



Customer information packet

CNEDM3554T

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 3530M, TENV

Class - None

Division - Not Applicable

Specifications

| | |
|--------------------------------|---|
| Enclosure | TENV |
| Frame | 145TC |
| Frame Material | Steel |
| Frequency | 60.00 Hz |
| Haz Area Class and Group | None |
| Haz Area Division | Not Applicable |
| Motor Letter Type | Three Phase |
| Output @ Frequency | 1.500 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 460.0 V @ 60 HZ 230.0 V @ 60 HZ |
| Agency Approvals | CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR |
| Ambient Temperature | 40 °C |
| Auxillary Box | No Auxillary Box |
| Auxillary Box Lead Termination | None |
| Base Indicator | Rigid |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Blower | None |
| Constant Torque Speed Range | 6 |
| Current @ Voltage | 4.600 A @ 230.0 V 4.400 A @ 208.0 V 2.300 A @ 460.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 86.5 % |
| Electrically Isolated Bearing | Not Electrically Isolated |

Part detail

| | |
|--------------|------------|
| Revision | E |
| Type | AC |
| Mech. spec. | 35E4320 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 35WGG178 |
| Layout | 35LYE4320 |
| Eff. date | 05-03-2024 |
| CD Diagram | CD0005 |
| Poles | 04 |
| Leads | 9#18 |
| Proprietary | False |
| Created date | 01-10-2022 |

| | |
|-------------------------------|---------------------|
| Feedback Device | NO FEEDBACK |
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 2.3 a |
| Insulation Class | F |
| Inverter Code | Inverter Ready |
| KVA Code | M |
| Lifting Lugs | No Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Max Speed | 2700 rpm |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 3530M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 13.00 IN |
| Power Factor | 72 |
| Product Family | Dirty Duty Plus |
| Pulley End Bearing Type | Sealed Bearing |
| Pulley Face Code | C-Face |
| Pulley Shaft Indicator | Standard |
| Rodent Screen | None |
| Service Factor | 1.15 |
| Shaft Diameter | 0.875 IN |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | No Slinger |
| Speed | 1770 rpm |
| Speed Code | Single Speed |
| 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 |

Nameplate

| NP3504 | | | | | | | | | |
|---------------------|---------------|-----------------|------|-------------------|------|-----------------|----|--|--|
| CAT NO | CNEDM3554T | | | | | | | | |
| SPEC. | 35E4320G178G1 | ENCL | TENV | | | | | | |
| FRAME | 145TC | HP | 1.5 | | | | | | |
| VOLTS | 230/460 | | | | | | | | |
| FLA | 4.6/2.3 | I.P. | 56 | | | | | | |
| RPM | 1770 | RPM MAX | 2700 | | | | | | |
| HZ | 60 | PH | 3 | CLASS | F | | | | |
| SER.F. | 1.15 | DES | B | CC | 010A | | | | |
| NEMA-NOM-EFF | 87.5 | | | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | |
| DE BRG | 6205 | ODE BRG | 6203 | | | | | | |
| GREASE | POLYREX EM | | | | | | | | |
| INV.TYPE | | C HP FR | 60 | C HP TO | 90 | | | | |
| CT HZ FROM | 6 | CT HZ TO | 60 | VT HZ FROM | 6 | VT HZ TO | 60 | | |
| SER.NO | SFA 4.66/2.33 | | | | | | | | |

AC Induction Motor Performance Data

Record # 82076

Typical performance - not guaranteed values

| Winding: 35WGG178-R001 | | Type: 3530M | | Enclosure: TENV | |
|-------------------------------|--------------------------|--------------------|--|--------------------------|--|
| Nameplate Data | | | 460 V, 60 Hz: High Voltage Connection | | |
| Rated Output (HP) | 1.5 | | Full Load Torque | 4.48 LB-FT | |
| Volts | 230/460 | | Start Configuration | direct on line | |
| Full Load Amps | 4.2/2.1 | | Breakdown Torque | 21.02 LB-FT | |
| R.P.M. | 1770 | | Pull-up Torque | 12.29 LB-FT | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 14.9 LB-FT | |
| NEMA Design Code | B KVA Code | M | Starting Current | 21.32 A | |
| Service Factor (S.F.) | 1.15 | | No-load Current | 1.29 A | |
| NEMA Nom. Eff. | 86.5 Power Factor | 76 | Line-line Res. @ 25°C | 10.1 Ω | |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 55°C | |
| S.F. Amps | | | Temp. Rise @ S.F. Load | 65°C | |
| | | | Locked-rotor Power Factor | 55.5 | |
| | | | Rotor inertia | 0.217 lb-ft ² | |

