ABB BALDOR RELIANCE

Customer information packet

JMEWDM23934T

20HP, 1765RPM, 3PH, 60HZ, 256JM, 3952M, TEFC, F
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256JM
Frame Material	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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UR
	CSA
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
	52.000 A @ 208.0 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

Part Detail

Revision	AA
Type	AC
Mech. spec.	39K68
Base	
Status	PRD/A
Elec. spec.	39WGW766
Layout	39LYK068
Eff. date	07-31-2025
CD Diagram	CD0180
Poles	04
Leads	9#12
Proprietary	False
Created date	12-05-2014

High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
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	4
Overall Length	25.06 IN
Power Factor	84
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.750 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1669L											
CAT.NO.	JMEWDM23934T										
SPEC.	39K068W766G1										
HP	20										
VOLTS	230/460										
AMP	48/24										
RPM	1765										
FRAME	256JM	**HZ**	60			**PH**	3				
SER.F.	1.15	**CODE**	H	**DES**	A	**CLASS**	F				
NEMA-NOM-EFF	93	**PF**	84								
RATING	40C AMB-CONT										
CC	010A										
DE	6309	**ODE**	6208								
ENCL	TEFC	**SN**									
BLANK	20:1CT, 20:1VT, 1.00SF										

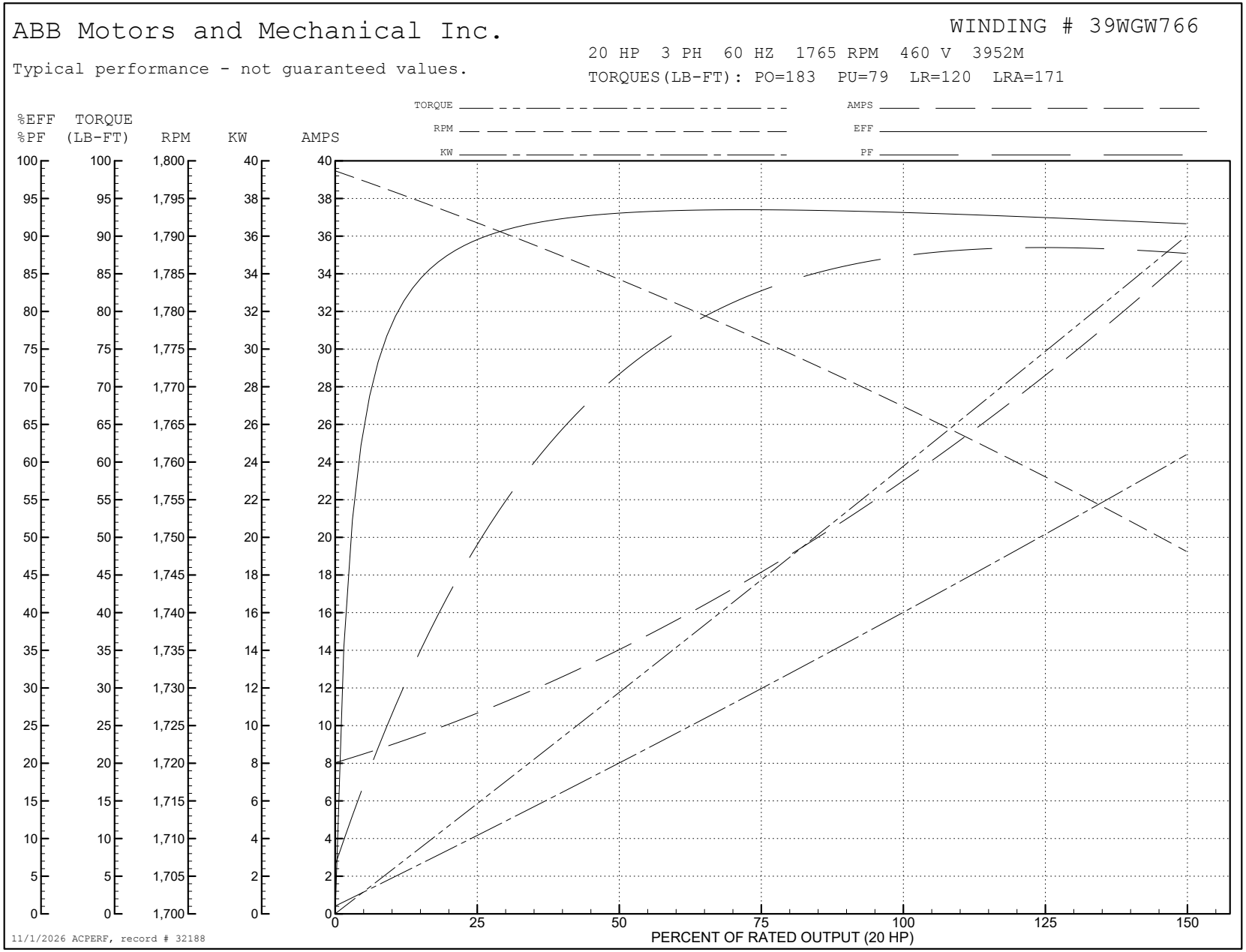
AC Induction Motor Performance Data
Record # 32188
Typical performance - not guaranteed values

