ABB BALDOR RELIANCE

Customer information packet

CESSWDM41906T

20HP, 3525RPM, 3PH, 60HZ, 256TC, 3960M, TEFC, F
Class -
Division - Not Applicable

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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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	43.000 A @ 230.0 V
	21.500 A @ 460.0 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	21.5 a
Insulation Class	F

Part Detail

Revision	AV
Type	AC
Mech. spec.	39E119
Base	
Status	PRD/A
Elec. spec.	39WGX632
Layout	39LYE119
Eff. date	04-07-2026
CD Diagram	CD0005
Poles	02
Leads	9#10
Proprietary	False
Created date	03-18-2008

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 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3960M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.67 IN
Power Factor	93
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	3525 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.	CESSWDM41906T						
SPEC.	39E119X632G1						
HP	20						
VOLTS	230/460						
AMP	43/21.5						
RPM	3525						
FRAME	256TC	**HZ**	60			**PH**	3
SER.F.	1.00	**CODE**	G	**DES**	A	**CLASS**	F
NEMA-NOM-EFF	91	**PF**	93				
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 # 26903
Typical performance - not guaranteed values

Winding: 39WGX632-R001	**Type:** 3960M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	29.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			43/21.5	**Breakdown Torque**	114 LB-FT
R.P.M.			3525	**Pull-up Torque**	35.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	51 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	152 A
Service Factor (S.F.)			1.15	**No-load Current**	4.75 A
NEMA Nom. Eff.	91	**Power Factor**	93	**Line-line Res. @ 25ºC**	0.437 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps				**Temp. Rise @ S.F. Load**	97°C
				Locked-rotor Power Factor	27
				Rotor inertia	1.53 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	71	88	92	93	93	92	93
Efficiency	91	93.5	93.3	92.5	91.2	89.7	91.7
Speed	3581	3562	3541	3519	3492	3465	3503
Line amperes	6.84	11.2	16.2	21.5	27.6	33.8	25.2

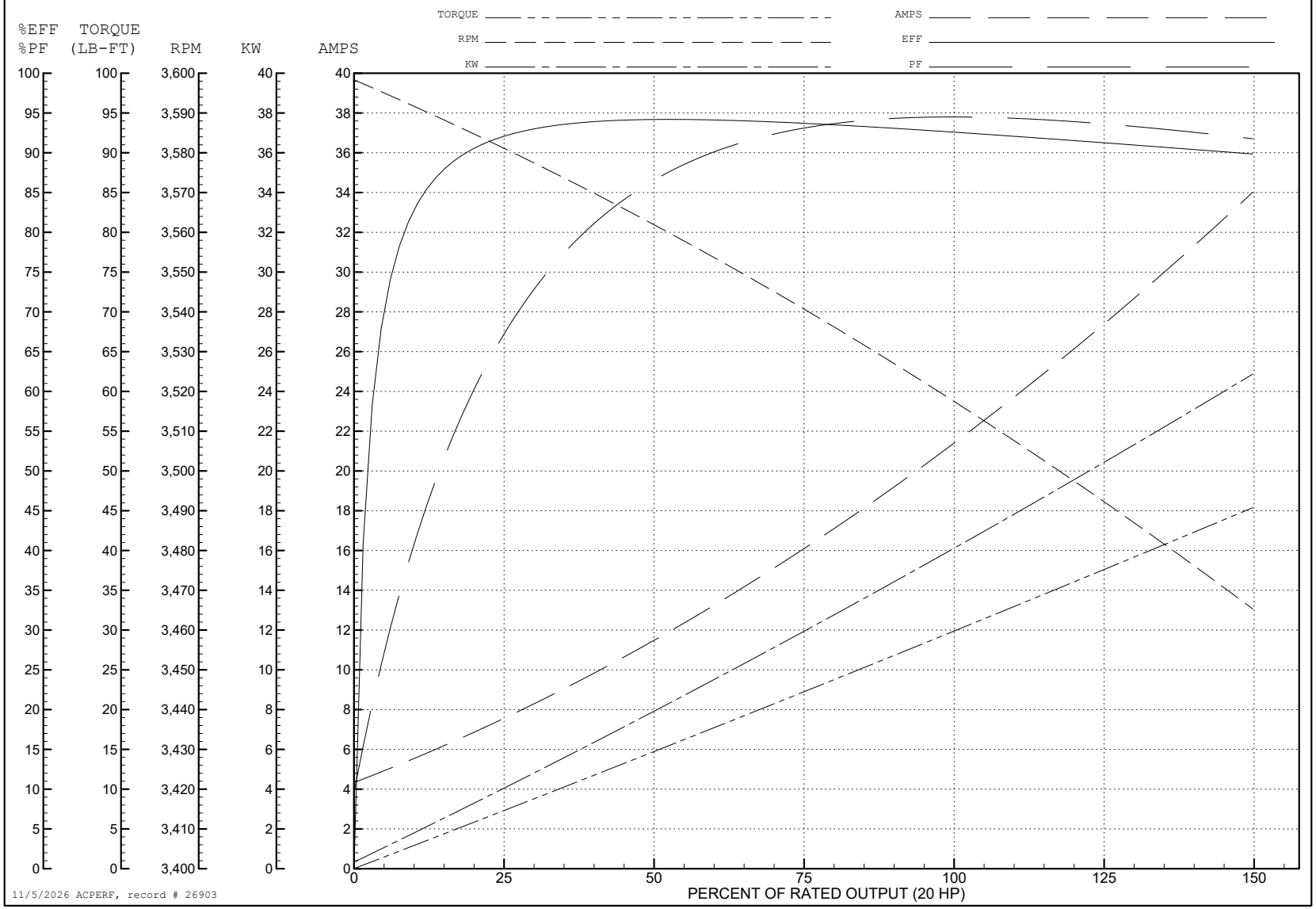
ABB Motors and Mechanical Inc.

