ABB BALDOR RELIANCE

# Customer information packet

## CESSWDM23934T

20HP, 1765RPM, 3PH, 60HZ, 256TC, 3960M, TEFC, F
Class -
Division - Not Applicable

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11/14/2026 7:37:23 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 256TC |
| **Frame Material** | Stainless Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 20.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **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** | 24.000 A @ 460.0 V |
| | 48.000 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 93.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 24.0 a |
| **Insulation Class** | H |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |

## Part Detail

| | |
|---|---|
| **Revision** | R |
| **Type** | AC |
| **Mech. spec.** | 39E119 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 39WGY400 |
| **Layout** | 39LYE119 |
| **Eff. date** | 11-18-2025 |
| **CD Diagram** | CD0180 |
| **Poles** | 04 |
| **Leads** | 9#12 |
| **Proprietary** | False |
| **Created date** | 01-30-2018 |

| | |
|---|---|
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 12 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3960M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 24.67 IN |
| **Power Factor** | 84 |
| **Product Family** | Wash Down All Stainless Steel |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 1.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1765 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**

| NP1953D02 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CESSWDM23934T | | | | | | | |
| **SPEC.** | 39E119Y400G1 | | | | | | | |
| **HP** | 20 | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **AMP** | 48/24 | | | | | | | |
| **RPM** | 1765 | | | | | | | |
| **FRAME** | 256TC | **HZ** | 60 | | | **PH** | 3 | |
| **SER.F.** | 1.00 | **CODE** | J | **DES** | A | **CLASS** | H | |
| **NEMA-NOM-EFF** | 93 | **PF** | 84 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | 010A | **USABLE AT 208V** | | | | N/A | | |
| **DE** | 6309 | **ODE** | 6208 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |
| | 2:1 CT/10:1 VT | | | | | | | |

**AC Induction Motor Performance Data**
Record # 69070
Typical performance - not guaranteed values

| **Winding:** 39WGY400-R001 | **Type:** 3960M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 20 | **Full Load Torque** | 59.38 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 48/24 | **Breakdown Torque** | 226 LB-FT |
| **R.P.M.** | | | 1765 | **Pull-up Torque** | 109 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 139 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | J | **Starting Current** | 188 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 9.7 A |
| **NEMA Nom. Eff.** | 93 | **Power Factor** | 84 | **Line-line Res. @ 25ºC** | 0.371 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 92°C |
| | | | | **Locked-rotor Power Factor** | 30.4 |

**Load Characteristics 460 V, 60 Hz, 20 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 47 | 69 | 79 | 84 | 86 | 87 |
| **Efficiency** | 89.8 | 93.1 | 93.5 | 93.1 | 92.4 | 91.3 |
| **Speed** | 1792 | 1784.5 | 1776.1 | 1767.4 | 1758.1 | 1747.4 |
| **Line amperes** | 11.2 | 14.5 | 18.9 | 23.9 | 29.3 | 35.2 |

