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# Customer information packet

## CDPX3575

1.5HP, 1750RPM, DC, 145TC, X3548P, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division -

## Specifications

|                               |                           |
|-------------------------------|---------------------------|
| Armature Voltage              | 180 V                     |
| Base Speed                    | 1750 rpm                  |
| Enclosure                     | XPFC                      |
| Frame                         | 145TC                     |
| Frame Material                | Steel                     |
| Haz Area Class and Group      | CLI GP D; CLII GP F,G     |
| Output Power                  | 1.500 HP                  |
| Agency Approvals              | CSA<br>UL<br>UR           |
| Ambient Temperature           | 40 °C                     |
| Armature Current              | 7.1 a                     |
| Armature Inertia              | 40.456 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               |
| Haz Area Temp Code            | T3C                       |
| Heater Indicator              | No Heater                 |
| Lifting Lugs                  | No Lifting Lugs           |
| Motor Lead Exit               | Ko Box                    |
| Motor Lead Quantity/Wire Size | 2 @ 14 AWG                |
| Motor Lead Termination        | Flying Leads              |
| Motor Standards               | NEMA                      |
| Mounting Arrangement          | F1                        |
| Overall Length                | 19.43 IN                  |
| Product Family                | General Purpose           |
| Pulley End Bearing Type       | Sealed Bearing            |
| Service Factor                | 1.00                      |
| Shaft Diameter                | 0.875 IN                  |
| Shaft Extension Location      | Pulley End                |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AA         |
| Type         | DC         |
| Mech. spec.  | 35P548     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGZ170   |
| Layout       | 35LYP548   |
| Eff. date    | 06-23-2023 |
| CD Diagram   | CD0194     |
| Poles        | 00         |
| Leads        |            |
| Proprietary  | False      |
| Created date | 01-01-0001 |

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

## Nameplate

| NP0727XPSL |              |         |       |     |
|------------|--------------|---------|-------|-----|
| NO.        |              |         |       |     |
| SER.       |              |         |       |     |
| SPEC.      | 35P548Z170G1 |         |       |     |
| CAT.NO.    | CDPX3575     | T. CODE |       | T3C |
| HP         | 1.5          | ENCL    | XPFC  |     |
| RPM        | 1750         |         |       |     |
| FRAME      | 145TC        | TYPE    | 3548P |     |
| ARM V      | 180          | ARM A   | 7.1   |     |
| FLD V      |              | FLD A   |       |     |
| INSUL      | F            | AMB.    | 40    |     |
| DUTY       | CONT         | SUPPLY  | K     |     |
| BRG/DE     | 6205         | BRG/ODE | 6203  |     |
| BRUSHES    | 2/BP5035AB01 |         |       |     |
| BLANK      |              |         |       |     |

**DC Motor Performance Data**

Record # 1413

Typical performance - not guaranteed values

| Winding: 35WGZ170-R010 |              | Type: 3548P                   | Enclosure: XPFC |
|------------------------|--------------|-------------------------------|-----------------|
| Nameplate Data         |              | General Characteristics       |                 |
| Rated Output (HP)      | 1.5          | Armature Resistance<br>@ 25°C | 0.795 $\Omega$  |
| R.P.M.                 | 1750         |                               |                 |
| Armature Volts         | 180          |                               |                 |
| Armature Amps          | 7.1          |                               |                 |
| Field Volts            |              | Armature Inductance           | 11.29 mH        |
| Field Amps             |              |                               |                 |
| 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    | 0.2  | 2.4  | 4.7  | 6.8  | 9    | 11.3 | 13.5 |
| R.P.M.           | 1806 | 1796 | 1770 | 1741 | 1707 | 1671 | 1663 |
| Torque ( LB-FT ) | 0    | 1.5  | 3    | 4.5  | 6    | 7.5  | 9    |

ABB Motors and Mechanical Inc.

WINDING # 35WGZ170

Typical performance - not guaranteed values.

1.5 HP DC 1750 RPM 180 V 3548P

ENCL: XPFC DUTY: CONT CL: F





