

60HZ TECHNICAL DATA SHEET

CATALOG No: **BC2N200-5**

ISSUED: 28-Apr-22

GENERAL INFORMATION

| HP | KW | Pole | RPM | Frame | Voltage | Hz | Phase | IP Rating |
|-----|--------|------|------|-------|---------|----|-------|-----------|
| 200 | 150.00 | 2 | 3600 | 447TS | 575 V | 60 | 3 | IP55 |

| Enclosure | Ins. Class | Service Factor | Time Rating | NEMA Design | Rated Amb. | Rated Altitude |
|-----------|------------|----------------|-------------|-------------|--------------|----------------|
| TEFC | F | 1.25 | Continuous | B | -15 to 40 C* | <3300 ft |

TYPICAL PERFORMANCE

| Efficiency (%) | | | Power Factor (%) | | |
|----------------|----------|----------|------------------|----------|----------|
| Full Load | 3/4 Load | 1/2 Load | Full Load | 3/4 Load | 1/2 Load |
| 95.4 | 95.6 | 94.1 | 0.92 | 0.94 | 0.84 |

| LRT% | BDT % | Full Load Amps | Locked Rotor Amps | Full Load RPM |
|------|-------|----------------|-------------------|---------------|
| | | 575 V | 575 V | |
| 220 | 210 | 172.00 | 1290.00 | 3575 |

| NEMA KVA Code | Bearing Size | | Oil Seal | | Sound Level |
|---------------|--------------|---------------|--------------|---------------|-------------|
| | Drive End | Non-Drive End | Drive End | Non-Drive End | dB(A) |
| H | 6316.00 | 6316.00 | 70 x 90 x 10 | 70 x 90 x 10 | 82 |

*Weights shown are estimated and based on standard foot mounted motor designs

VFD DUTY INFORMATION

| | Variable Torque | Constant Torque | Rating |
|---|-----------------|-----------------|--|
| - | 3 - 60 Hz | 4 - 60 Hz | CSA Approved Class I; Div 2; Groups A, B, C, & D, T3 |
| - | - | - | |

Click Link Below For Drawing

<http://brookcrompton.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B3/WP-DF447TS.pdf>

Click Link Below For Connection Diagram

<http://www.brookcrompton.com/Connections/Connection%20Diagram%206%20Lead%20575%20NEMA.pdf>

Notes:

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GENERAL INFORMATION

| HP | KW | Pole | RPM | Frame | Voltage | Hz | Phase | IP Rating |
|-----|--------|------|-----|-------|---------|----|-------|-----------|
| 200 | 150.00 | 2 | - | 447TS | - | 50 | 3 | IP55 |

| Enclosure | Ins. Class | Service Factor | Time Rating | NEMA Design | Rated Amb. | Rated Altitude |
|-----------|------------|----------------|-------------|-------------|--------------|----------------|
| TEFC | F | - | S1 | B | -15 to 40 C° | <3300 ft |

TYPICAL PERFORMANCE

| Efficiency (%) | | | Power Factor (%) | | |
|----------------|----------|----------|------------------|----------|----------|
| Full Load | 3/4 Load | 1/2 Load | Full Load | 3/4 Load | 1/2 Load |
| - | - | - | - | - | - |

| LRT % | BDT % | Full Load Amps | Locked Rotor Amps | Full Load RPM |
|-------|-------|----------------|-------------------|---------------|
| | | - | - | |
| 220 | 210 | - | - | - |

| NEMA KVA Code | Bearing Size | | Oil Seal | | Sound Level |
|---------------|--------------|---------------|--------------|---------------|-------------|
| | Drive End | Non-Drive End | Drive End | Non-Drive End | dB(A) |
| H | 6316.00 | 6316.00 | 70 x 90 x 10 | 70 x 90 x 10 | 82 |

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VFD DUTY INFORMATION

| | Variable Torque | Constant Torque | Rating |
|---|-----------------|-----------------|--|
| - | 3 - 60 Hz | 4 - 60 Hz | CSA Approved Class I; Div 2; Groups A, B, C, & D, T3 |
| - | - | - | |

