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# Customer information packet

## SPM3910T

15HP, 1770RPM, 3PH, 60HZ, 254T, 3958M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | TEFC                                     |
| Frame                          | 254T                                     |
| 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             | 15.000 HP @ 60 HZ                        |
| Phase                          | 3                                        |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                         |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| Agency Approvals               | CURUSEEV<br>NEMA PREMIUM<br>WEEE         |
| Ambient Temperature            | 40 °C                                    |
| Auxiliary Box                  | NO AUXILLARY BOX                         |
| Auxiliary Box Lead Termination | None                                     |
| Base Indicator                 | Rigid                                    |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                  |
| Blower                         | None                                     |
| Current @ Voltage              | 18.300 A @ 460.0 V<br>36.600 A @ 230.0 V |
| Design Code                    | A                                        |
| Drip Cover                     | No Drip Cover                            |
| Duty Rating                    | CONT                                     |
| Efficiency @ 100% Load         | 93.6 %                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                |
| Feedback Device                | NO FEEDBACK                              |
| Front Shaft Indicator          | None                                     |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 18.3 a                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  | 39E762     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 39WGY450   |
| Layout       | 39LYE762   |
| Eff. date    | 12-18-2025 |
| CD Diagram   | CD0180     |
| Poles        | 04         |
| Leads        | 9#12 Y     |
| Proprietary  | False      |
| Created date | 10-24-2023 |

|                               |                       |
|-------------------------------|-----------------------|
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Duty         |
| KVA Code                      | J                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Max Speed                     | 2700 rpm              |
| Motor Lead Quantity/Wire Size | 9 @ 12 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3958M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 24.56 IN              |
| Power Factor                  | 82                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.625 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

| NP4423A01A05L |               |        |    |           |      |               |      |      |       |     |      |  |       |
|---------------|---------------|--------|----|-----------|------|---------------|------|------|-------|-----|------|--|-------|
| CAT #         | SPM3910T      |        |    |           |      | WGT           | 290  |      | LBS   |     |      |  |       |
| SPEC          | 39E762Y450    |        |    |           |      | ENCL          | TEFC |      |       |     |      |  |       |
| SER #         |               |        |    |           |      | CC            | 010A |      | IP    | 54  |      |  |       |
| HP            | 15            |        |    | MAG CUR   |      | 15.2/7.6      |      |      |       |     |      |  |       |
| VOLTS         | 230/460       |        |    |           |      | NEMA NOM. EFF |      |      |       |     | 93.6 |  |       |
| AMPS          | 36.6/18.3     |        |    |           |      |               | PF   | 82   |       |     |      |  |       |
| RATING        | 40C AMB-CONT  |        |    |           |      |               |      |      |       |     |      |  |       |
| RPM           | 1770          |        |    |           |      | MAX RPM       |      | 2700 |       |     |      |  |       |
| FRAME         | 254T          |        | HZ | 60        |      | CODE          | J    |      | CLASS | F   |      |  |       |
| SER.F.        | 1.25          | SF AMP |    | 45.4/22.7 |      |               |      | PH   | 3     | DES | A    |  |       |
| DE            | 6309          |        |    | ODE       |      | 6208          |      |      |       |     |      |  |       |
| LUBRICATION   | POLYREX EM    |        |    |           |      |               |      |      |       |     |      |  |       |
| ID LOGO       | INVERTER TYPE |        |    |           | VPWM |               | CHP  | 60   |       | TO  | 90   |  | 1.5:1 |
| ID LOGO       | WK2           | 2.54   |    | CT        | 6    | TO            | 60   | 10:1 |       |     |      |  |       |
| ID LOGO       | SL HZ         | 1      | VT | 3         | TO   | 60            | 20:1 |      |       |     |      |  |       |
|               |               |        |    |           |      |               |      |      |       |     |      |  |       |
|               |               |        |    |           |      |               |      |      |       |     |      |  |       |
|               |               |        |    |           |      |               |      |      |       |     |      |  |       |
|               |               |        |    |           |      |               |      |      |       |     |      |  |       |
|               |               |        |    |           |      |               |      |      |       |     |      |  |       |
|               |               |        |    |           |      |               | QR   |      |       |     |      |  |       |
| YR            |               |        |    |           |      |               |      |      |       |     |      |  |       |

