

## SD18300

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

Energy Efficient – Three Phase – TEFC - AC Motor



### DIMENSIONS – INCHES

|      |      |       |      |       |      |     |      |      |      |       |
|------|------|-------|------|-------|------|-----|------|------|------|-------|
| A    | B    | C     | D    | E     | 2F1  | 2F2 | G    | H    | J    | O     |
| 22   | 30.5 | 55.8  | 11   | 9     | 20   | 25  | 1.38 | 0.81 | 3.35 | 21.8  |
| P    | R    | S     | T    | U     | ES   | AA  | AB   | BA   | N-W  | Mount |
| 21.6 | 2.88 | 0.875 | 4.25 | 3.375 | 6.91 | 3   | 19.5 | 7.5  | 8.5  | F1    |

### PERFORMANCE DATA

Three Phase – 60Hz - 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% |
| 300          | 1785  | 449T       | G           | 95.6             | 96.2           | 95.9           | 0.909            | 0.911 | 0.882 | 882.69         | 258  | 213  |
| Amps ( 460V) |       | DE Bearing | ODE Bearing | Insulation Class | Enclosure Type | Service Factor | Weight (lbs)     |       |       |                |      |      |
| FLA          | LRA   |            |             |                  |                |                |                  |       |       |                |      |      |
| 318.4        | 1877  | NU319      | 6319        | F                | TEFC           | 1.15           | 2759             |       |       |                |      |      |



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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: H18300                      |                       | FRAME: 449T  |         | ENCL: TEFC            |         | PHASE: 3                 |               |
| SHAFT END BRG: NU319                 |                       |              |         | OPP/END BRG: 6319     |         |                          |               |
| MAX. AMB: 40° C                      |                       | INS CLASS: F |         | RATING: CONT.         |         | MOTOR WEIGHT:<br>2759LBS |               |
| USABLE ON 208V 60HZ AT:    MAX. AMPS |                       |              |         |                       |         | SER:                     |               |
| 60 HERTZ DATA                        | HP: 300    RPM: 1785  |              |         | HP: 300    RPM: 1480  |         |                          | 50 HERTZ DATA |
|                                      | VOLTAGE: 460V         |              |         | VOLTAGE: 380V         |         |                          |               |
|                                      | F. L. AMPS: 318.4     |              |         | F. L. AMPS: 391.7     |         |                          |               |
|                                      | S.F. AMPS: 366.2      |              |         | S.F. AMPS: 391.7      |         |                          |               |
|                                      | S.F. 1.15             | DESIGN: B    | CODE: G | S.F. 1.0              | DESIGN: | CODE: H                  |               |
|                                      | NEMA NOM. EFF: 95.6%  |              |         | NEMA NOM. EFF: 94.5%  |         |                          |               |
|                                      | NOM. P. F.: 0.909     |              |         | NOM. P. F.: 0.903     |         |                          |               |
|                                      | NEMA MIN. EFF.: 94.5% |              |         | NEMA MIN. EFF.: 93.6% |         |                          |               |
|                                      | MAX. KVAR: 58.6       |              |         | MAX. KVAR: 39.4       |         |                          |               |

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



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