Load Characteristics 460 V, 60 Hz, 1.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 33 | 54 | 68 | 76 | 81 | 84 | 79 |
| Efficiency | 79.1 | 86.3 | 88.1 | 88.3 | 87.6 | 86.6 | 87.9 |
| Speed | 1790 | 1783 | 1776 | 1769 | 1761 | 1752 | 1764 |
| Line amperes | 1.35 | 1.52 | 1.78 | 2.11 | 2.47 | 2.89 | 2.33 |

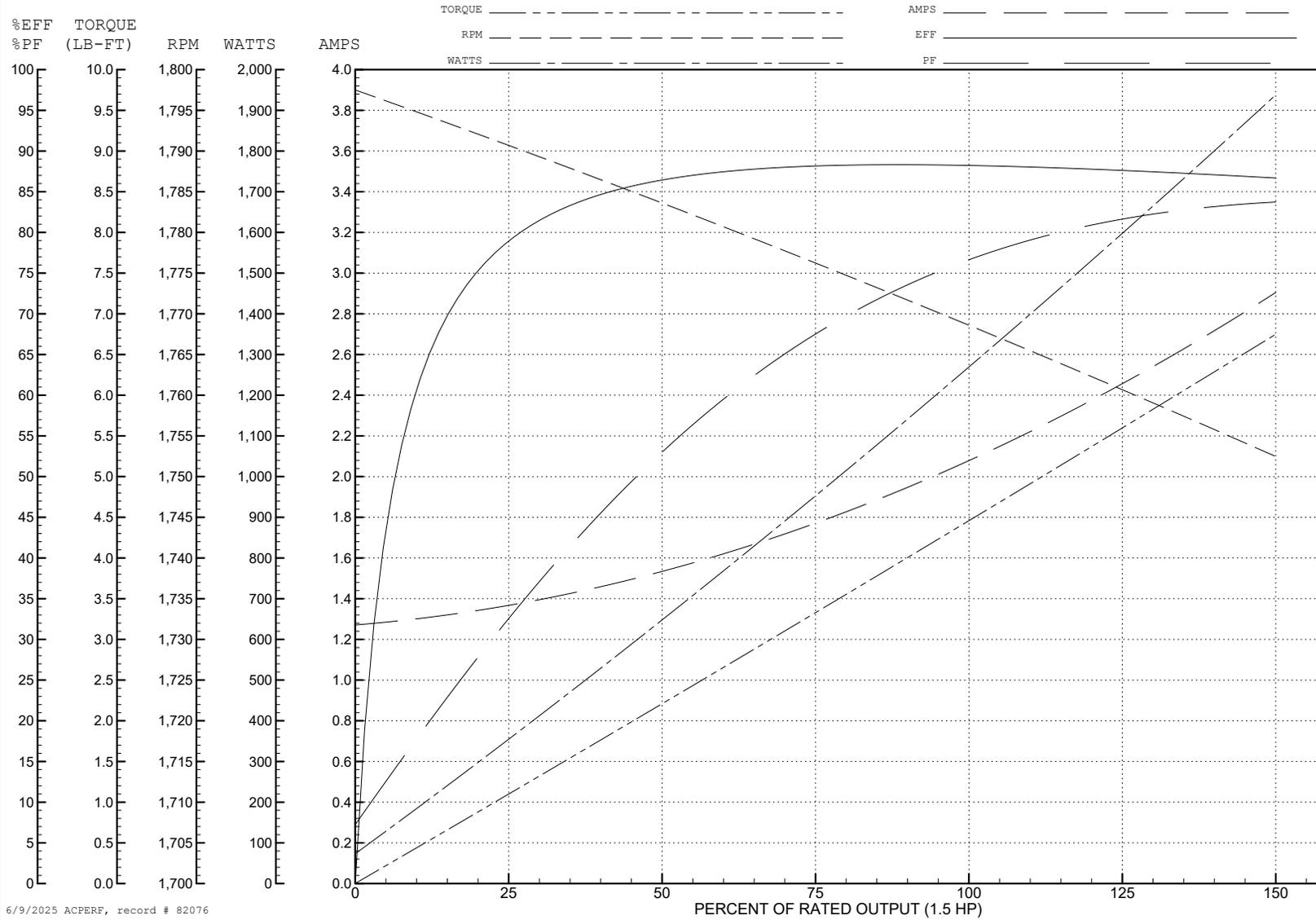
ABB Motors and Mechanical Inc.