## AC Induction Motor Performance Data

Record # 114778

Typical performance - not guaranteed values

| Winding: 39WGY450-R003 |  |                   | Type: 3958M |                                          | Enclosure: TEFC |                |
|------------------------|--|-------------------|-------------|------------------------------------------|-----------------|----------------|
| Nameplate Data         |  |                   |             | 460 V, 60 Hz:<br>High Voltage Connection |                 |                |
| Rated Output (HP)      |  | 15                |             | Full Load Torque                         |                 | 44.37 LB-FT    |
| Volts                  |  | 230/460           |             | Start Configuration                      |                 | direct on line |
| Full Load Amps         |  | 36.6/18.3         |             | Breakdown Torque                         |                 | 216 LB-FT      |
| R.P.M.                 |  | 1770              |             | Pull-up Torque                           |                 | 102 LB-FT      |
| Hz                     |  | 60 Phase          |             | Locked-rotor Torque                      |                 | 128 LB-FT      |
| NEMA Design Code       |  | A KVA Code        |             | Starting Current                         |                 | 174 A          |
| Service Factor (S.F.)  |  | 1.25              |             | No-load Current                          |                 | 9.46 A         |
| NEMA Nom. Eff.         |  | 93.6 Power Factor |             | Line-line Res. @ 25°C                    |                 | 0.41963 Ω      |
| Rating - Duty          |  | 40C AMB-CONT      |             | Temp. Rise @ Rated Load                  |                 | 23°C           |
| S.F. Amps              |  | 45.4/22.7         |             | Temp. Rise @ S.F. Load                   |                 | 30°C           |
|                        |  |                   |             | Locked-rotor Power Factor                |                 | 31.4           |
|                        |  |                   |             | Rotor inertia                            |                 | 2.54 lb-ft²    |

## Load Characteristics 460 V, 60 Hz, 15 HP

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 39     | 61     | 73     | 79     | 83     | 85     | 83   |
| Efficiency      | 88.4   | 92.8   | 93.9   | 94.1   | 93.9   | 93.5   | 93.9 |
| Speed           | 1795.9 | 1790.9 | 1786.2 | 1781.1 | 1776.1 | 1770.5 | 1776 |
| Line amperes    | 10.4   | 12.6   | 15.4   | 18.8   | 22.5   | 26.4   | 22.5 |

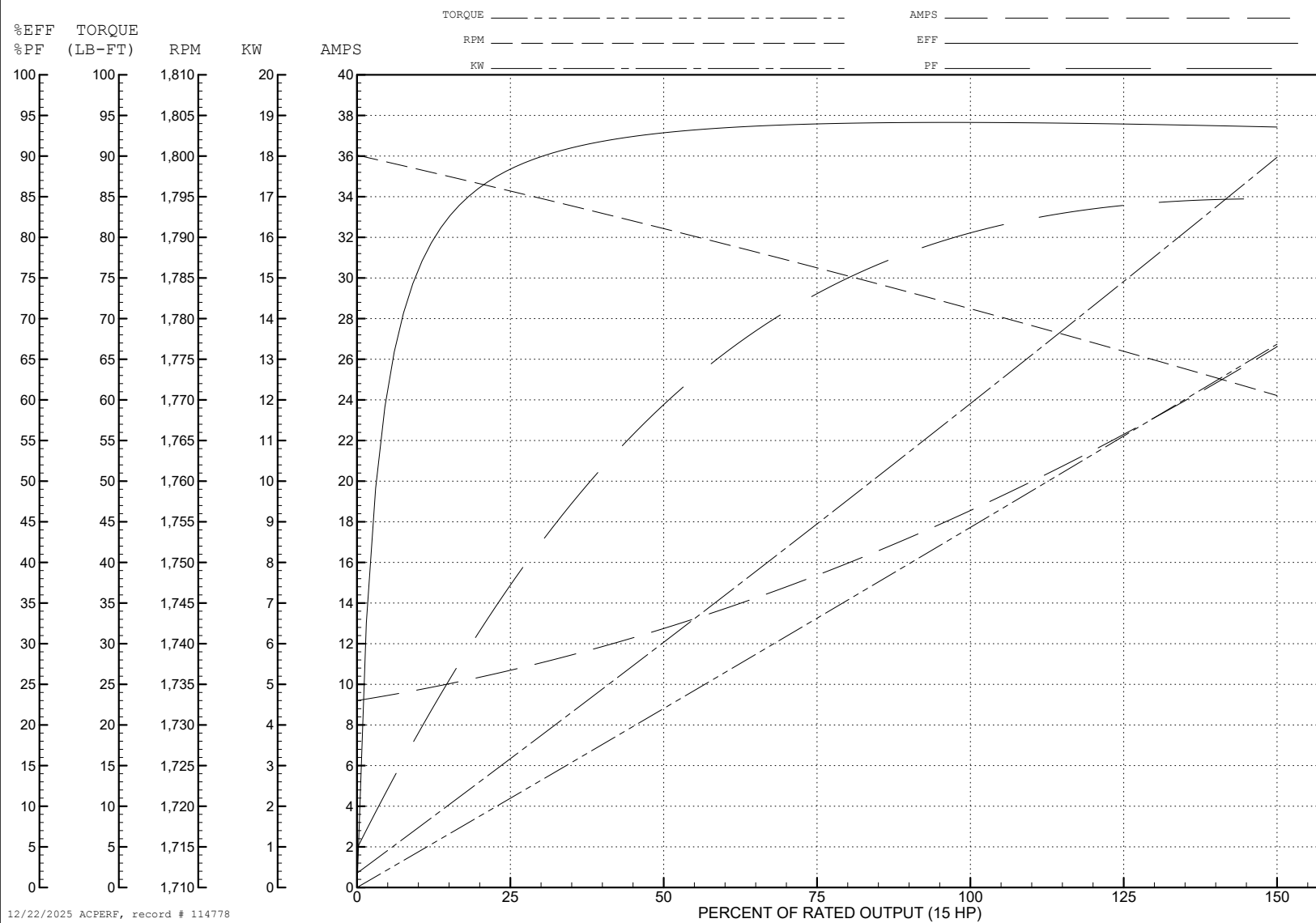
ABB Motors and Mechanical Inc.