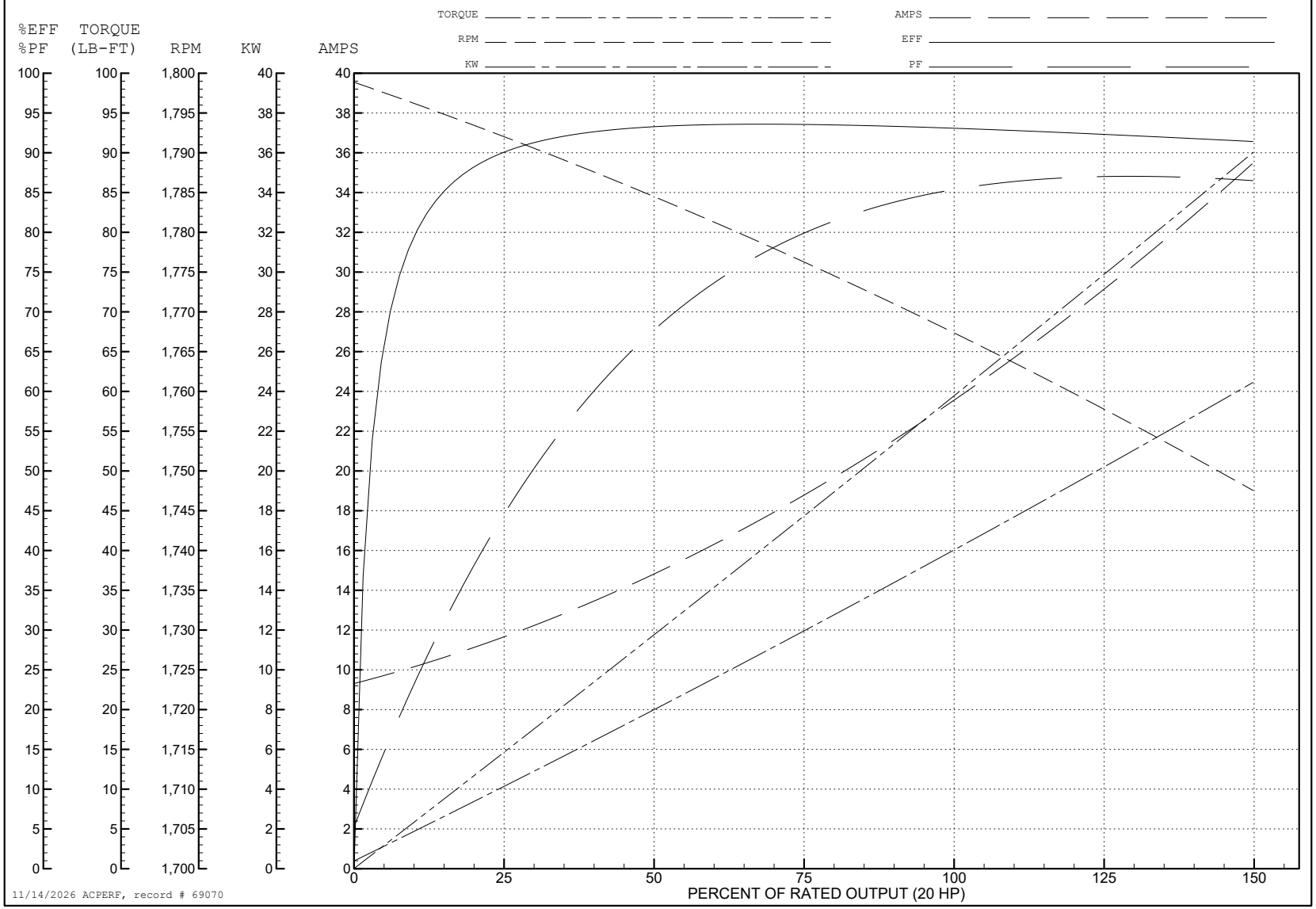
ABB Motors and Mechanical Inc.