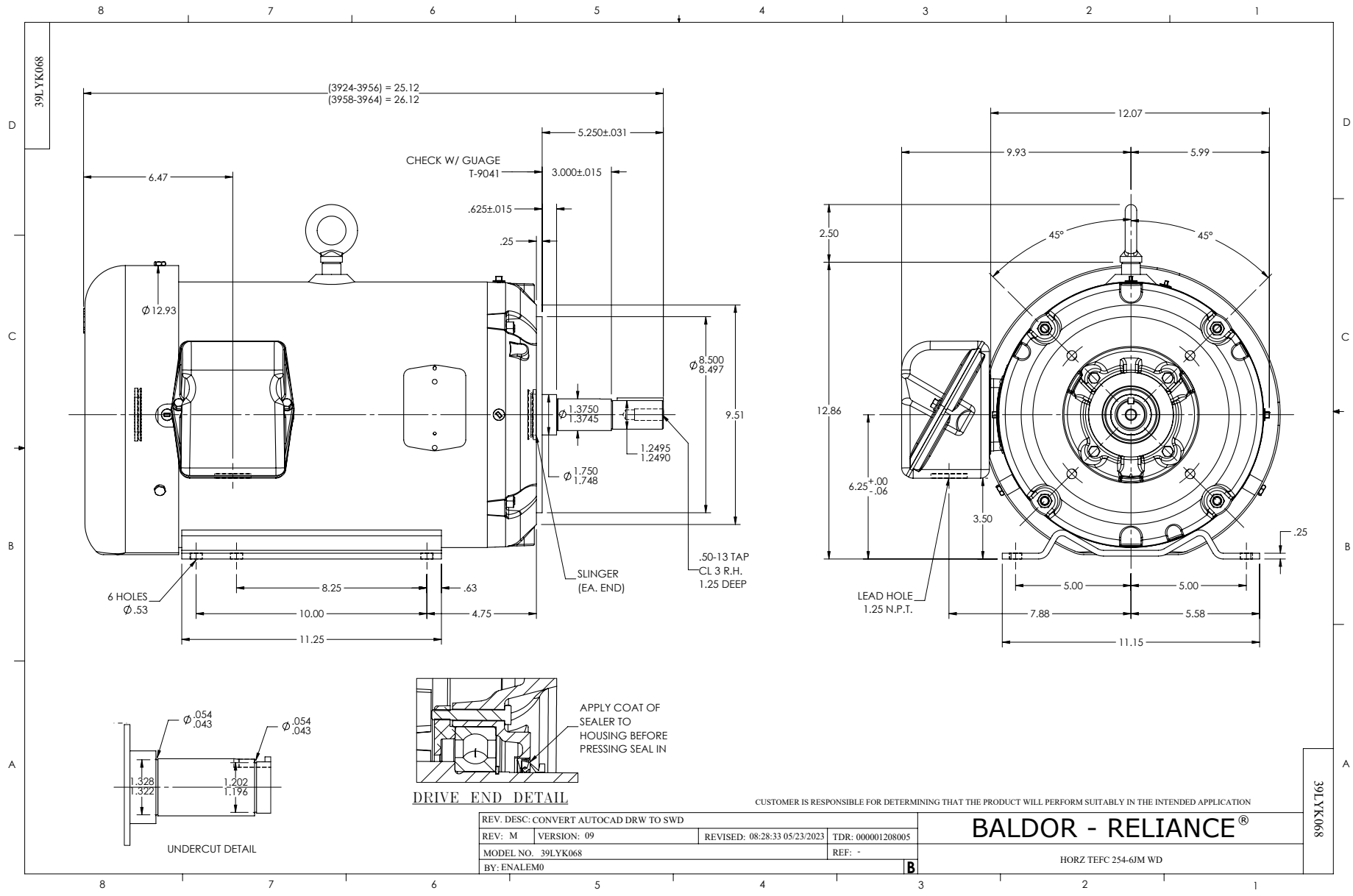
Winding: 39WGW766-R006	**Type:** 3952M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	60 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			48/24	**Breakdown Torque**	183 LB-FT
R.P.M.			1765	**Pull-up Torque**	79 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	120 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	171 A
Service Factor (S.F.)			1.15	**No-load Current**	8.5 A
NEMA Nom. Eff.	93	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.4083 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
S.F. Amps				**Temp. Rise @ S.F. Load**	84°C
				Locked-rotor Power Factor	32.6
				Rotor inertia	2.27 LB-FT2

