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# Customer information packet

## CDP3575

1.1.5HP, 1750RPM, DC, 145TC, 3536P, TEFC, F1, N

Class - None

Division -

## Specifications

|                               |                           |
|-------------------------------|---------------------------|
| Armature Voltage              | 180 V                     |
| Base Speed                    | 1750 rpm                  |
| Enclosure                     | TEFC                      |
| Frame                         | 145TC                     |
| Frame Material                | Steel                     |
| Haz Area Class and Group      | None                      |
| Output Power                  | 1.500 HP                  |
| Agency Approvals              | CE<br>CSA<br>UR           |
| Ambient Temperature           | 40 °C                     |
| Armature Current              | 7.7 a                     |
| Armature Inertia              | 30.342 lb-ft <sup>2</sup> |
| Base Indicator                | Rigid                     |
| Bearing Grease Type           | Polyrex EM (-20F +300F)   |
| Drip Cover                    | No Drip Cover             |
| Duty Rating                   | CONT                      |
| Feedback Device               | NO FEEDBACK               |
| Heater Indicator              | No Heater                 |
| Lifting Lugs                  | No Lifting Lugs           |
| Motor Lead Exit               | Ko Box                    |
| Motor Lead Quantity/Wire Size | 2 @ 14 AWG, A             |
| Motor Lead Termination        | Flying Leads              |
| Motor Standards               | NEMA                      |
| Mounting Arrangement          | F1                        |
| Overall Length                | 16.37 IN                  |
| Product Family                | General Purpose           |
| Pulley End Bearing Type       | Sealed Bearing            |
| RoHS Status                   | ROHS COMPLIANT            |
| Service Factor                | 1.00                      |
| Shaft Diameter                | 0.875 IN                  |
| Shaft Extension Location      | Pulley End                |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AG         |
| Type         | DC         |
| Mech. spec.  | 35P432     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGZ164   |
| Layout       | 35LYP432   |
| Eff. date    | 07-08-2025 |
| CD Diagram   | CD0194     |
| Poles        | 00         |
| Leads        | 2#14 A Y   |
| Proprietary  | False      |
| Created date | 01-01-0001 |

|                         |                    |
|-------------------------|--------------------|
| Shaft Ground Indicator  | No Shaft Grounding |
| Shaft Rotation          | Reversible         |
| Shaft Slinger Indicator | No Slinger         |

## Nameplate

| NP0891L |             |          |   |         |   |
|---------|-------------|----------|---|---------|---|
| CAT.NO. | CDP3575     |          |   |         |   |
| SPEC.   | 35P432Z164  |          |   |         |   |
| HP      | 1.5/KW1.1   | ENCL     |   | TEFC    |   |
| RPM     | 1750 1/MIN  |          |   |         |   |
| FRAME   | 145TC       | TYPE     |   | 3536P   |   |
| ARM V   | 180         | ARM A    |   | 7.7     |   |
| FLD V   |             | FLD A    |   |         |   |
| INSUL   | F           | AMB.     |   | 40      |   |
| DUTY    | CONT        | SUPPLY   |   | K       |   |
| BRG/DE  | 6205        | BRG/ODE  |   | 6205    |   |
| BRUSHES | 2/BP5000T15 |          |   |         |   |
|         |             | BLANK    |   | IP44    |   |
| SER.    |             |          |   |         |   |
| BLANK   | IC411 KG30  |          |   |         |   |
| APRV-CE | Y           | APRV-CSA | Y | APRV-UL | Y |

**Accessories**

| Part number | Description              | Multiplier |
|-------------|--------------------------|------------|
| TK3500      | TACHO MOUTING KIT TK3500 | A8         |

