

VECP83770T-4

7.5HP, 1765RPM, 3PH, 60HZ, 213TC, 0740M, TEFC



Product Information Packet PDF

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|--------------------|--------------|
| Ship Weight | 211.000 LB |
| UPC | 781568467930 |

Specs

| | | | |
|---------------------------------------|--|--------------------------------------|-----------------------------------|
| Catalog Number | VECP83770T-4 | Lifting Lugs | Standard Lifting Lugs |
| Enclosure | TEFC | Locked Bearing Indicator | Locked Bearing |
| Frame | 213TC | Max Speed | 2700 rpm |
| Frame Material | Iron | Motor Lead Exit | Ko Box |
| Frequency | 60.00 Hz | Motor Lead Termination | Flying Leads |
| Motor Letter Type | Three Phase | Motor Lead Quantity/Wire Size | 3 @ 14 AWG |
| Output @ Frequency | 7.500 HP @ 60 HZ | Motor Type | 0740M |
| Phase | 3 | Mounting Arrangement | F1 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ | Number of Poles | 4 |
| Voltage @ Frequency | 460.0 V @ 60 HZ | Overall Length | 20.24 IN |
| Haz Area Class and Group | CLI GP A,B,C,D | Power Factor | 82 |
| Haz Area Division | Division II | Product Family | Chem Process S/P 32-8 IEEE 841 |
| Agency Approvals | CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR | Pulley End Bearing Type | Ball |
| Ambient Temperature | 40 °C | Pulley Face Code | C-Face |
| Auxillary Box | No Auxillary Box | Pulley Shaft Indicator | Standard |
| Auxillary Box Lead Termination | None | Rodent Screen | None |
| Base Indicator | No Mounting | RoHS Status | ROHS COMPLIANT |
| Bearing Grease Type | Polyrex EM (-20F +300F) | Service Factor | 1.15 |
| Blower | None | Shaft Diameter | 1.375 IN |
| | | Shaft Extension Location | Pulley End |

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|--------------------------------------|---------------------------|
| Constant Torque Speed Range | 1.2 |
| Current @ Voltage | 9.500 A @ 460.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 91.7 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device | NO FEEDBACK |
| High Voltage Full Load Amps | 9.5 a |
| Front Face Code | Standard |
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |
| Insulation Class | F |
| Inverter Code | Inverter Duty |
| KVA Code | H |

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|-----------------------------------|---------------------|
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | No Slinger |
| Speed | 1765 rpm |
| Speed Code | Single Speed |
| Motor Standards | NEMA |
| Starting Method | Direct on line |
| Thermal Device - Bearing | None |
| Thermal Device - Winding | None |
| Vibration Sensor Indicator | No Vibration Sensor |
| Winding Thermal 1 | None |
| Winding Thermal 2 | None |
| Haz Area Temp Code | T3C |

Drawings

Dimension Sheet

Connection Diagram

⚠ CAD files for this product are currently unavailable.
 Visit one of our Part Community Portals for further assistance.

Nameplate

| | | | | | | |
|------------------------|--------------|--------------|-------------|-------------|---|----------------|
| CAT.NO. | VECP83770T-4 | | | | | |
| SPEC. | 07M323X814G1 | | | | | |
| HP | 7.5 TE | | IP | 56 | | |
| VOLTS | 460 | | | | | |
| AMPS | 9.5 | | | | | |
| R.P.M. | 1765 | | | | | |
| FRAME | 213TC | | HZ | 60 | | PH 3 |
| SER.F. | 1.15 | CODE | H | DES. | B | CLASS F |
| RATING | 40C AMB-CONT | | | | | |
| SN | | | | | | |
| DE | 6307 | | ODE | 6307 | | |
| NEMA NOM. EFF. | 91.7 | | P.F. | 82 | | |
| GUAR. MIN. EFF. | 90.2 | CC | 010A | | | |
| T. CODE | T3C | TEMP= | 160 | | | |

NP4328

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|---------------------|--------------|--------------------------------|-----|--------------------|----|--|
| SPEC. | 07M323X814G1 | | | | | |
| ABMA DE BRG | 35BC03X30X | | | | | |
| ABMA ODE BRG | 35BC03X30X | | | | | |
| GREASE | POLYREX EM | | | | | |
| MOTOR WEIGHT | 211 | ROTOR BARS | 28 | STATOR BARS | 36 | |
| MAX. R.P.M. | 2700 | MAX. KVAR | 1.3 | | | |
| INV.TYPE | PWM | | | | | |
| T= | 160 | | | | | |
| CHP | 60 | TO | 90 | | | |
| CT | 1.2 | TO | 60 | | | |
| VT | -0 | TO | 60 | | | |
| HTR-VOLTS | N/A | HTR-AMPS | N/A | | | |
| HTR-WATTS | | MAX. SPACE HEATER TEMP. | N/A | | | |

NP3186

Performance

Performance at 460 V, 60 Hz, 7.5 hp

Typical performance; not guaranteed values.

General Characteristics

| | | | |
|-------------------------|-------------------------------|---------------------|------------|
| Full Load Torque | 0 LB-FT | Start Configuration | DOL |
| No-Load Current | 0 A | Break-Down Torque | 66.8 LB-FT |
| Line-Line Res. @ 25° C | 1.485 Ohms A Ph / 0 Ohms B Ph | Pull-Up Torque | 30 LB-FT |
| Temp. Rise @ Rated Load | 54° C | Locked-Rotor Torque | 39.7 LB-FT |
| Temp. Rise @ S.F. Load | 67° C | Starting Current | 63.5 A |

Load Characteristics

| Rated Load | 0% | 25% | 50% | 75% | 100% | 125% | 150% | S.F. |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power Factor | 5.0 | 46.0 | 68.0 | 78.0 | 82.0 | 84.0 | 85.0 | 83.0 |
| Efficiency | 0.0 | 88.6 | 92.1 | 92.4 | 91.7 | 90.7 | 89.3 | 91.1 |
| Speed (RPM) | 1,798 | 1,790 | 1,783 | 1,774 | 1,765 | 1,756 | 1,744 | 1,760 |
| Line Amps | 3.71 | 4.30 | 5.61 | 7.32 | 9.31 | 11.50 | 13.90 | 10.60 |

Performance Curves

Parts

| Part Number | Description | Quantity |
|-------------|--|----------|
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (2100bx)4/22 | 1.000 EA |