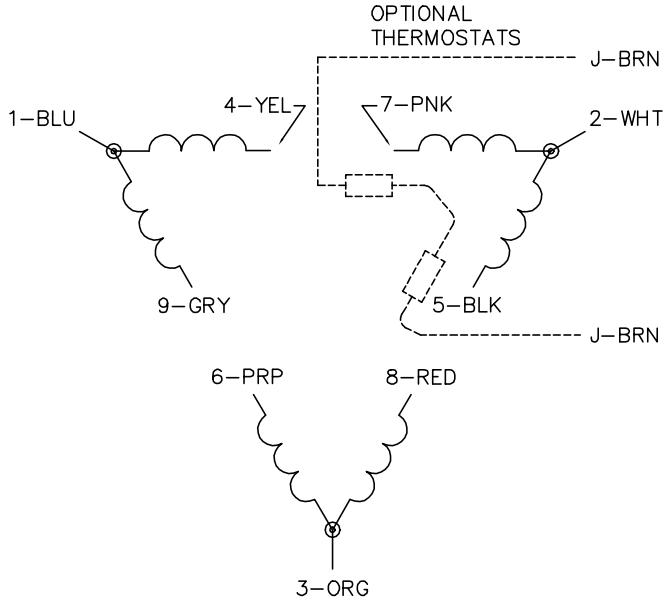
Load Characteristics 460 V, 60 Hz, 20 HP

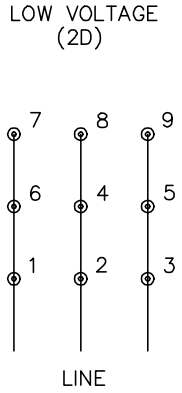
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	79	84	86	87	85
Efficiency	89.6	92.9	93.5	93.2	92.5	91.6	92.8
Speed	1791	1784	1776	1767	1758	1748	1762
Line amperes	10.17	13.79	18.39	23.89	28.78	34.6	26.82

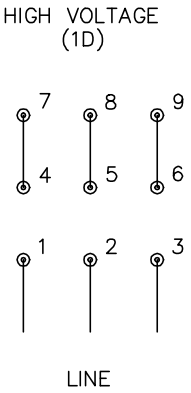

ABB Motors and Mechanical Inc.
WINDING # 39WGW766
20 HP 3 PH 60 HZ 1765 RPM 460 V 3952M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=183 PU=79 LR=120 LRA=171
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/1/2026 ACPERF, record # 32188


39LYK068
(3924-3956) = 25.12
(3958-3964) = 26.12
5.250±.031
CHECK W/ GUAGE
T-9041
3.000±.015
.625±.015
.25
6.47
Ø12.93
Ø8.500
8.497
Ø1.3750
1.3745
1.2495
1.2490
Ø1.750
1.748
9.51
6 HOLES
Ø.53
8.25
.63
10.00
4.75
11.25
SLINGER
(EA. END)
.50-13 TAP
CL 3 R.H.
1.25 DEEP
12.07
9.93
5.99
2.50
45°
45°
12.86
6.25 +.00 -.06
3.50
.25
LEAD HOLE
1.25 N.P.T.
5.00
5.00
7.88
5.58
11.15
Ø.054
.043
Ø.054
.043
1.328
1.322
1.202
1.196
UNDERCUT DETAIL
APPLY COAT OF
SEALER TO
HOUSING BEFORE
PRESSING SEAL IN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: M
VERSION: 09
REVISED: 08:28:33 05/23/2023
TDR: 000001208005
MODEL NO. 39LYK068
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6JM WD
39LYK068

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