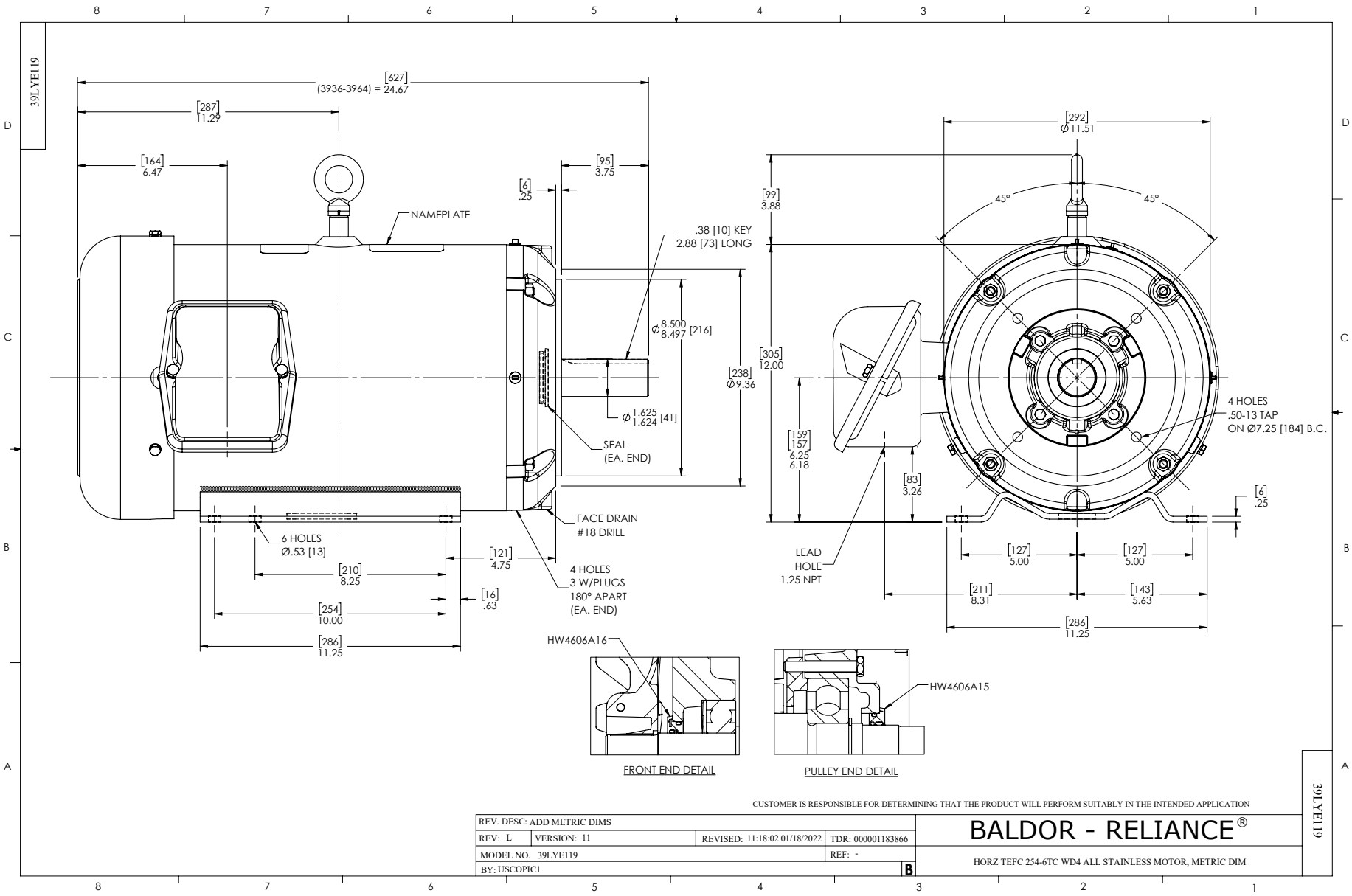
WINDING # 39WGX632

20 HP 3 PH 60 HZ 3525 RPM 460 V 3960M

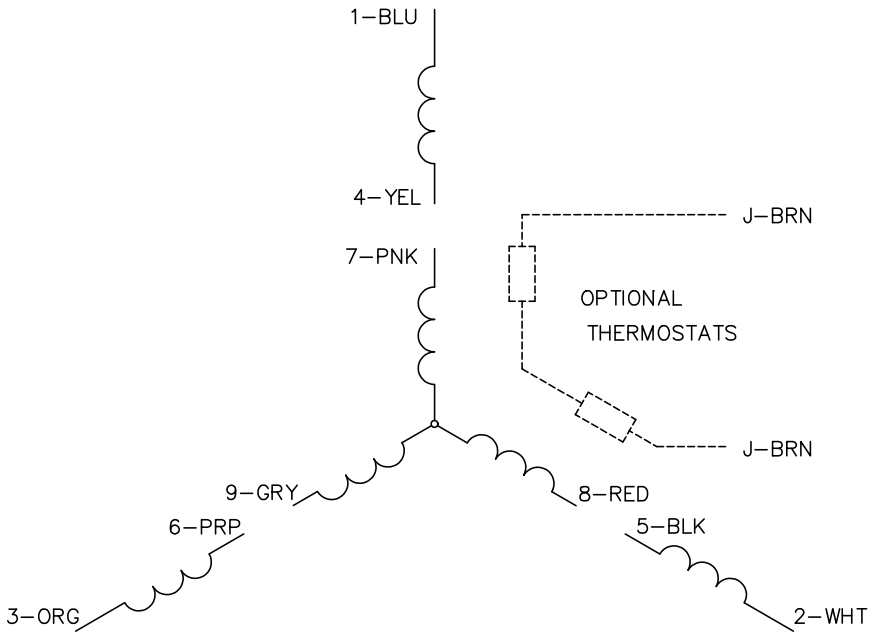
Typical performance - not guaranteed values.

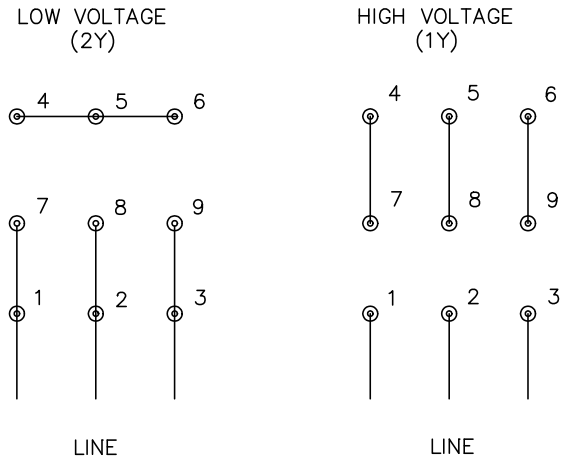
TORQUES(LB-FT): PO=114 PU=35.3 LR=51 LRA=152




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
[159]
[157]
6.25
6.18
[83]
3.26
4 HOLES
.50-13 TAP
ON Ø7.25 [184] B.C.
[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