ABB BALDOR RELIANCE

Customer information packet

CESSWDM23933T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 3956M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Stainless 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
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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	35.000 A @ 230.0 V
	38.000 A @ 208.0 V
	17.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	AQ
Type	AC
Mech. spec.	39E119
Base	
Status	PRD/A
Elec. spec.	39WGX682
Layout	39LYE119
Eff. date	09-30-2026
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	05-21-2009

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	17.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
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	3956M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.67 IN
Power Factor	86
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	1.15
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

NP1953D01								
CAT.NO.	CESSWDM23933T							
SPEC.	39E119X682H2							
HP	15							
VOLTS	230/460							
AMP	35/17.5							
RPM	1765							
FRAME	254TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	G	**DES**	A	**CLASS**	F	
NEMA-NOM-EFF	92.4	**PF**	86					
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 # 48151
Typical performance - not guaranteed values

Winding: 39WGX682-R001	**Type:** 3956M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			35/17.5	**Breakdown Torque**	163 LB-FT
R.P.M.			1765	**Pull-up Torque**	52.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	77 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	118 A
Service Factor (S.F.)			1.15	**No-load Current**	6.54 A
NEMA Nom. Eff.	92.4	**Power Factor**	86	**Line-line Res. @ 25ºC**	0.528 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	67°C
S.F. Amps				**Temp. Rise @ S.F. Load**	81°C
				Locked-rotor Power Factor	32
				Rotor inertia	2.45 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	73	82	87	88	89	88
Efficiency	88.6	92.6	92.8	92.6	91.7	90.6	92.1
Speed	1792	1784	1776	1767	1757	1745	1761
Line amperes	7.8	10.4	13.7	17.5	21.7	27.1	20

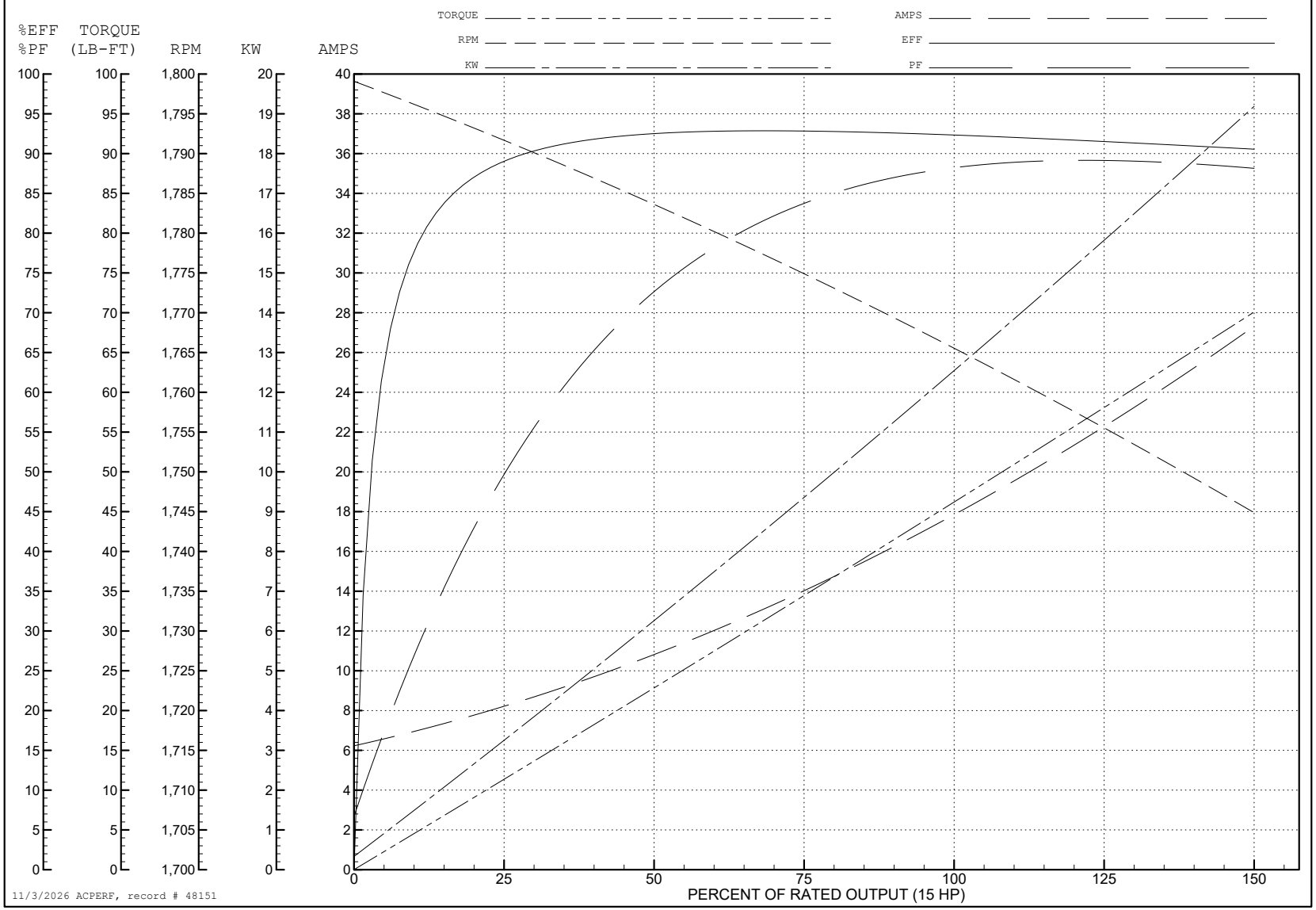
ABB Motors and Mechanical Inc.

