

| FRAME SIZE | FLANGE DIMENSIONS | | | | | | | | |
|---------------|-------------------|-------|--------|------|------|-------|------|--------|-------|
| | AH | AJ | AK | BB | BC | BD | BF | TAP | BV |
| 284TSC/286TSC | 3.000 | 9.000 | 10.500 | 0.25 | 0.25 | 11.02 | 1/2" | -13UNC | 10.50 |
| 284TC/286TC | 4.375 | 9.000 | 10.500 | 0.25 | 0.25 | 11.02 | 1/2" | -13UNC | 10.50 |

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | CONDUIT BOX | | | | | | | |
|---------------|------------------|------|------|------|-----|-----|---|---|------|------|-------------|------|------|-----|------|-----|-----|-----|
| | A | B | C | D | G | J | K | M | O | P | T | AA | AB | AC | AE | AF | XL | XN |
| 284TSC/286TSC | 13.1 | 13.4 | 31.1 | 7.00 | 0.7 | 2.4 | 0 | 0 | 13.9 | 14.3 | 2.4 | 1.50 | 12.2 | 9.8 | 7.00 | 2.8 | 7.0 | 6.1 |
| 284TC/286TC | 13.1 | 13.4 | 33.3 | 7.00 | 0.7 | 2.4 | 0 | 0 | 13.9 | 14.3 | 2.4 | 1.50 | 12.2 | 9.8 | 7.00 | 2.8 | 7.0 | 6.1 |

- NOTES:
1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
 2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
 3. KEY DIMENSIONS EQUAL S x S x 3.25 FOR T AND S x S x 1.87 FOR TS (MOTOR SUPPLIED WITH KEY)
 4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
 5. THIS DIMENSION EQUALS 2F FOR 284TC/TSC MOUNTING
 6. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

CUSTOMER: _____ MOTOR MODEL NO.: _____ TAG NO's.: _____

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN): _____ HZ: _____

FRAME SIZE: _____ PRODUCT TYPE: IEBC VECTOR READY EQP III

COMMENTS: _____

PER: _____ DATE: _____

STANDARD (NO AUX. BOXES)

RTD AUX. BOX

SPACE HEATER AUX. BOX

BEARING RTD's

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED CERTIFIED

TOSHIBA TOTALLY-ENCLOSED BLOWER-COOLED
 HORIZONTAL FOOT-MOUNTED
 3 PHASE INDUCTION MOTOR

TOSHIBA INTERNATIONAL CORPORATION

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XT SERIES

TYPICAL MOTOR PERFORMANCE DATA

Model: 0156BCFB32A

| | | | | | | | | |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 15 | 11 | 6 | 1175 | 284TC | 230/460 | 60 | 3 | 40/20 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEBC | 54 | F | 1.15 | CONT | 91.7 | A | G | 40 C |

| | | | | | |
|--------------|-------|------|---------|----------------|------------------|
| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load | 15 | 11.2 | 20.0 | 91.9 | 77.7 |
| ¾ Load | 11.25 | 8.4 | 16.1 | 91.7 | 73.7 |
| ½ Load | 7.50 | 5.6 | 13.1 | 90.4 | 64.5 |
| ¼ Load | 3.75 | 2.8 | 11.1 | 81.6 | 38.8 |
| No Load | | | 9.5 | | 5.6 |
| Locked Rotor | | | 118.00 | | 48.3 |

| | | | | |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque | | | | Rotor wk ² |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft ²) |
| 67 | 265 | 245 | 285 | 4.68 |

| | | | | | |
|--------------------|-----|---------------------------|-----------|----------|----------------------------|
| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
| Cold | Hot | | DE | NDE | |
| 35 | 15 | - | 6310C3 | 6310ZZC3 | |

*Bearings are the only recommended spare part(s).

Motor Options:
Product Family: Vector Ready Series
Mounting: C-Face Footed, Shaft: T Shaft

| | |
|-------------|--|
| Customer | |
| Customer PO | |
| Sales Order | |
| Project # | |

Tag:

All characteristics are average expected values.

