

ABB BALDOR RELIANCE III

Customer information packet

JMEWDM23934T

20HP, 1765RPM, 3PH, 60HZ, 256JM, 3952M, TEFC, F

Class -

Division - Not Applicable

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	
Service Factor (S.F.)		1.15	Starting Current		171 A	
NEMA Nom. Eff.		93	Power Factor		84	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		0.4083 Ω	
S.F. Amps			Temp. Rise @ Rated Load		70°C	
			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

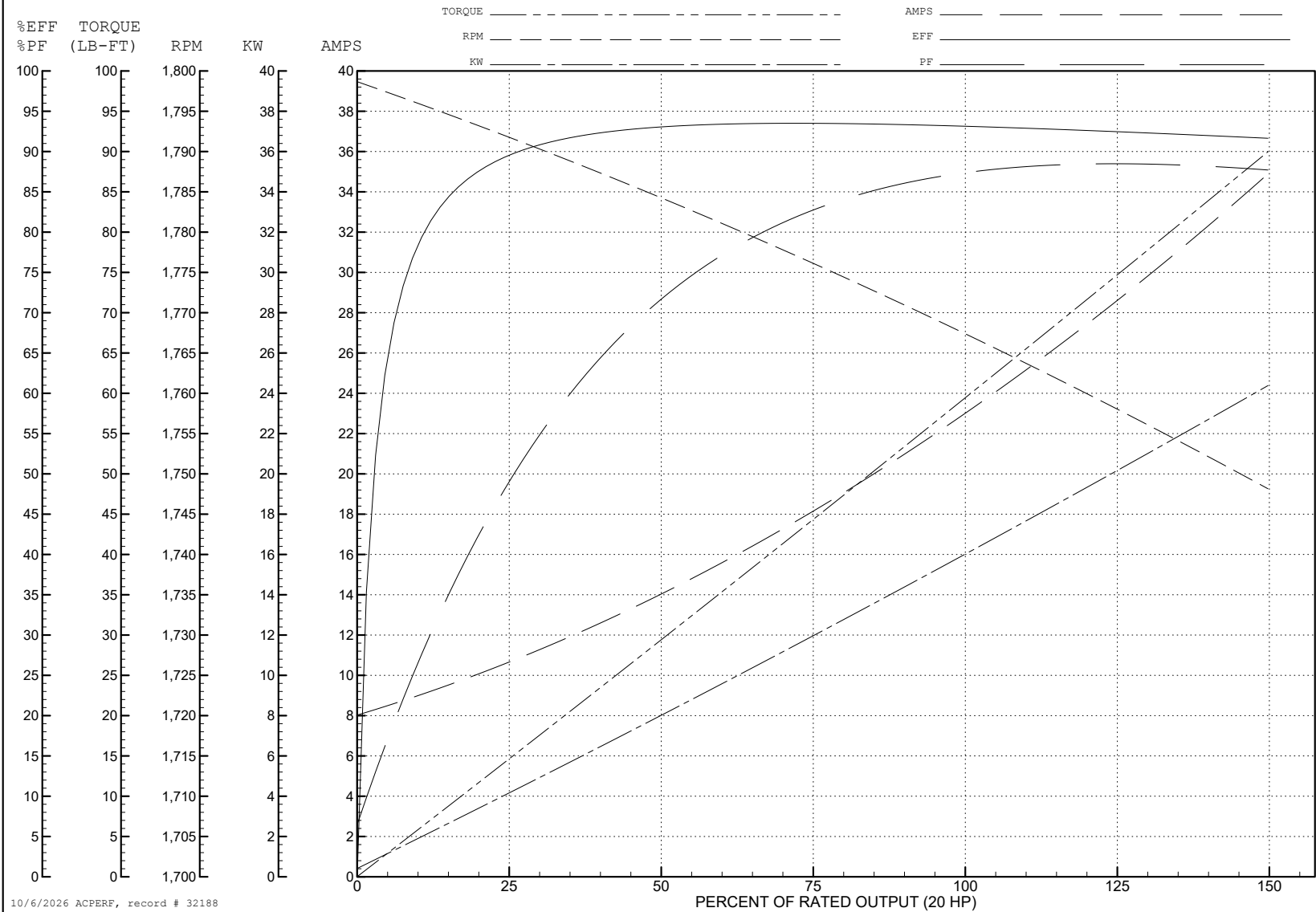
ABB Motors and Mechanical Inc.

