

# ABB BALDOR RELIANCE III

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## Customer information packet

### CSPM3708T-G

5HP, 1165RPM, 3PH, 60HZ, 215TC, 3754M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| <b>Enclosure</b>                      | TEFC                                    |
| <b>Frame</b>                          | 215TC                                   |
| <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>             | 5.000 HP @ 60 HZ                        |
| <b>Phase</b>                          | 3                                       |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                        |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ      |
| <b>Agency Approvals</b>               | WEEE<br>NEMA PREMIUM                    |
| <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>              | 14.800 A @ 230.0 V<br>7.400 A @ 460.0 V |
| <b>Design Code</b>                    | A                                       |
| <b>Drip Cover</b>                     | No Drip Cover                           |
| <b>Duty Rating</b>                    | CONT                                    |
| <b>Efficiency @ 100% Load</b>         | 90.2 %                                  |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated               |
| <b>Feedback Device</b>                | NO FEEDBACK                             |
| <b>Front Shaft Indicator</b>          | None                                    |
| <b>Heater Indicator</b>               | No Heater                               |
| <b>High Voltage Full Load Amps</b>    | 7.4 a                                   |
| <b>Insulation Class</b>               | F                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | A          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37T745     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGS405   |
| <b>Layout</b>       | 37LYT745   |
| <b>Eff. date</b>    | 11-19-2025 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 04-04-2025 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Inverter Code</b>                 | <b>Inverter Duty</b>  |
| <b>KVA Code</b>                      | L                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | Locked Bearing        |
| <b>Max Speed</b>                     | 1800 rpm              |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 14 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 3754M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 6                     |
| <b>Overall Length</b>                | 21.25 IN              |
| <b>Power Factor</b>                  | 70                    |
| <b>Product Family</b>                | General Purpose       |
| <b>Pulley End Bearing Type</b>       | Ball                  |
| <b>Pulley Face Code</b>              | C-Face                |
| <b>Pulley Shaft Indicator</b>        | Standard              |
| <b>Rodent Screen</b>                 | None                  |
| <b>RoHS Status</b>                   | ROHS COMPLIANT        |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.375 IN              |
| <b>Shaft Ground Indicator</b>        | Shaft Grounding       |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | No Slinger            |
| <b>Speed</b>                         | 1165 rpm              |
| <b>Speed Code</b>                    | Single Speed          |
| <b>Starting Method</b>               | Direct on line        |
| <b>Thermal Device - Bearing</b>      | None                  |
| <b>Thermal Device - Winding</b>      | None                  |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor   |
| <b>Winding Thermal 1</b>             | None                  |
| <b>Winding Thermal 2</b>             | None                  |

**Nameplate**

| NP4423A01A01L |               |         |          |   |      |               |       |      |     |    |       |  |  |
|---------------|---------------|---------|----------|---|------|---------------|-------|------|-----|----|-------|--|--|
| CAT #         | CSPM3708T-G   |         |          |   |      | WGT           | 149   | LBS  |     |    |       |  |  |
| SPEC          | 37T745S405    |         |          |   |      | ENCL          | TEFC  |      |     |    |       |  |  |
| SER #         |               |         |          |   |      | CC            | 010A  | IP   | 54  |    |       |  |  |
| HP            | 5             | MAG CUR |          |   |      | 8/4           |       |      |     |    |       |  |  |
| VOLTS         | 230/460       |         |          |   |      | NEMA NOM. EFF |       |      |     |    | 90.2  |  |  |
| AMPS          | 14.8/7.4      |         |          |   |      | PF            | 70    |      |     |    |       |  |  |
| RATING        | 40C AMB-CONT  |         |          |   |      |               |       |      |     |    |       |  |  |
| RPM           | 1165          |         |          |   |      | MAX RPM       |       | 1800 |     |    |       |  |  |
| FRAME         | 215TC         | HZ      | 60       |   | CODE | L             | CLASS |      | H   |    |       |  |  |
| SER.F.        | 1.25          | SF AMP  | 17.8/8.9 |   |      |               | PH    | 3    | DES | A  |       |  |  |
| DE            | 6307          |         | ODE      |   | 6206 |               |       |      |     |    |       |  |  |
| LUBRICATION   | POLYREX EM    |         |          |   |      |               |       |      |     |    |       |  |  |
| ID LOGO       | INVERTER TYPE |         |          |   | VPWM |               | CHP   | 60   | TO  | 90 | 1.5:1 |  |  |
| ID LOGO       | WK2           | 1.34    | CT       | 6 | TO   | 60            | 10:1  |      |     |    |       |  |  |
| ID LOGO       | SL HZ         | 1.75    | VT       | 3 | TO   | 60            | 20:1  |      |     |    |       |  |  |
|               |               |         |          |   |      |               |       |      |     |    |       |  |  |
|               |               |         |          |   |      |               |       |      |     |    |       |  |  |
|               |               |         |          |   |      |               |       |      |     |    |       |  |  |
|               |               |         |          |   |      |               |       |      |     |    |       |  |  |
|               |               |         |          |   |      |               | QR    |      |     |    |       |  |  |
| YR            |               |         |          |   |      |               |       |      |     |    |       |  |  |

