

# ABB BALDOR RELIANCE III

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## Customer information packet

### EBM3710T-D

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3738M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                          |
| <b>Frame</b>                          | 213T                                                          |
| <b>Frame Material</b>                 | Steel                                                         |
| <b>Frequency</b>                      | 60.00 Hz                                                      |
| <b>Haz Area Class and Group</b>       | None                                                          |
| <b>Haz Area Division</b>              | Not Applicable                                                |
| <b>Motor Letter Type</b>              | Three Phase                                                   |
| <b>Output @ Frequency</b>             | 7.500 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                             |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                              |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                            |
| <b>Agency Approvals</b>               | CE<br>CURUSEEV<br>NEMA PREMIUM<br>UKCA<br>WEEE                |
| <b>Ambient Temperature</b>            | 40 °C                                                         |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                              |
| <b>Auxiliary Box Lead Termination</b> | None                                                          |
| <b>Base Indicator</b>                 | Rigid                                                         |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                       |
| <b>Blower</b>                         | None                                                          |
| <b>Current @ Voltage</b>              | 9.500 A @ 460.0 V<br>20.000 A @ 208.0 V<br>19.000 A @ 230.0 V |
| <b>Design Code</b>                    | A                                                             |
| <b>Drip Cover</b>                     | No Drip Cover                                                 |
| <b>Duty Rating</b>                    | CONT                                                          |
| <b>Efficiency @ 100% Load</b>         | 91.7 %                                                        |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                     |
| <b>Feedback Device</b>                | NO FEEDBACK                                                   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | E          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37M908     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGL864   |
| <b>Layout</b>       | 37LYM908   |
| <b>Eff. date</b>    | 07-18-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 02-01-2021 |

|                               |                       |
|-------------------------------|-----------------------|
| Front Shaft Indicator         | None                  |
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 9.5 a                 |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | J                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3738M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 25.37 IN              |
| Power Factor                  | 80                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.375 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