WINDING # 35WGG178

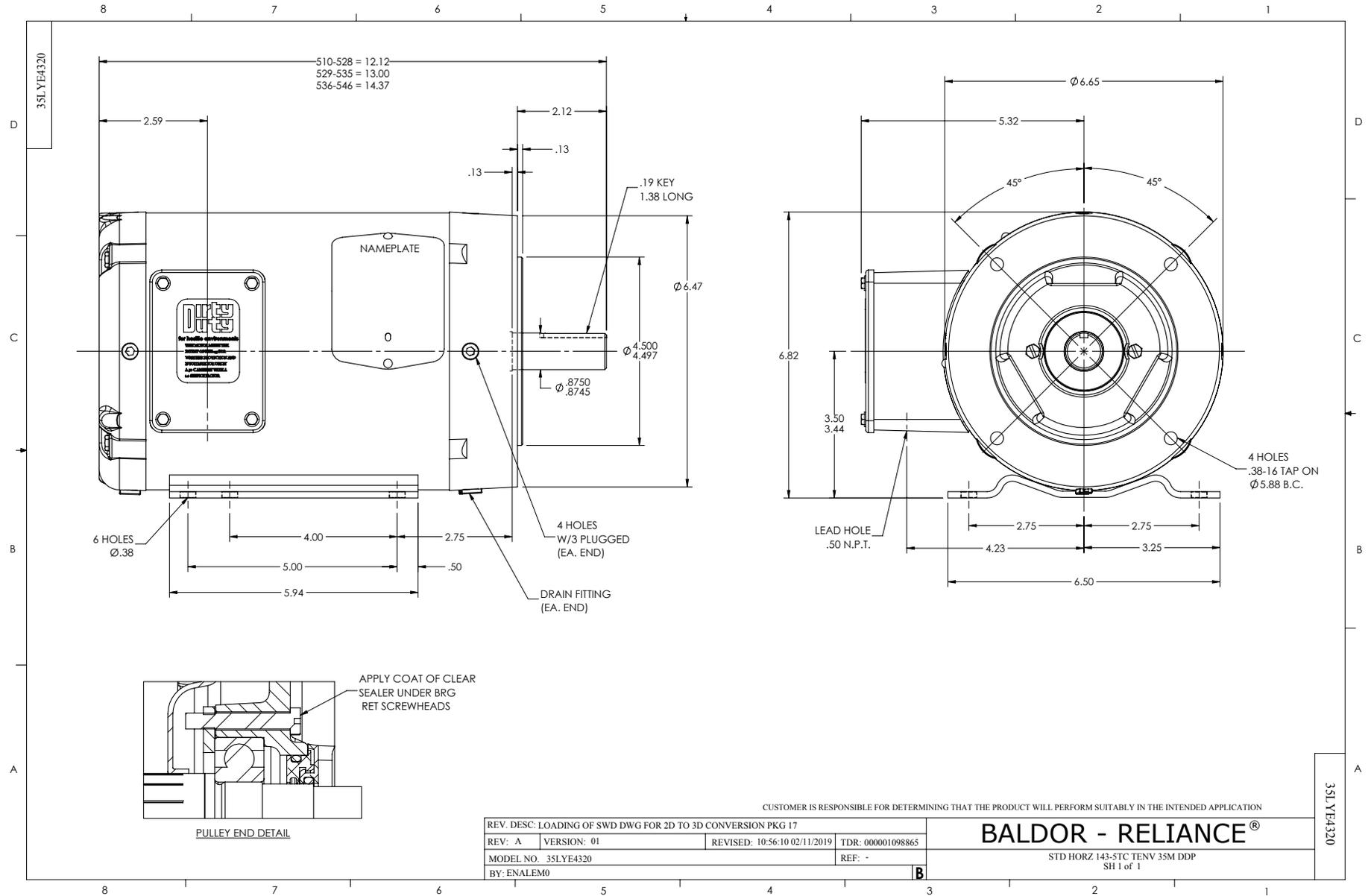
Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3530M

TORQUES (LB-FT): PO=21.02 PU=12.29 LR=14.9 LRA=21.32



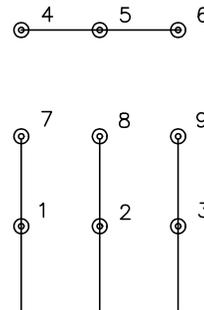
6/9/2025 ACPERF, record # 82076



CD0005

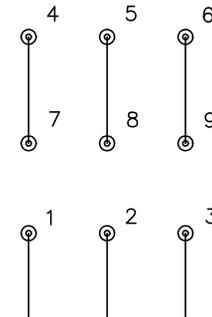


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

| | | | |
|---|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| S00000 | | FILE: AAA00005140 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS