

SD1875C

SEVERE DUTY – INVERTER RATED (10:1 VT; 5:1 CT)

Energy Efficient – Three Phase – TEFC - AC Motor



DIMENSIONS – INCHES

| MOUNTING | | | | | A | B | C | D | G | J | P | L | BC | AH | AB | AA |
|----------|-------|--------|----------|-------|--------|-------|------|--------|------|-----------------|------|-------|-------|------|------|----|
| E | 2F1 | 2F2 | H | BA | | | | | | | | | | | | |
| 7 | 11.25 | 12.25 | 0.66 | 5.88 | 18 | 15.38 | 35.3 | 9 | 1.11 | 2.95 | 17.7 | 20.9 | +0.25 | 5.62 | 15.6 | 3 |
| KEY | | | KEYSET R | | FLANGE | | | | | SHAFT EXTENSION | | | | | | |
| WIDTH | | LENGTH | | AK | AJ | BF | | BB | BD | N-W | U | | | | | |
| 0.625 | | 4.28 | | 2.021 | 12.5 | 11 | | 5/8-11 | 0.25 | 14 | 5.88 | 2.375 | | | | |

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% |
| 75 | 1780 | 365TC | G | 94.4 | 94.7 | 94.4 | 0.888 | 0.884 | 0.831 | 221.29 | 255 | 213 |
| Amps (460V) | | DE Bearing | ODE Bearing | Insulation Class | Enclosure Type | Service Factor | Weight (lbs) | | | | | |
| FLA | LRA | | | | | | | | | | | |
| 82.6 | 487.2 | 6314 | 6314 | F | TEFC | 1.15 | 983 | | | | | |



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

SEVERE DUTY – INVERTER RATED (10:1 VT; 5:1 CT)

| | | | | | | | |
|---|------------------------|--------------|---------|-------------------------|---------|-------------------------|---------------|
| CAT. NO: H1875C | | FRAME: 365TC | | ENCL: TEFC | | PHASE: 3 | |
| SHAFT END BRG: 6314 | | | | OPP/END BRG: 6314 | | | |
| MAX. AMB: 40° C | | INS CLASS: F | | RATING: CONT. | | MOTOR WEIGHT: 983LBS | |
| USABLE ON 208V 60HZ AT: 148.4 MAX. AMPS | | | | | | SER: | |
| 60 HERTZ DATA | HP: 75 RPM: 1780 | | | HP: 75 RPM: 1470 | | | 50 HERTZ DATA |
| | VOLTAGE: 230/460V | | | VOLTAGE: 190/380V | | | |
| | F. L. AMPS: 165.2/82.6 | | | F. L. AMPS: 201.6/100.8 | | | |
| | S.F. AMPS: 191.6/95.8 | | | S.F. AMPS: 201.6/100.8 | | | |
| | S.F. 1.15 | DESIGN: B | CODE: G | S.F. 1.0 | DESIGN: | CODE: H | |
| | NEMA NOM. EFF: 94.4% | | | NEMA NOM. EFF: 93.0% | | | |
| | NOM. P. F.: 0.888 | | | NOM. P. F.: 0.891 | | | |
| | NEMA MIN. EFF.: 93.0% | | | NEMA MIN. EFF.: 91.7% | | | |
| | MAX. KVAR: 18.0 | | | MAX. KVAR: 13.4 | | | |

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



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