| NP2934L        |                      |      |      |     |   |    |   |  |  |
|----------------|----------------------|------|------|-----|---|----|---|--|--|
| CAT.NO.        | EBM3710T-D           |      |      |     |   |    |   |  |  |
| SPEC.          | 37M908L864G1         |      |      |     |   |    |   |  |  |
| HP             | 7.5/5.59KW IP44      |      |      |     |   |    |   |  |  |
| VOLTS          | 230/460 IC411        |      |      |     |   |    |   |  |  |
| AMP            | 19/9.5 77KG          |      |      |     |   |    |   |  |  |
| R.P.M. (1/MIN) | 1770                 |      |      |     |   |    |   |  |  |
| FRAME          | 213T                 |      | HZ   | 60  |   | PH | 3 |  |  |
| SER.F.         | 1.15                 | CODE | J    | DES | A | CL | F |  |  |
| NEMA-NOM-EFF   | 91.7                 | PF   | 80   |     |   |    |   |  |  |
| RATING         | 40C AMB-CONT         |      |      |     |   |    |   |  |  |
| CC             | 010A                 |      |      |     |   |    |   |  |  |
| DE             | 6307                 | ODE  | 6206 |     |   |    |   |  |  |
| ENCL           | TEFC                 | SN   |      |     |   |    |   |  |  |
|                | IE3-92(75%)91.4(50%) |      |      |     |   |    |   |  |  |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA390581     | SA 37M908L864G1                          | 1.000 ea |
| RA381033     | RA 37M908L864G1                          | 1.000 ea |
| 37FN3002C01  | EXFN, PLASTIC, 6.00 OD, 1.155 ID         | 1.000 ea |
| HW3200A01    | 3/8-16X3/4 EYEBOLT WELDED F/S            | 1.000 ea |
| 37CB3006A12  | 37 CB 1.38 DIA @ 6:00, .88 DIA @ 12:00   | 1.000 ea |
| 37GS1000SP   | GASKET, CONDUIT BOX STD., .06 THICK LEXI | 1.000 ea |
| 51XW2520A12  | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 ea |
| 11XW1032G06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 07EP1901A07  | FREP, 07FH1002A09 ASS'Y ALSO REQUIRED    | 1.000 ea |
| HW4500A01    | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW5100A06    | W2420-025 WVY WSHR (WB)                  | 1.000 ea |
| 37EP3100A01  | PUEP ASSEMBLY - ROUTING PUPROSES         | 1.000 ea |
| HW4500A01    | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| XY3118A12    | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 ea |
| BR2004E01    | BRK HUB,1.12 DIA JRNL W/.25 KEY (032416) | 1.000 ea |
| WD4006A01    | WIRE JOINT,T&B RB-4 OR RB-44             | 1.000 ea |
| HA6A33A01    | ADAPTER 182-4T FOR D-SERIES BRK (024448) | 1.000 ea |
| 84XN5013J16S | 1/2-13 X 1 LOW HEAD HEX SOC HD           | 4.000 ea |
| 51XB1214A20  | 12-14X1.25 HXWSSLD SERTYB                | 1.000 ea |
| 07FH1002A09  | FN CVR, 07EP1901A07 ASLO REQUIRED        | 1.000 ea |
| WD5133A26    | 10" - .50 FLEX TUBING ASSY W/2 - 90 DEG  | 0.833 ea |
| WD4100A02    | DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL  | 1.000 ea |
| 10XN3118A52  | 5/16-18 X 3-1/4 HEX HEAD CAP SCR,GR.5,Z/ | 4.000 ea |
| HW1001A31    | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 ea |
| HA1103A13    | #4 X 4 SCREEN FOR FAN CVR 07FH1002 (MR21 | 1.000 ea |
| 13XT0832A07  | 8-32X7/16 TYP 23 PAN HD SLT DX           | 4.000 ea |
| 37CB4516     | LIPPED LID FOR 37 FRAME NEC KOBX         | 1.000 ea |
| 37GS1008     | 37 GS FOR CB LID - LEXIDE                | 1.000 ea |
| 51XW0832A07  | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW2501F21    | KEY, 5/16 SQ X 2.375                     | 1.000 ea |
| HA7000A02    | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea |

|             |                                          |          |
|-------------|------------------------------------------|----------|
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1419      | CONNECTION LABEL                         | 1.000 ea |
| MJ1000A02   | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| LB1624      | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| MG1000N49   | MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,   | 0.028 ga |
| HA3104A17   | 5/16-18X13.250 T-BLT/OHIO                | 4.000 ea |
| 46BK0700B01 | DBSC-V-35-MA-230/460 VAC                 | 1.000 ea |
| LC0005      | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| MN416A01    | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| NP2934L     | ALUM SUPER-E UL CE UKCA WEEE CC PREM     | 1.000 ea |
| 37PA1067    | PALLET PACK GROUP, PK1156A07, PK1900A06  | 1.000 ea |

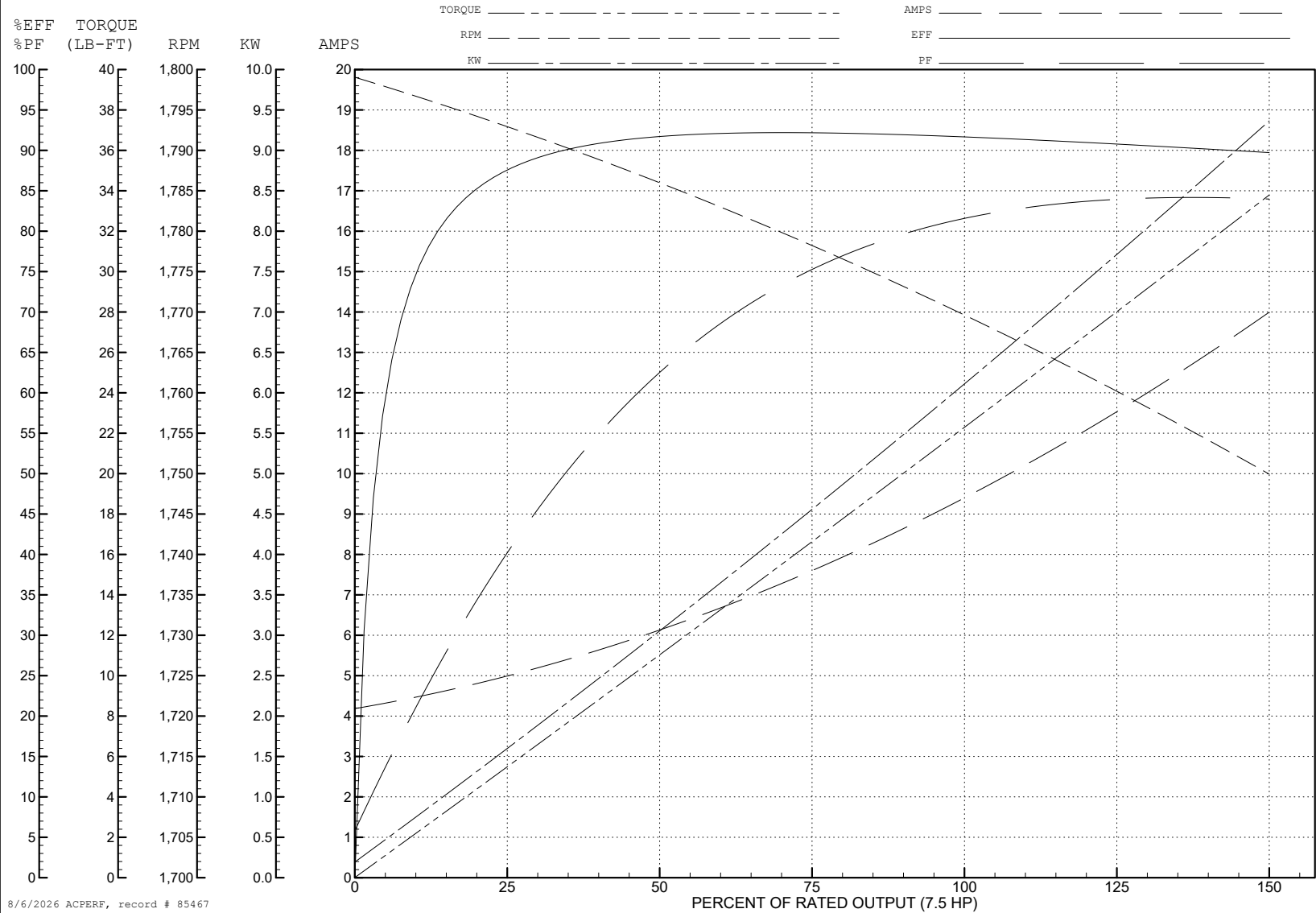
ABB Motors and Mechanical Inc.

WINDING # 37WGL864

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3738M

TORQUES (LB-FT): PO=69.8 PU=31.5 LR=41 LRA=70.7







CD2120

### WIRING CONNECTIONS (1 PHASE VAC)

|               | POWER LINE A | POWER LINE B | CAP TOGETHER | CAP ALONE                    |
|---------------|--------------|--------------|--------------|------------------------------|
| AC LOW VOLT.  | B1           | B2           | B3 & B5      | B4                           |
| AC HIGH VOLT. | B1 & B5      | B2           | ---          | B3 CAP ALONE<br>B4 CAP ALONE |
| DC VOLT.      | B1           | B2           | B3 & B5      | B4                           |

B1 WHITE  
 B2 BLACK  
 B3 GRAY  
 B4 BLUE  
 B5 RED

CD2120

|                      |             |                                |                                  |  |
|----------------------|-------------|--------------------------------|----------------------------------|--|
| REV. DESC: NEW       |             |                                | <b>BALDOR • DODGE • RELIANCE</b> |  |
| REV. LTR: -          | VERSION: 00 | TDR: 000000741785              |                                  |  |
| FILE: \CKA\00037\282 |             | REVISED: 12: 28: 11 04/12/2012 | D-SERIES MOTOR BRAKE 5LD AC\DC   |  |
| MTL: -               |             | BY: CKRONSO                    | SH 1 of 1                        |  |