ABB BALDOR RELIANCE

Customer information packet

CESSWDM23994T

15HP, 3520RPM, 3PH, 60HZ, 254TC, 3952M, TEFC, F
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	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	16.500 A @ 460.0 V
	33.000 A @ 230.0 V
	36.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	16.5 a

Part Detail

Revision	AU
Type	AC
Mech. spec.	39E119
Base	
Status	PRD/A
Elec. spec.	39WGX633
Layout	39LYE119
Eff. date	11-18-2025
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	03-18-2008

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	3952M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.67 IN
Power Factor	92
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	Shaft Slinger
Speed	3520 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.	CESSWDM23994T							
SPEC.	39E119X633G1							
HP	15							
VOLTS	230/460							
AMP	33/16.5							
RPM	3520							
FRAME	254TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	J	**DES**	A	**CLASS**	F	
NEMA-NOM-EFF	91	**PF**	92					
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 # 35516
Typical performance - not guaranteed values

Winding: 39WGX633-R002	**Type:** 3952M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			33/16.5	**Breakdown Torque**	100 LB-FT
R.P.M.			3520	**Pull-up Torque**	36.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	47.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	145 A
Service Factor (S.F.)			1.15	**No-load Current**	4.77 A
NEMA Nom. Eff.	91	**Power Factor**	92	**Line-line Res. @ 25ºC**	0.467 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	73°C
S.F. Amps				**Temp. Rise @ S.F. Load**	87°C
				Locked-rotor Power Factor	27.2
				Rotor inertia	1.33 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	66	84	90	92	93	93	93
Efficiency	83.9	89.6	91.1	91.3	90.8	90.1	91
Speed	3579	3563	3546	3528	3507	3486	3515
Line amperes	6.39	9.25	12.8	16.5	20.6	24.9	19

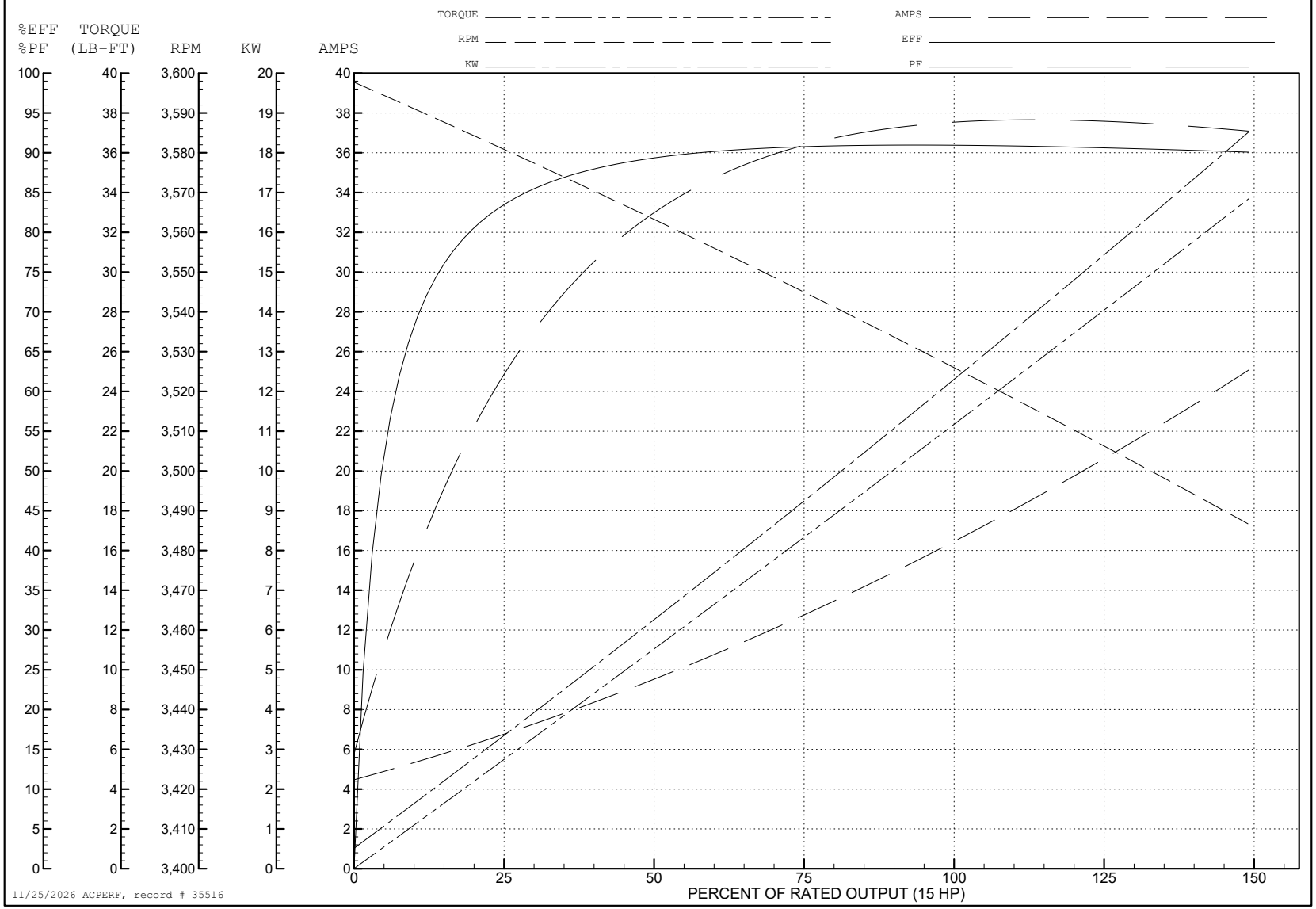
ABB Motors and Mechanical Inc.

