| A | B | C | D | E | 2F1 | 2F2 | G | H | J | O |
|------|-------|-------|------|-------|------|------|------|------|-----|-------|
| 12.5 | 12.5 | 26.2 | 6.25 | 5.0 | 8.25 | 10 | 0.9 | 0.5 | 2.8 | 13.4 |
| P | R | S | T | U | ES | AA | AB | BA | N-W | Mount |
| 14.1 | 1.416 | 0.375 | 2.4 | 1.625 | 2.91 | 1.25 | 13.6 | 4.25 | 4 | F1 |

PERFORMANCE DATA

Three Phase – 60Hz - 208-230/460V – NEMA Design B – Max. Ambient: 40° C

| HP | Speed | Frame | NEMA Code | Efficiency (%) | | | Power Factor | | | Torque (ft-lb) | | |
|--------------|-------|------------|-------------|------------------|----------------|----------------|--------------|-------|-------|----------------|-----|------|
| | | | | 100% | 75% | 50% | 100% | 75% | 50% | FLT | BDT | LRT |
| 20 | 1760 | 256T | G | 91.0 | 92.7 | 92.8 | 0.90 | 0.888 | 0.821 | 59.68 | 123 | 92.7 |
| Amps (460V) | | DE Bearing | ODE Bearing | Insulation Class | Enclosure Type | Service Factor | Weight (lbs) | | | | | |
| FLA | LRA | | | | | | | | | | | |
| 23.0 | 145 | 6309 | 6309 | F | TEFC | 1.15 | 425 | | | | | |



North American Electric, Inc. 350 Vaiden Drive, Hernando, MS 38632

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50Hz AND 60Hz DATA FOR 3 PHASE AC INDUCTION MOTOR AS IT APPEARS ON THE NAMEPLATE.

XP1820

| | | | | | | | |
|---|-----------------------|--------------|---------|-----------------------|---------|-------------------------|---------------|
| CAT. NO: XP1820 | | FRAME: 256T | | ENCL: TEFC | | PHASE: 3 | |
| SHAFT END BRG: 6309 | | | | OPP/END BRG: 6309 | | | |
| MAX. AMB: 40° C | | INS CLASS: F | | RATING: CONT. | | MOTOR WEIGHT: 425LBS | |
| USABLE ON 208V 60HZ AT: 50.9 MAX. AMPS | | | | | | SER: | |
| DIVISION I, CLASS I, GROUPS C & D CLASS II, GROUPS E, F & G | | | | | | OP TEMP CODE: T3C | |
| 60 HERTZ DATA | HP: 20 RPM: 1760 | | | HP: 20 RPM: 1455 | | | 50 HERTZ DATA |
| | VOLTAGE: 230/460V | | | VOLTAGE: 190/380V | | | |
| | F. L. AMPS: 46.0/23.0 | | | F. L. AMPS: 56.0/28.0 | | | |
| | S.F. AMPS: 53.0/26.5 | | | S.F. AMPS: 56.0/28.0 | | | |
| | S.F. 1.15 | DESIGN: B | CODE: G | S.F. 1.0 | DESIGN: | CODE: H | |
| | NEMA NOM. EFF: 91.0% | | | NEMA NOM. EFF: 89.5% | | | |
| | NOM. P. F.: 0.90 | | | NOM. P. F.: 0.909 | | | |
| | NEMA MIN. EFF.: 89.5% | | | NEMA MIN. EFF.: 87.5% | | | |
| | MAX. KVAR: 5.55 | | | MAX. KVAR: 4.16 | | | |

Note: F.L. = Full Load P.F. = Power Factor S.F. = Service Factor



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