Click Link Below For Drawing

<http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B3/WP-DF447TS.pdf>

Click Link Below For Connection Diagram

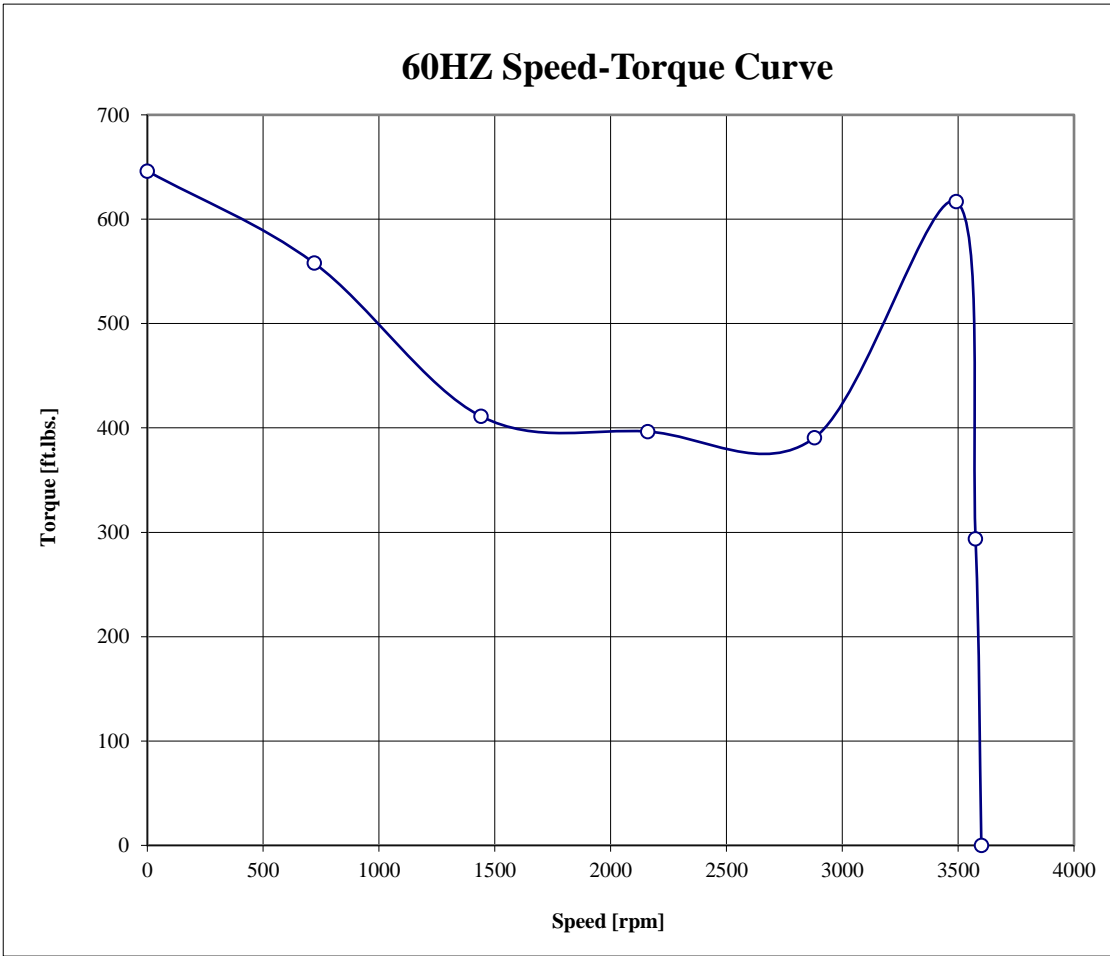
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%206%20Lead%20575%20NEMA.pdf>

Notes:

Motor: BC2N200-5

| | | | | | |
|--|------------------|-------|---------------|-------|----------|
| | Frame: | 447TS | 200 HP | 575 V | |
| | Pole no.: | 2 | 293.7 ft.lbs. | 60 Hz | 3575 rpm |

| | | | | | | | | |
|-------------------------------|-----|-----|------|------|------|------|-------|------|
| Speed | 0 | 720 | 1440 | 2160 | 2880 | 3492 | 3575 | 3600 |
| Speed ratios | 0 | 0.2 | 0.4 | 0.6 | 0.8 | 0.97 | 0.993 | 1 |
| Mot. torque ratios | 2.2 | 1.9 | 1.4 | 1.4 | 1.3 | 2.1 | 1 | 0 |
| Motor torque / ft.lbs. | 646 | 558 | 411 | 397 | 391 | 617 | 294 | 0 |

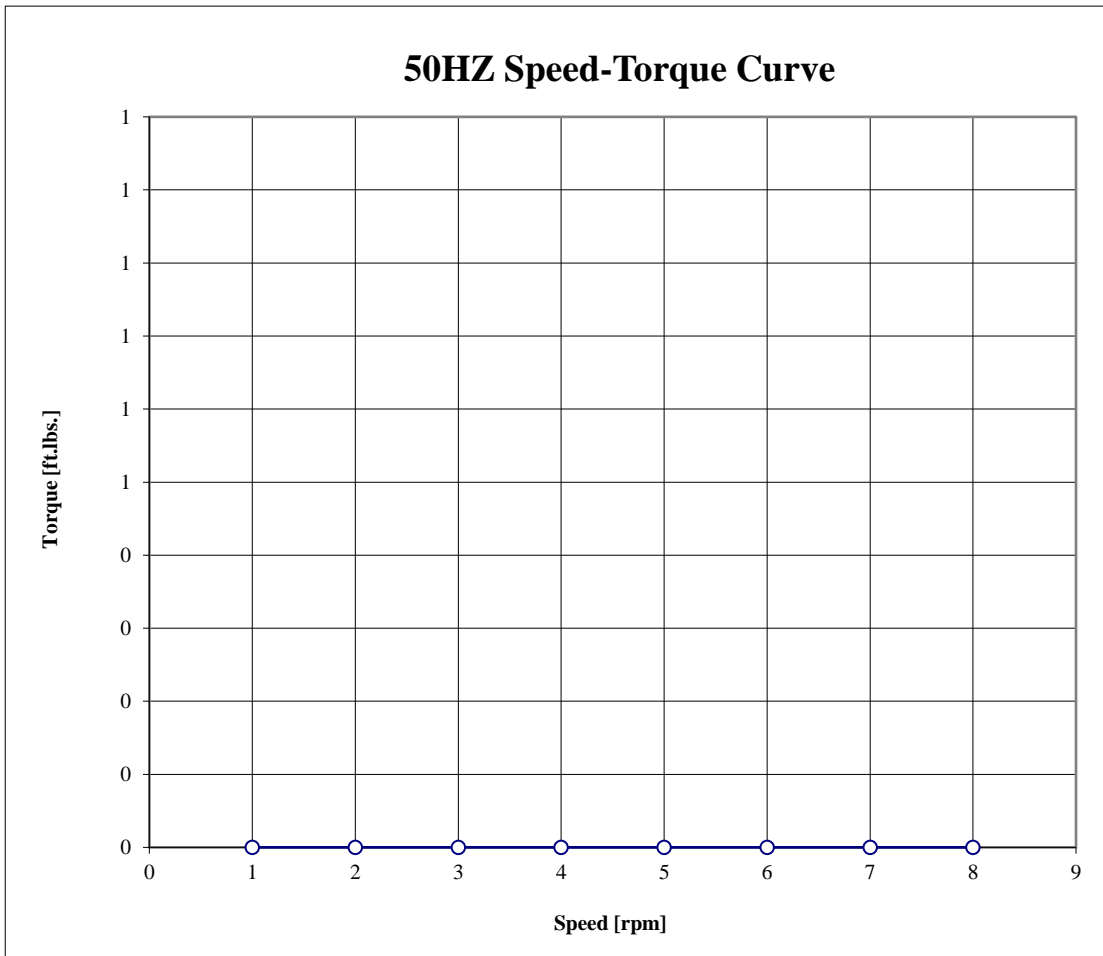


*Curve base on calculated values

50HZ Speed-Torque Curve not available for this motor

| | | | | | |
|--|------------------|-------|-----------|-------------------------|-------|
| | | | | Motor: BC2N200-5 | |
| | Frame: | 447TS | 200 HP | 400 V | |
| | Pole no.: | 2 | - ft.lbs. | 50 Hz | - rpm |

| | | | | | | | | |
|-------------------------------|-----|-----|------|------|------|------|---|------|
| Speed | 0 | 600 | 1200 | 1800 | 2400 | 2910 | - | 3000 |
| Speed ratios | 0 | 0.2 | 0.4 | 0.6 | 0.8 | 0.97 | - | 1 |
| Mot. torque ratios | 2.2 | 1.9 | 1.4 | 1.4 | 1.3 | 2.1 | 1 | 0 |
| Motor torque / ft.lbs. | - | - | - | - | - | - | - | - |



*Curve base on calculated values