**AC Induction Motor Performance Data**

Record # 112290

Typical performance - not guaranteed values

| Winding: 37WGS405-R010 |    |          | Type: 3754M                              |                     | Enclosure: TEFC         |                       |
|------------------------|----|----------|------------------------------------------|---------------------|-------------------------|-----------------------|
| Nameplate Data         |    |          | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |                       |
| Rated Output (HP)      |    | 5        | Full Load Torque                         |                     | 22.5 LB-FT              |                       |
| Volts                  |    | 230/460  | Start Configuration                      |                     | direct on line          |                       |
| Full Load Amps         |    | 14.8/7.4 | Breakdown Torque                         |                     | 86.3 LB-FT              |                       |
| R.P.M.                 |    | 1165     | Pull-up Torque                           |                     | 46.4 LB-FT              |                       |
| Hz                     | 60 | Phase    | 3                                        | Locked-rotor Torque |                         | 58.5 LB-FT            |
| NEMA Design Code       |    | A        | KVA Code                                 |                     | L                       | Starting Current      |
| Service Factor (S.F.)  |    | 1.25     | No-load Current                          |                     | 4.01 A                  |                       |
| NEMA Nom. Eff.         |    | 90.2     | Power Factor                             |                     | 70                      | Line-line Res. @ 25°C |
| Rating - Duty          |    | 40C      | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       |
| S.F. Amps              |    | 17.8/8.9 | Temp. Rise @ S.F. Load                   |                     | 74°C                    |                       |
|                        |    |          | Locked-rotor Power Factor                |                     | 21.4                    |                       |
|                        |    |          | Rotor inertia                            |                     | 1.34 lb-ft²             |                       |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 31   | 51   | 63   | 70   | 73   | 76   | 73   |
| Efficiency      | 85.5 | 89.9 | 91   | 90.3 | 89.7 | 88.1 | 89.7 |
| Speed           | 1191 | 1184 | 1175 | 1166 | 1156 | 1145 | 1156 |
| Line amperes    | 4.32 | 5.12 | 6.16 | 7.44 | 8.88 | 10.5 | 8.88 |