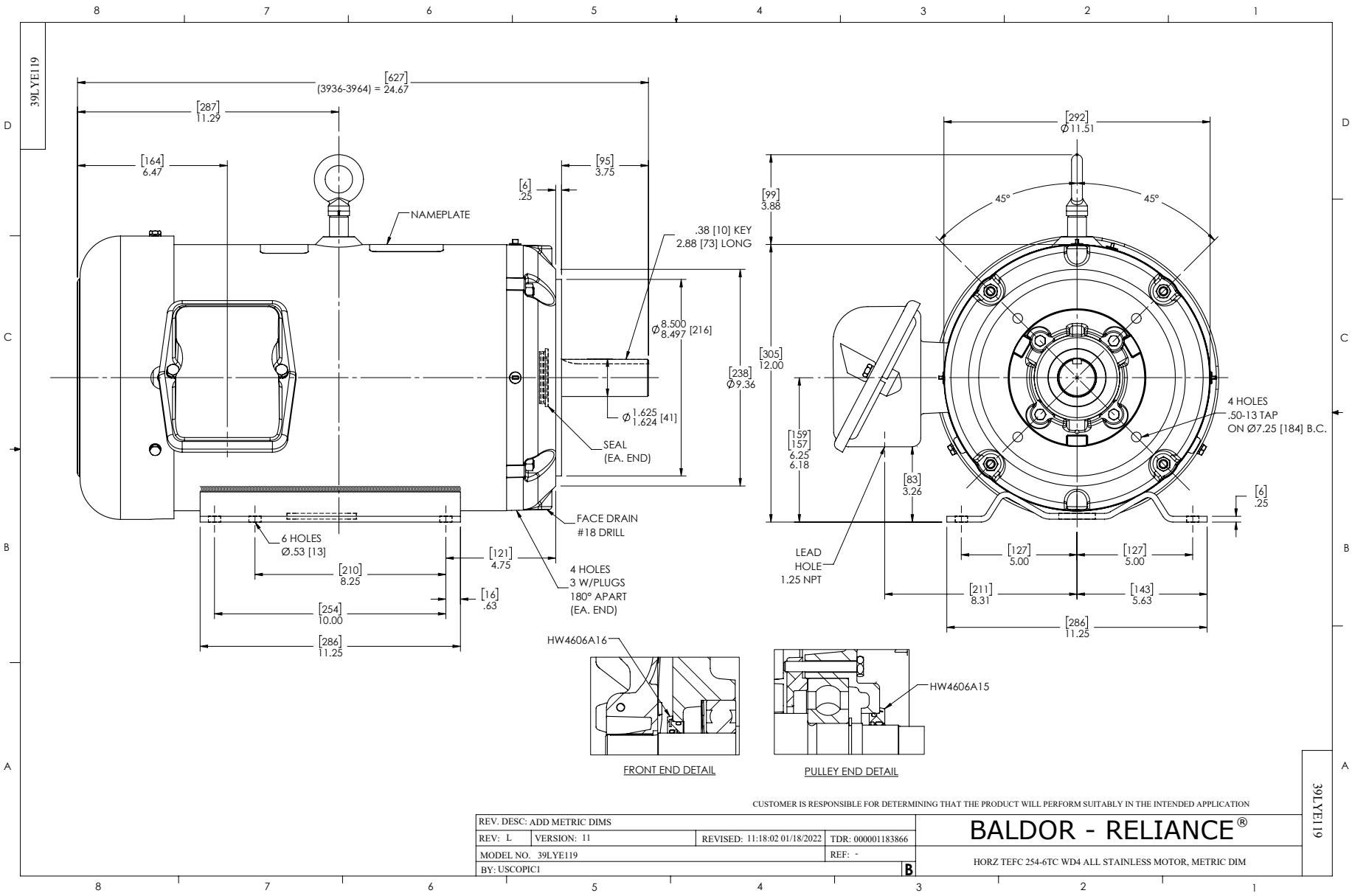
WINDING # 39WGX633

15 HP 3 PH 60 HZ 3520 RPM 460 V 3952M

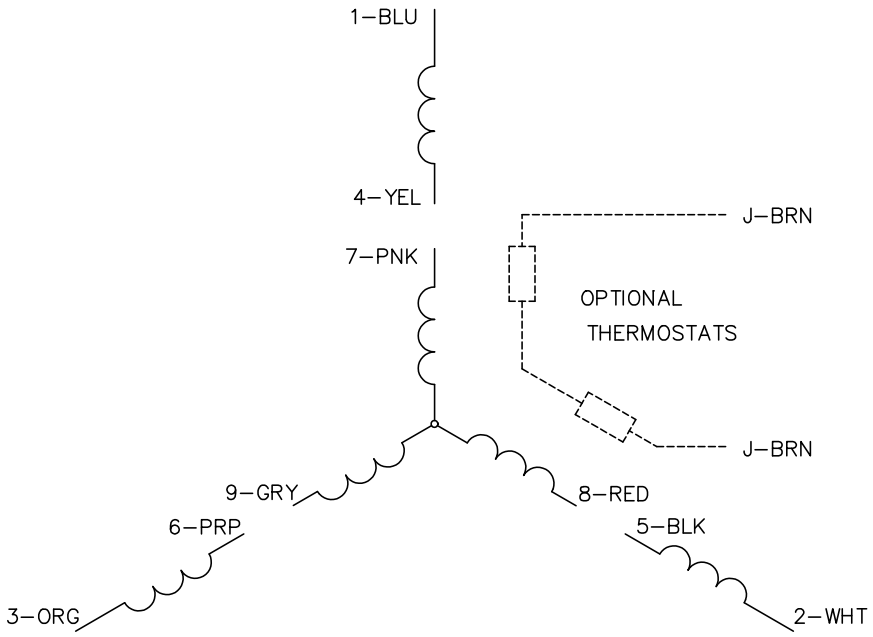
Typical performance - not guaranteed values.

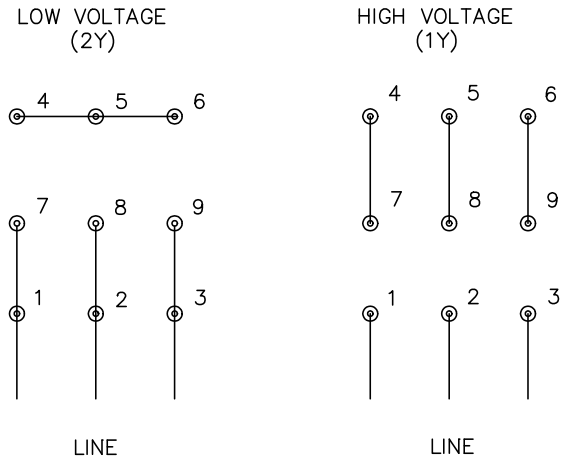
TORQUES(LB-FT): PO=100 PU=36.4 LR=47.4 LRA=145




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