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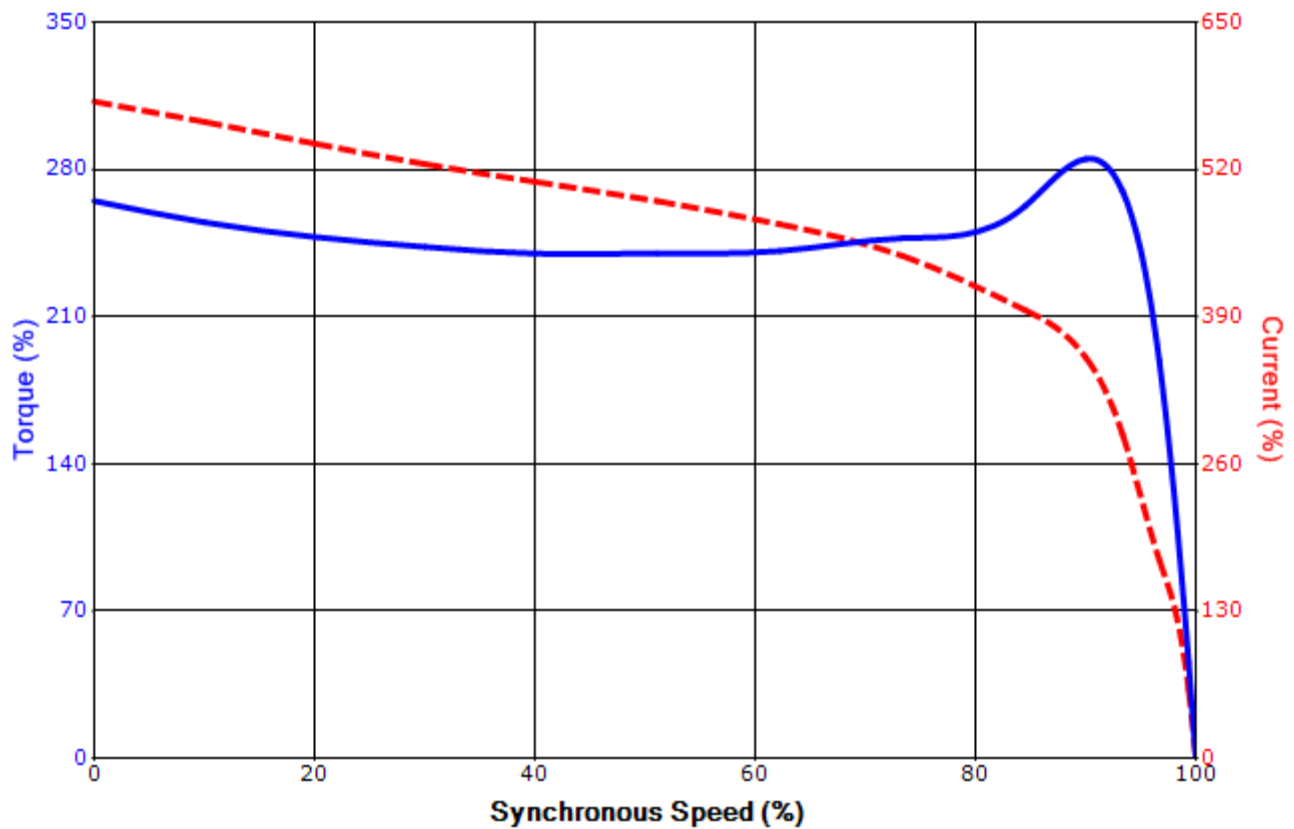
| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 4/19/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: 0156BCFB32A

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 15 | 11 | 6 | 1175 | 284TC | 230/460 | 60 | 3 | 40/20 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEBC | 54 | F | 1.15 | CONT | 91.7 | A | G | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 118.00 | 4.68 | 67 | 265 | 245 | | | 285 | |

Design Values



| | | | |
|-------------|--|--|-----|
| Customer | | wk ² Load Inertia (lb-ft ²) | - |
| Customer PO | | Load Type | - |
| Sales Order | | Voltage (%) | 100 |
| Project # | | Accel. Time | - |

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 4/19/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

Motor Connection Diagram 3 Leads - Wye Connection



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.
If multiple cables represent a single lead, each one
of them will be labeled with the appropriate lead number.