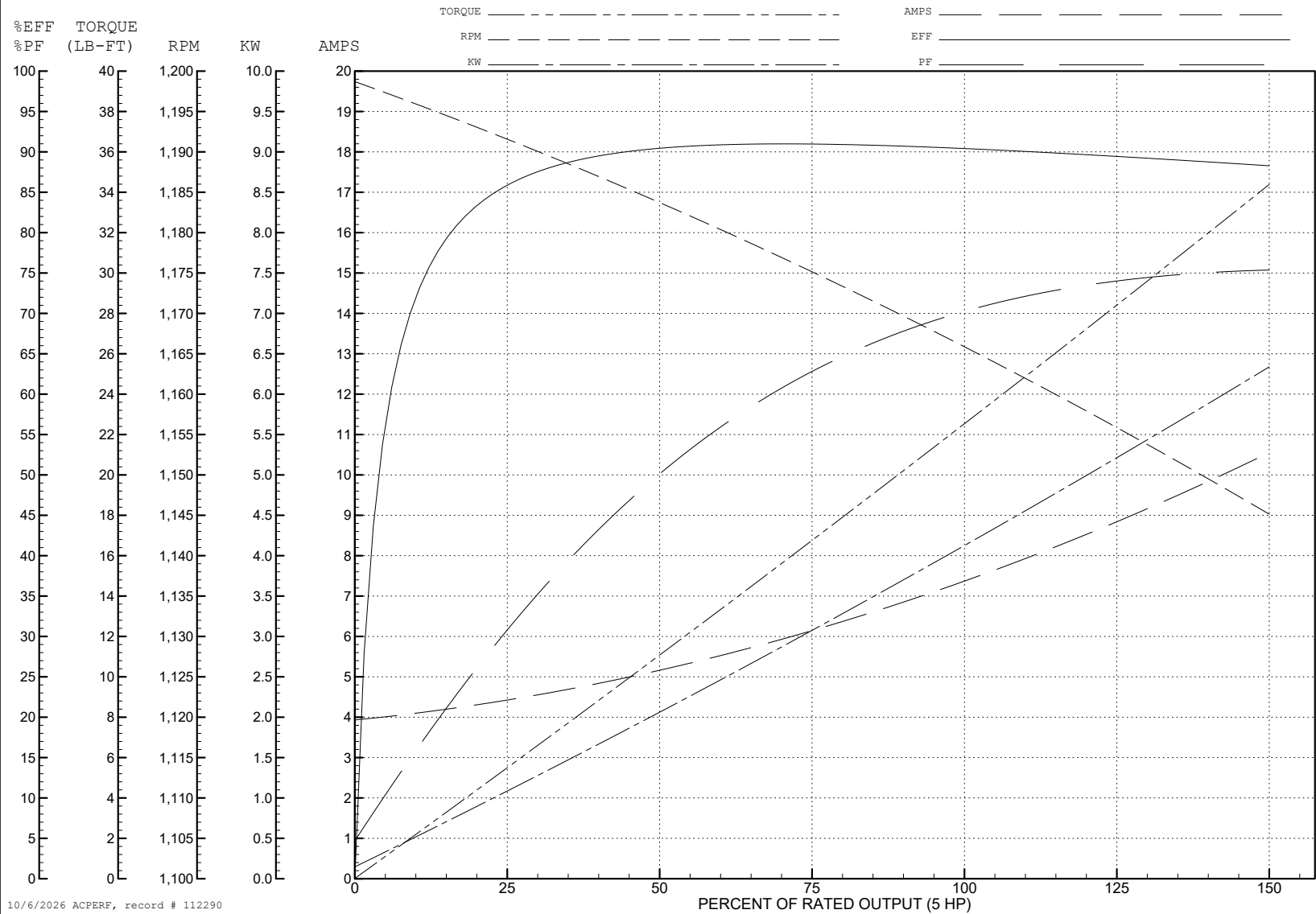
ABB Motors and Mechanical Inc.

WINDING # 37WGS405

Typical performance - not guaranteed values.

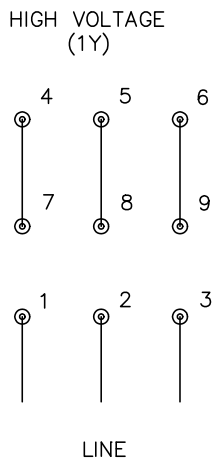
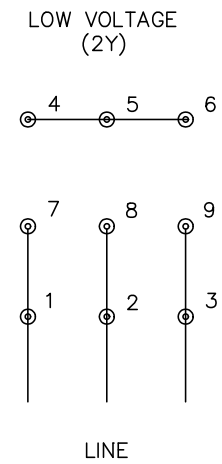
5 HP 3 PH 60 HZ 1165 RPM 460 V 3754M

TORQUES (LB-FT): PO=86.3 PU=46.4 LR=58.5 LRA=57.8





CD0005



- 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.

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005