WINDING # 39WGY450

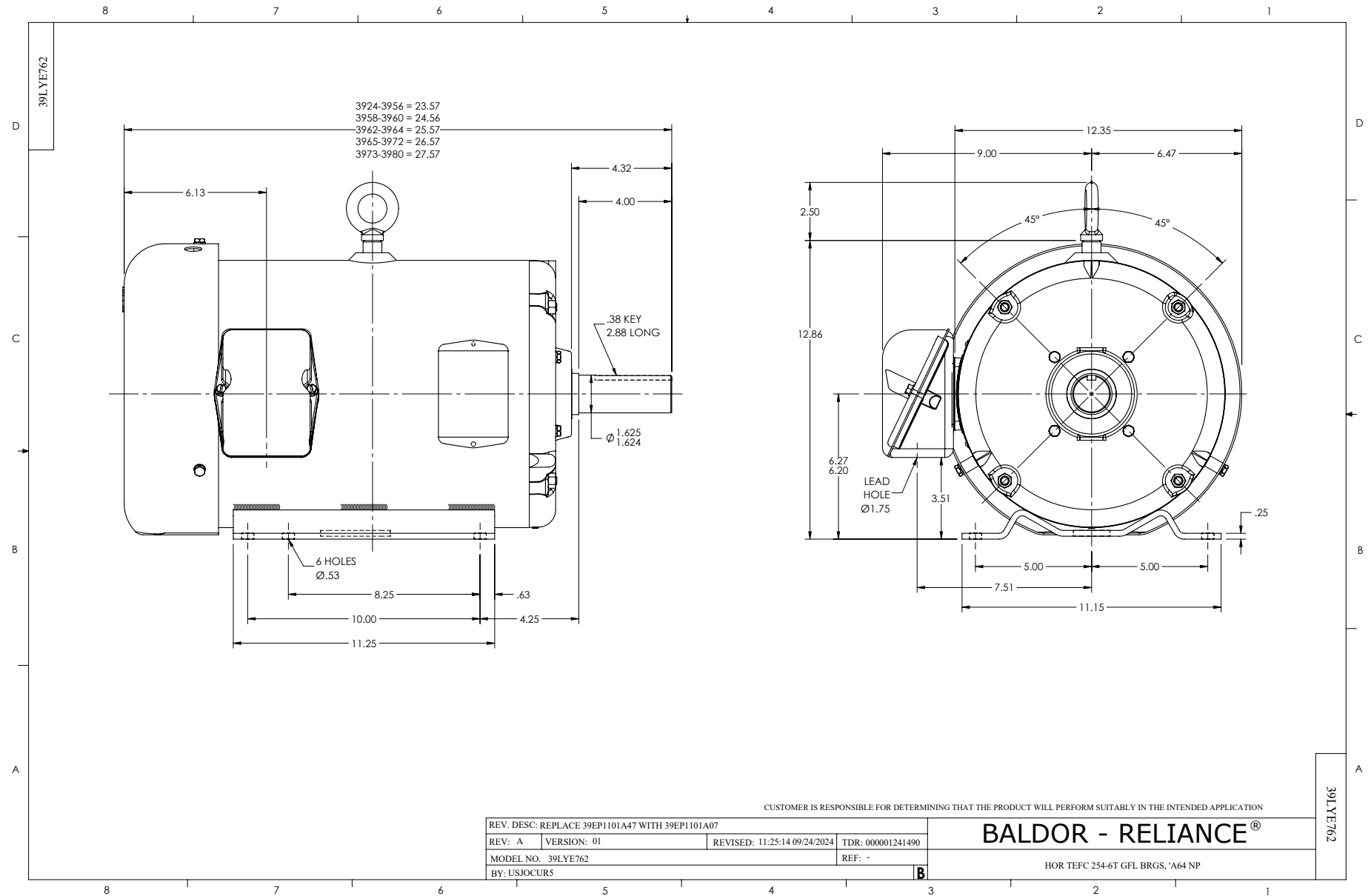
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1770 RPM 460 V 3958M

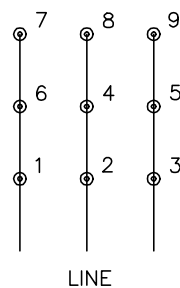
TORQUES (LB-FT): PO=216 PU=102 LR=128 LRA=174



12/22/2025 ACPERF, record # 114778



CD0180

LOW VOLTAGE  
(2D)HIGH VOLTAGE  
(1D)

## 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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1