WINDING # 39WGY400

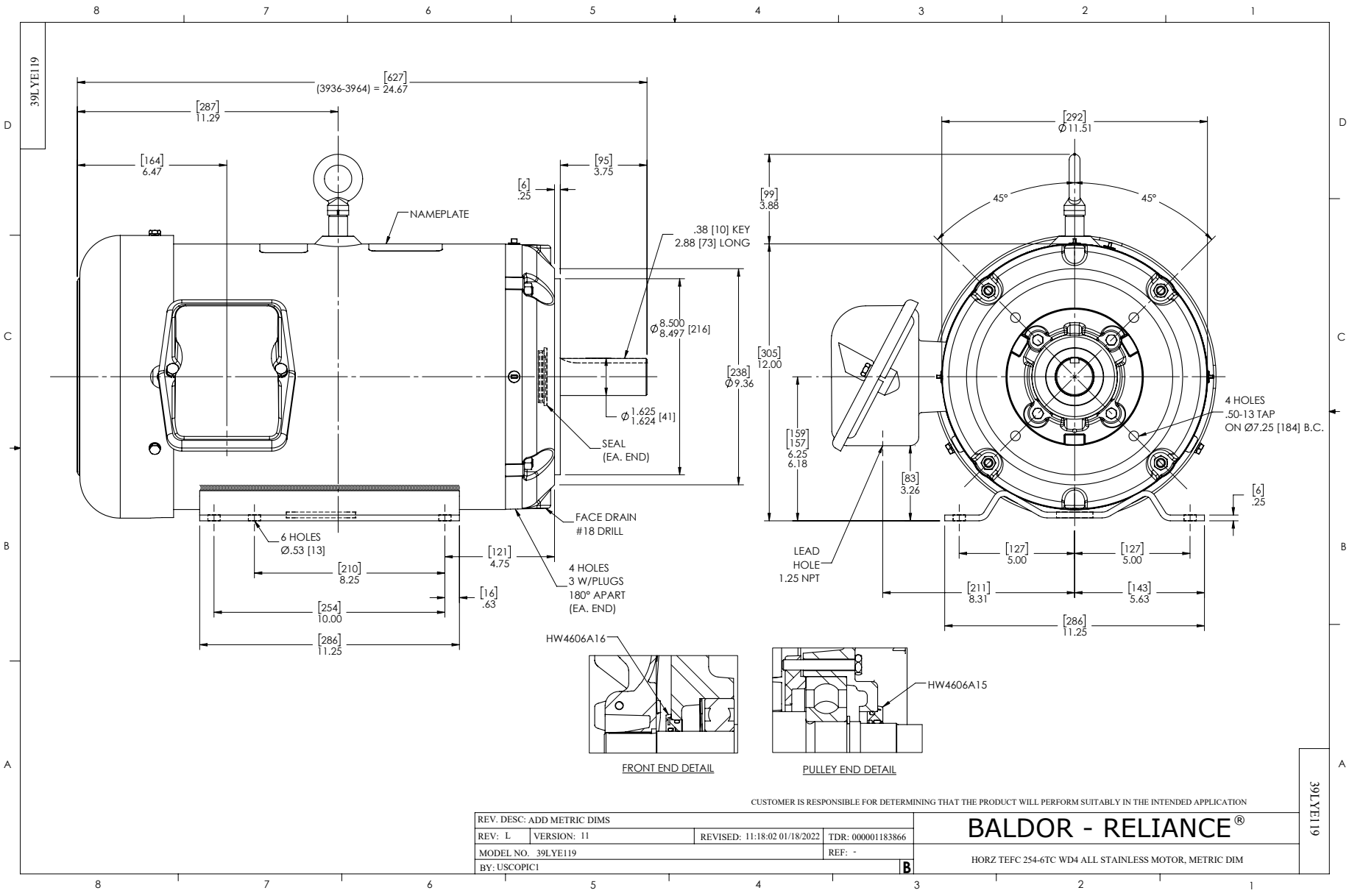
20 HP 3 PH 60 HZ 1765 RPM 460 V 3960M

Typical performance - not guaranteed values.

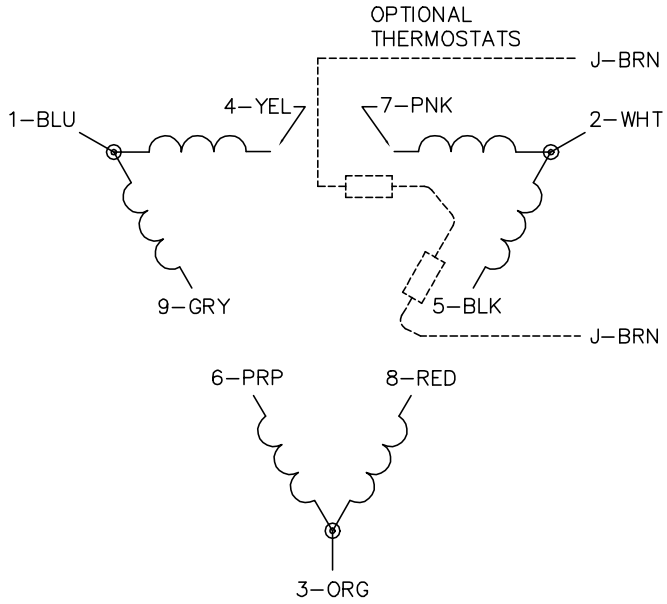
TORQUES(LB-FT): PO=226 PU=109 LR=139 LRA=188

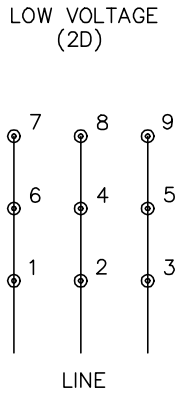


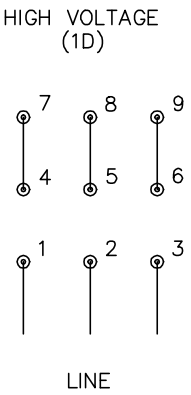

11/14/2026 ACPERF, record # 69070


39LYE119
[627]
(3936-3964) = 24.67
[287]
11.29
[164]
6.47
[95]
3.75
[6]
.25
NAMEPLATE
.38 [10] KEY
2.88 [73] LONG
Ø 8.500
8.497 [216]
Ø 1.625
1.624 [41]
SEAL
(EA. END)
[238]
Ø9.36
FACE DRAIN
#18 DRILL
6 HOLES
Ø.53 [13]
[121]
4.75
[210]
8.25
[16]
.63
[254]
10.00
[286]
11.25
4 HOLES
3 W/PLUGS
180° APART
(EA. END)
[292]
Ø11.51
45°
45°
[99]
3.88
[305]
12.00
4 HOLES
.50-13 TAP
ON Ø7.25 [184] B.C.
[159]
[157]
6.25
6.18
[83]
3.26
[6]
.25
LEAD
HOLE
1.25 NPT
[127]
5.00
[127]
5.00
[211]
8.31
[143]
5.63
[286]
11.25
HW4606A16
HW4606A15
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD METRIC DIMS
REV: L
VERSION: 11
REVISED: 11:18:02 01/18/2022
TDR: 000001183866
MODEL NO. 39LYE119
REF: -
BY: USCOPIC1
B
BALDOR - RELIANCE®
HORZ TEFC 254-6TC WD4 ALL STAINLESS MOTOR, METRIC DIM
39LYE119

CD0180




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: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1