**DC Motor Performance Data**

Record # 388

Typical performance - not guaranteed values

| Winding: 35WGZ164-R001 |              | Type: 3536P                   | Enclosure: TEFC |
|------------------------|--------------|-------------------------------|-----------------|
| Nameplate Data         |              | General Characteristics       |                 |
| Rated Output (HP)      | 1.5          | Armature Resistance<br>@ 25°C | 0.965 $\Omega$  |
| R.P.M.                 | 1750         |                               |                 |
| Armature Volts         | 180          | Voltage Constant              | 97.47 v/krpm    |
| Armature Amps          | 7.7          |                               |                 |
| Field Volts            |              | Armature Inductance           | 12.959 mH       |
| Field Amps             |              | Armature Inertia              | 30.342 $LI^2$   |
| Rating - Duty          | 40C AMB-CONT |                               |                 |
| Power Supply Code      | K            |                               |                 |

**Load Characteristics at 180 Armature Volts**

| Load Point       | 1    | 2    | 3     | 4    | 5     | 6    | 7     |
|------------------|------|------|-------|------|-------|------|-------|
| Armature Amps    | 0.5  | 3.6  | 5.4   | 7    | 8.5   | 10.2 | 12    |
| R.P.M.           | 1819 | 1762 | 1727  | 1701 | 1682  | 1661 | 1632  |
| Torque ( LB-FT ) | 0    | 2.25 | 3.375 | 4.5  | 5.625 | 6.75 | 7.875 |

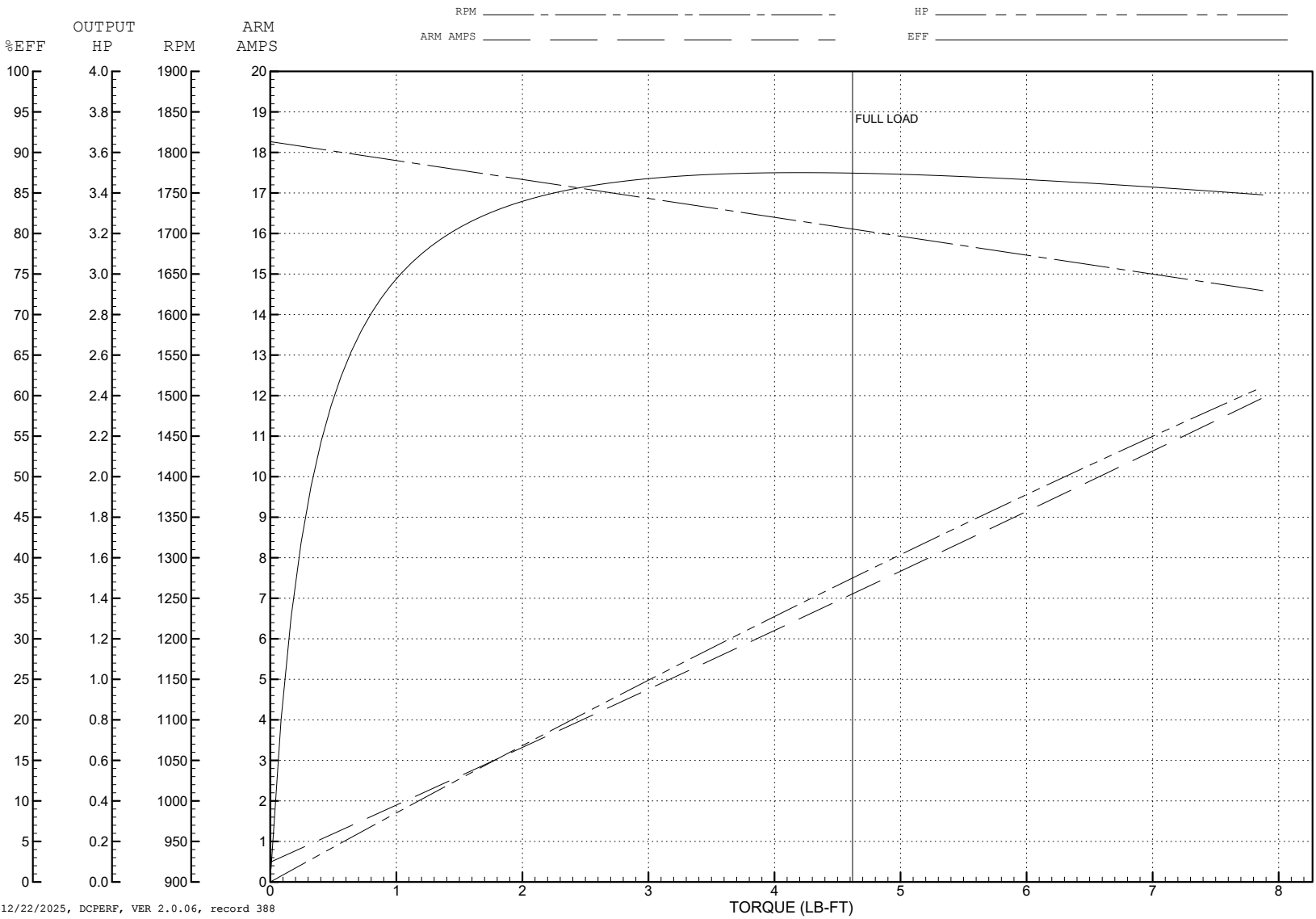
ABB Motors and Mechanical Inc.

