

PRODUCT INFORMATION PACKET



Model No: 256TTTNA16577AA

Catalog No: 824557.00

..10HP..1200RPM.256T.TEAO.230/460V.3PH.60HZ.CONT.40C.1.15SF.RIGID.....COOLING TOWER.....

Cooling Tower



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Nameplate Specifications

| | | | |
|----------------------------|----------------------------------|------------------------|-------------------|
| Output HP | 10 Hp | Output KW | 7.5 kW |
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 26.2/13.1 A | Speed | 1176 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 91 % | Duty | Continuous |
| Insulation Class | F | Design Code | B |
| KVA Code | H | Frame | 256TV |
| Enclosure | Totally Enclosed Air Over | Overload Protector | No |
| Ambient Temperature | 40 °C | Drive End Bearing Size | 6309 |
| Opp Drive End Bearing Size | 6210 | UL | Recognized |
| CSA | Y | CE | Y |
| IP Code | 56 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|---------------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 6 | Rotation | Reversible |
| Mounting | Rigid base | Motor Orientation | HORIZONTAL OR UP OR DOWN |
| Drive End Bearing | BALL | Opp Drive End Bearing | BALL |
| Frame Material | Cast Iron | Shaft Type | T |
| Overall Length | 24.31 in | Frame Length | 12.25 in |
| Shaft Diameter | 1.625 in | Shaft Extension | 4 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | | |
| Outline Drawing | B-SS208432-1225 | Connection Diagram | A-EE7308 |

EE7308

THREE PHASE
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

| NO. | REVISION | BY & DATE | CHK | ANG | TOLERANCES UNLESS SPECIFIED | | FINISH | DRAWN RM 11/20/1990 | | | | |
|--|--|----------------|-----|-------|--------------------------------|--------|---|---------------------|--------|--------------------|-----------|--------|
| | | | | | DEC. | INCHES | | | | | | |
| 5 | CHG TO REGAL LOGO | SL 09/10/2015 | AB | | | | | CHK ML 11/21/1990 | | | | |
| 4 | REVISED IEC NOTATIONS | MSG 11/15/2011 | CMN | .X | ±.1 | | | APPD SAS 04/24/2003 | | | | |
| 3 | ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194 | MSG 5/10/2010 | MJS | .XX | ±.02 | | | SCALE 1=1 | | | | |
| 2 | ADDED THE OPTIONAL CORD CONNECTION MU46318 | RDH 04/24/2003 | DRS | .XXX | ±.005 | | TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR | REF | | | | |
| 1 | REDRAWN | RM 11/20/1990 | | .XXXX | ±.0005 | | MAT'L. | FMF | | | | |
| | | | | | ±7'30" | | | PREV | | | | |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT | | | | | | | RFP | CAD FILE ee7308 | SIZE A | DRAWING NO. EE7308 | PAGE OF 5 | REV. 5 |
| | | | | | | | DIST WP | | | | | |





P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EET7308
OUTLINE: B-SS208432-1225
WINDING: 256674

CAT #: 824557.00

R11 6

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN | |
|--------------|-----------------|------------------------|---------------------------|------------------|-------------|-----------|------------------|-------------|-------|
| 10 | 7.5 | 1200 | 1176 | 266TV | TEAO | TTN | H | B | |
| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
| 3 | 60/50 | 230/460#190/380 | 26.2/13.1&23/11.5 | LINE OR INVERTER | CONT | F | 1.15 | 40 | 3300 |
| F.L. EFF | F.L. PF | 3/4 LD EFF | 3/4 LD PF | 1/2 LD EFF | 1/2 LD PF | 90.2 | GTD EFF | ELECT. TYPE | |
| 91.0 | 79.0 | 91.0 | 72.5 | 72.5 | 61.0 | 89.5 | SQ CAGE INVERTED | | |
| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (% C) | | | | | |
| 44.7 LB-FT | 81.0 | 92.0 LB-FT | 206% | 139 LB-FT | 311% | 0 | | | |
| PRESSURE @ 3 | POWER | ROTOR WK ² | MAX. LOAD WK ² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT | | | |
| 999 DBA | 1008 DBA | 3.0 LB-FT ² | 225 LB-FT ² | 20 SEC. | 2 | 360 LB. | | | |

***** SUPPLEMENTAL INFORMATION *****

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|---------------------|-------------|-------------------------|-------------|----------------|-------------------|
| STANDARD | STANDARD | RIGID | ZONIAL OR UP OR DWN | SEVERE | NONE | NO | NONE | UE - LEESON (EPO) |
| BEARINGS | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT | MATERIAL | FRAME MATERIAL | |
| DE BALL 6309 | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON | | |

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|--------------|--------------|--------------|--------------|--------------|--------------------|---------------|
| NONE | NOT | NONE | NONE | NONE | FALSE | NA |
| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
| 0.571 | 0.491 | 2.238 | 2.513 | 43.168 | 0.080 | ODE |

| | | | |
|---------------|--|--------------------------------|--|
| * N O T E S * | | INVERTER TORQUE: CONSTANT 10:1 | |
| | | INV. HP SPEED RANGE: NONE | |
| | | ENCODER: NONE | |
| | | BRAKE: NONE | |
| | | NONE PPR | |

| | | | |
|-----------------|-----------|-----------------------|-----|
| DATE: 1/22/2018 | FT-LB: NA | NONE | HZ: |
| VOLTAGE: NONE | | UL: Y-(LEESON UL REC) | |



| | | Motor Load Data | | | | | LR | |
|----------------|------|-----------------|------|------|------|------|------|------|
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | |
| Current (Amps) | 6.5 | 7.0 | 8.5 | 10.5 | 13.1 | 15.0 | 16.0 | 81.0 |
| Torque (ft-lb) | 0.00 | 11.0 | 22.0 | 33.5 | 44.7 | 51.0 | 56.0 | 92.0 |
| HPM | 1200 | 1195 | 1190 | 1180 | 1176 | 1170 | 1165 | 0 |
| Efficiency (%) | | 84.0 | 90.2 | 91.0 | 91.0 | 90.2 | 89.5 | |
| P.F. (%) | 5.5 | 39.5 | 61.0 | 72.5 | 79.0 | 80.0 | 81.5 | 41.0 |

| | | Motor Speed Data | | | | | Information Block | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------------------|------|-------|------|------|-------------------|-------|-----------|--------------|-----------------|-----------|--------|----------------|----------------|----------------|------|---------|-----------|-----------------------------|------------|---------------------|---------------|-----------------|------------|----------------------------|--|
| | LR | Pull-Up | BD | Rated | Idle | HP | Sync. RPM | Frame | Enclosure | Construction | Voltage | Frequency | Design | LR Code letter | Service Factor | Temp Rise @ FL | Duty | Ambient | Elevation | Rotor/Shaft wk ² | Ref Wdg | Sound Pressure @ 1M | VFD Rating | Outline Dwg | Conn. Diag | Additional Specifications: | |
| Speed (RPM) | 0 | 400 | 1055 | 1176 | 1200 | 10.0 | 1200 | 256 | TEAO | TTN | 230/460#190/380 | 60 | B | H | 1.15 | 0 | CONT | 40 °C | 1,000 | 3.0 | 256674 R11 | 999 | CONSTANT 10:1 | B-SS208432-1225 | A-EE7308 | | |
| Current (Amps) | 81.0 | 78.0 | 53.5 | 13.1 | 6.5 | | | | | | | | | | | | | | | | | | | | | | |
| Torque (ft-lb) | 92.0 | 86.0 | 139 | 44.7 | 0.00 | | | | | | | | | | | | | | | | | | | | | | |