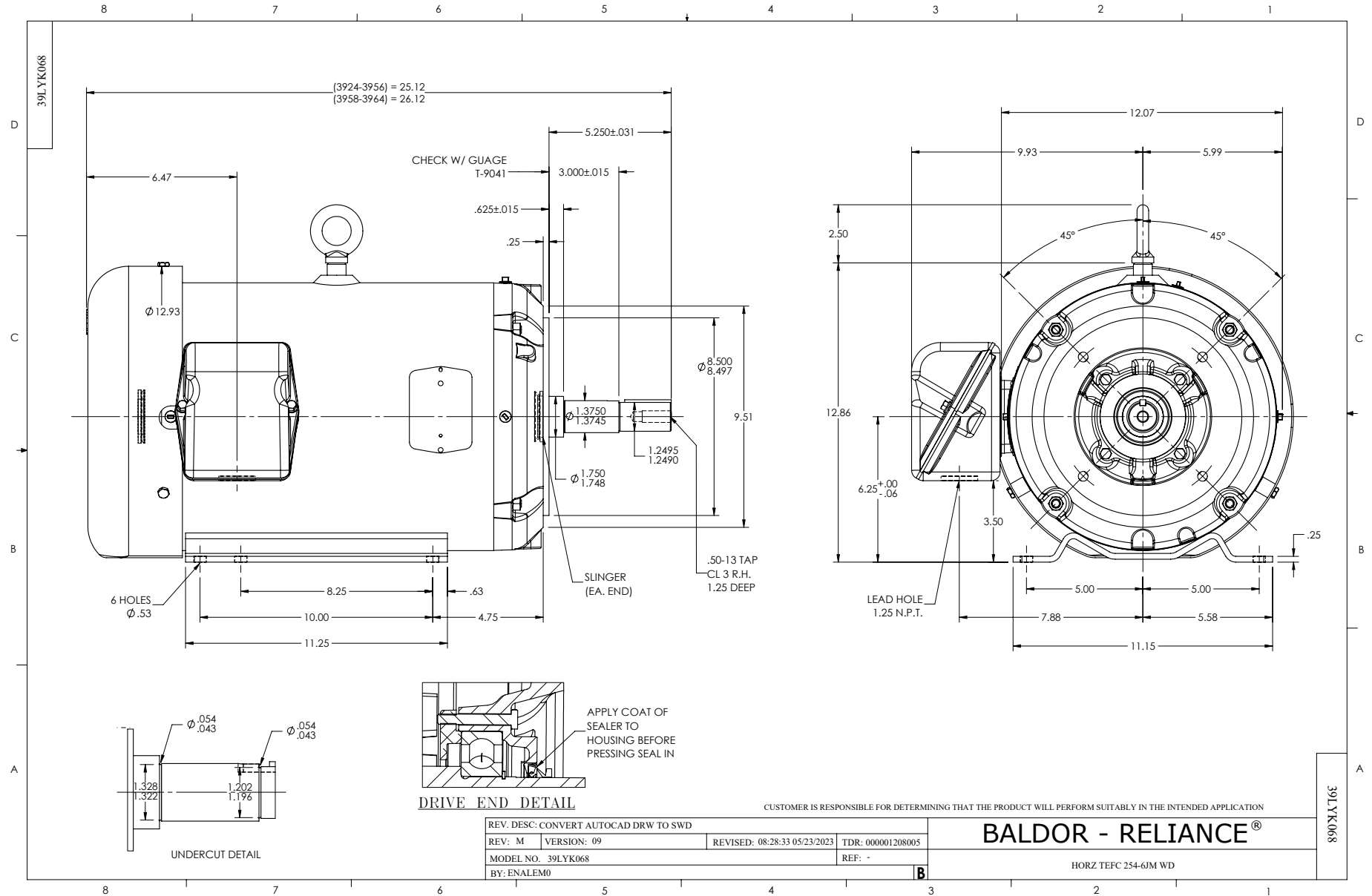
WINDING # 39GW766

Typical performance - not guaranteed values.

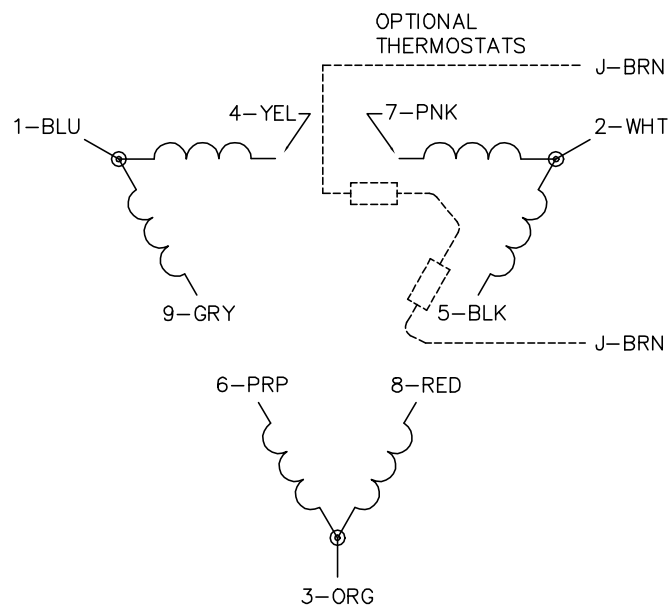
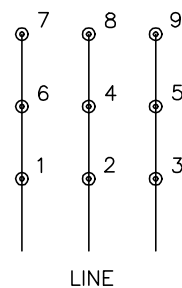
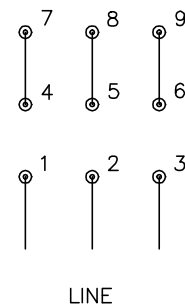
20 HP 3 PH 60 HZ 1765 RPM 460 V 3952M

TORQUES (LB-FT): PO=183 PU=79 LR=120 LRA=171





CD0180


LOW VOLTAGE
(2D)

HIGH VOLTAGE
(1D)

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.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180