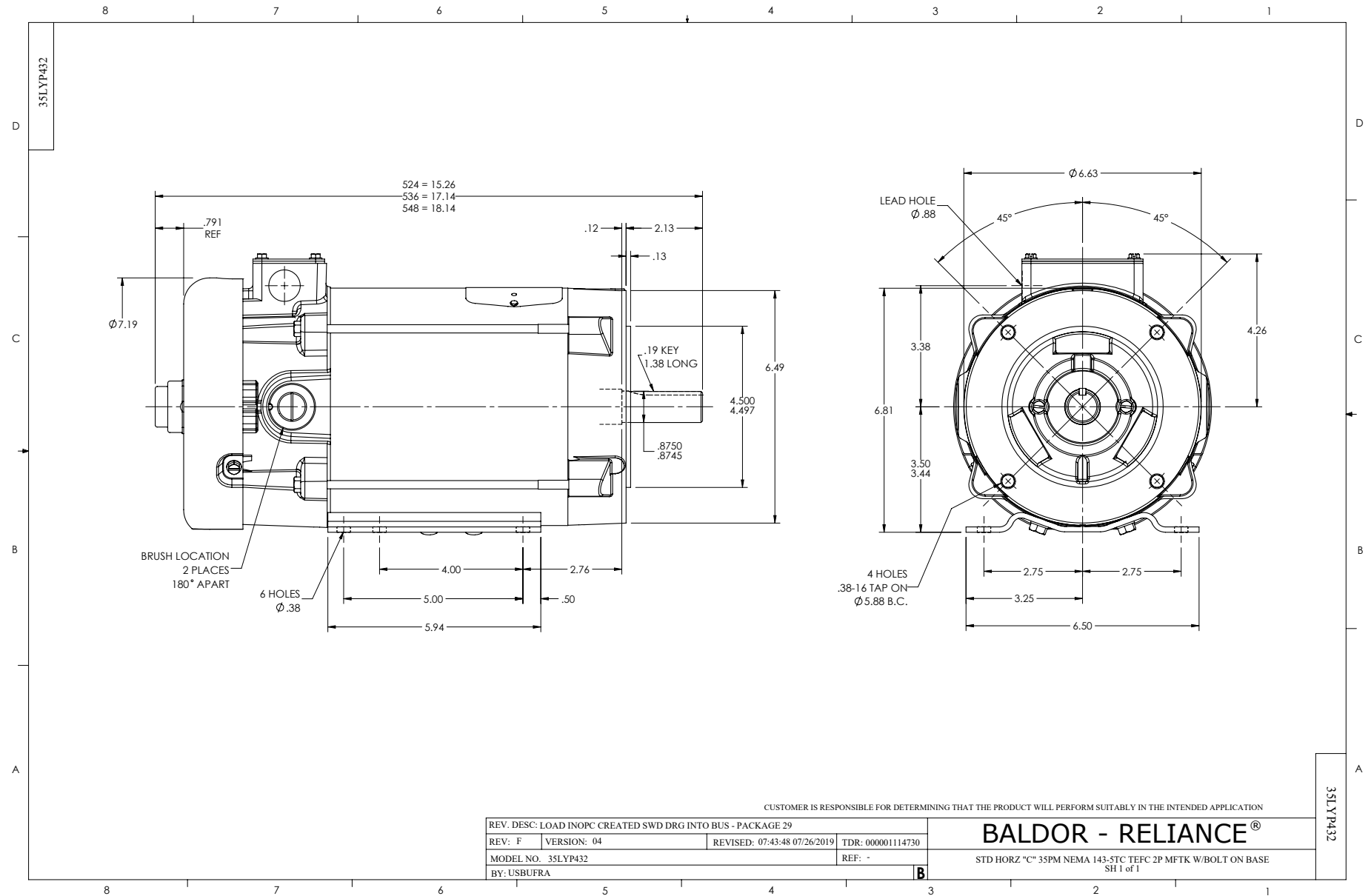
WINDING # 35WGZ164

Typical performance - not guaranteed values.

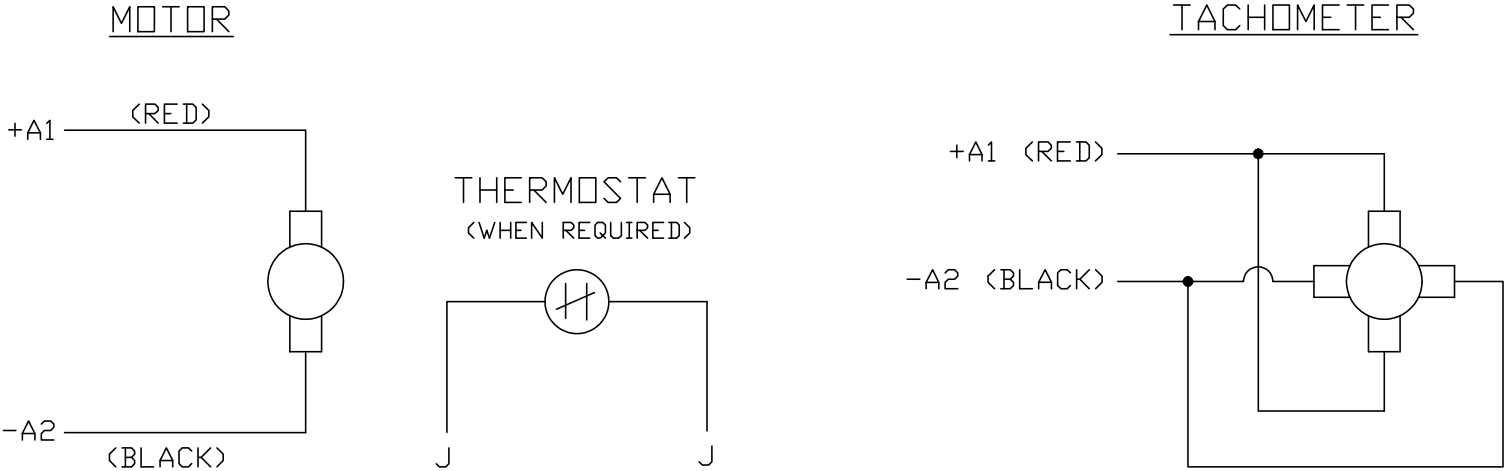
1.5 HP DC 1750 RPM 180 V 3536P

ENCL: TEFC DUTY: CONT CL: F





CD0194



NOTES:

- 1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)
- 2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

|         |   |                                                  |        |                   |                                                      |  |
|---------|---|--------------------------------------------------|--------|-------------------|------------------------------------------------------|--|
| MATL: - |   |                                                  |        |                   | BALDOR ELECTRIC Co.                                  |  |
| REV:    | E | ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &.... |        |                   |                                                      |  |
| CD0194  |   | SCALE: -                                         | BY: CK | REVISED: 07/28/95 | CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS |  |
|         |   | FILE: AAA00004503                                |        | TDR: 0078737      |                                                      |  |

CD0194