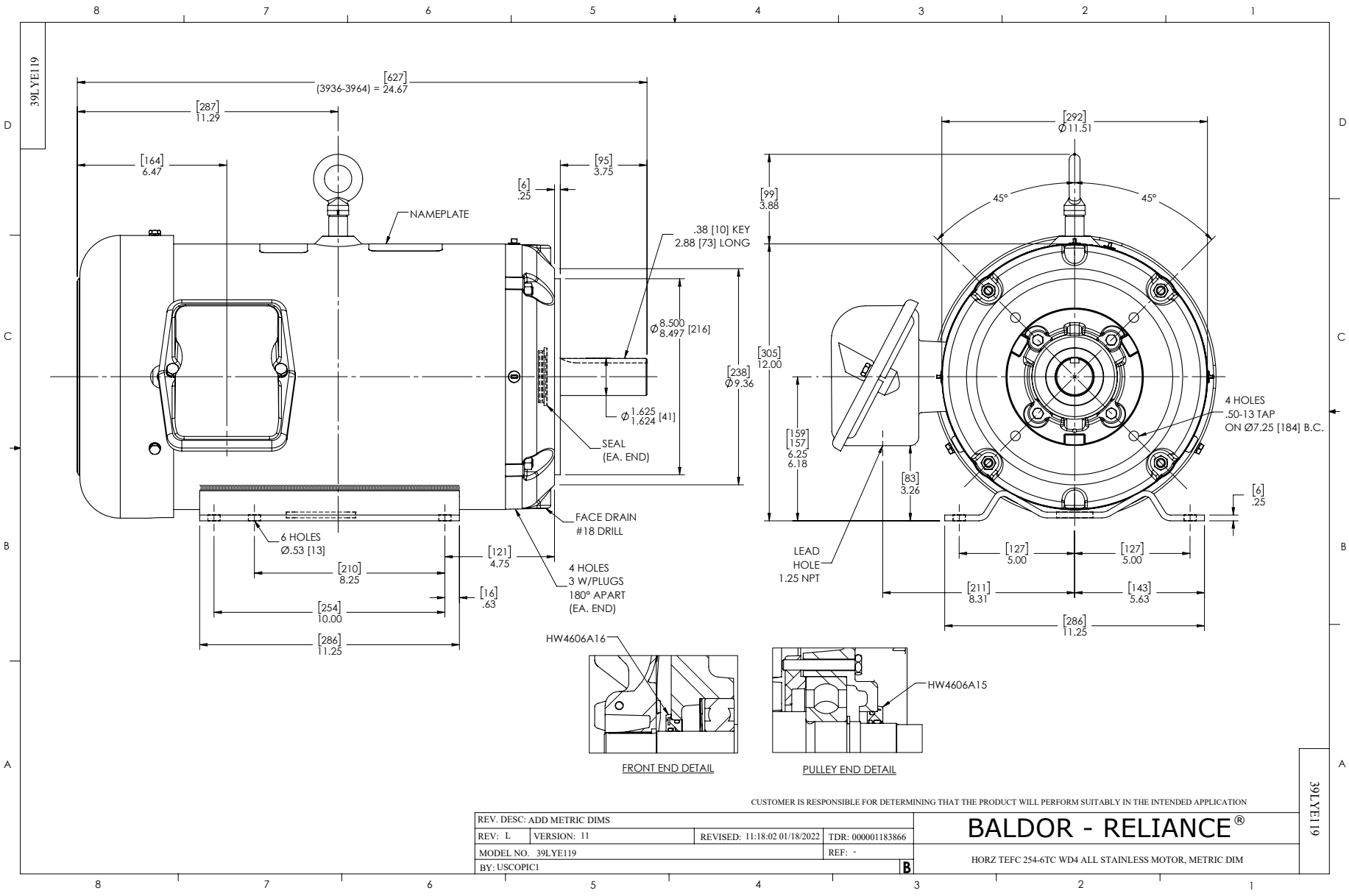
WINDING # 39WGX682

15 HP 3 PH 60 HZ 1765 RPM 460 V 3956M

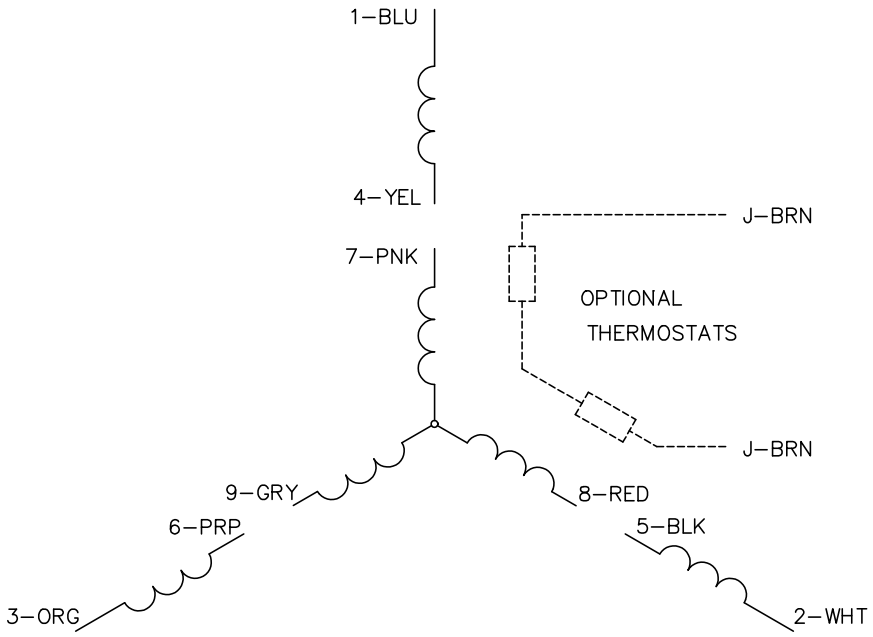
Typical performance - not guaranteed values.

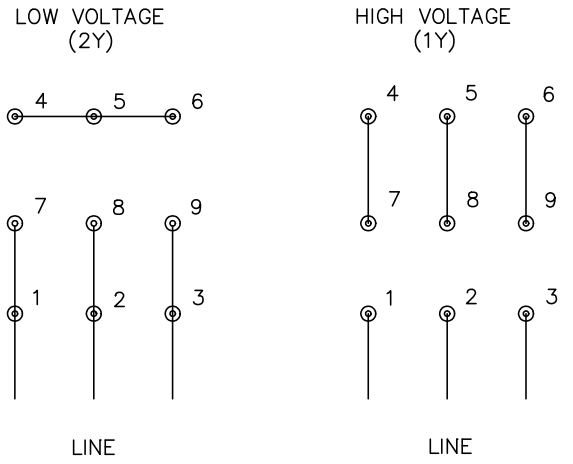
TORQUES(LB-FT): PO=163 PU=52.3 LR=77 LRA=118




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
[99]
3.88
45°
45°
[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

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS