

ABB BALDOR RELIANCE III

Customer information packet

CEWDM23933T-5

15HP, 1765RPM, 3PH, 60HZ, 254TC, 3942M, TEFC, F

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	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	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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)
Current @ Voltage	14.500 A @ 575.0 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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H

Part Detail

Revision	BB
Type	AC
Mech. spec.	39R098
Base	
Status	PRD/A
Elec. spec.	39WGX419
Layout	39LYR098
Eff. date	01-22-2025
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	01-01-0001

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3942M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.57 IN
Power Factor	84
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
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

Nameplate

NP1669L									
CAT.NO.	CEWDM23933T-5								
SPEC.	39R098X419G1								
HP	15								
VOLTS	575								
AMP	14.5								
RPM	1765								
FRAME	254TC		HZ	60			PH	3	
SER.F.	1.15	CODE	H	DES	A	CLASS	F		
NEMA-NOM-EFF	92.4	PF	84						
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6208					
ENCL	TEFC	SN							
BLANK									

AC Induction Motor Performance Data

Record # 25747

Typical performance - not guaranteed values

Winding: 39WGX419-R001				Type: 3942M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		15		Full Load Torque		45 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		14.5		Breakdown Torque		145 LB-FT		
R.P.M.		1765		Pull-up Torque		76 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		89.1 LB-FT		
NEMA Design Code		A	KVA Code	H		Starting Current		101 A
Service Factor (S.F.)		1.15		No-load Current		5.68 A		
NEMA Nom. Eff.		92.4	Power Factor	84		Line-line Res. @ 25°C		0.895 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C		
S.F. Amps				Temp. Rise @ S.F. Load		73°C		
				Locked-rotor Power Factor		33.3		
				Rotor inertia		1.84 lb-ft²		

Load Characteristics 575 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	84	89	91	92	90
Efficiency	87.4	92	92.9	92.8	92.2	91.6	92.4
Speed	1792	1784	1776	1766	1759	1751	1762
Line amperes	6.42	8.48	11	13.8	16.8	20	15.6

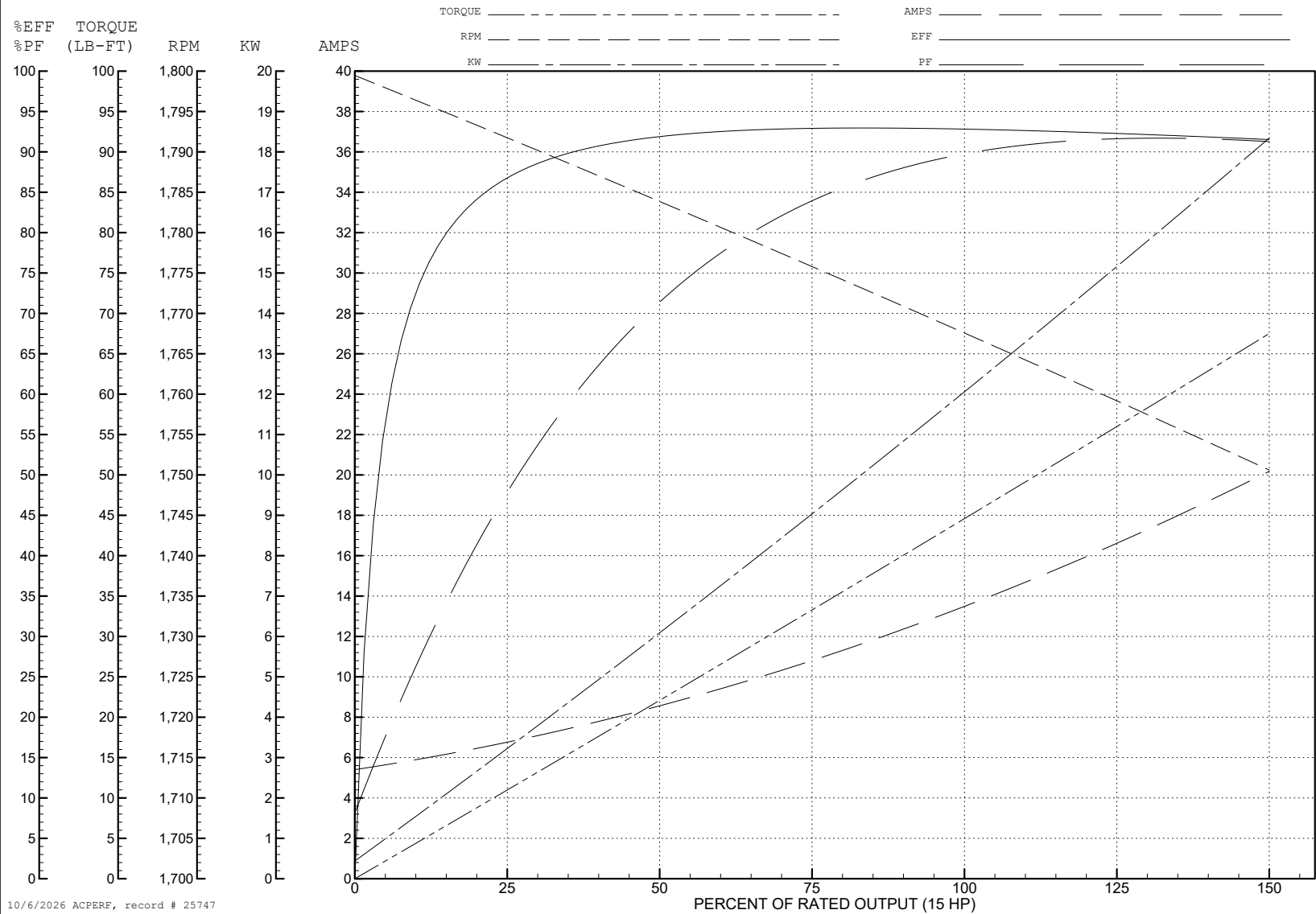
ABB Motors and Mechanical Inc.

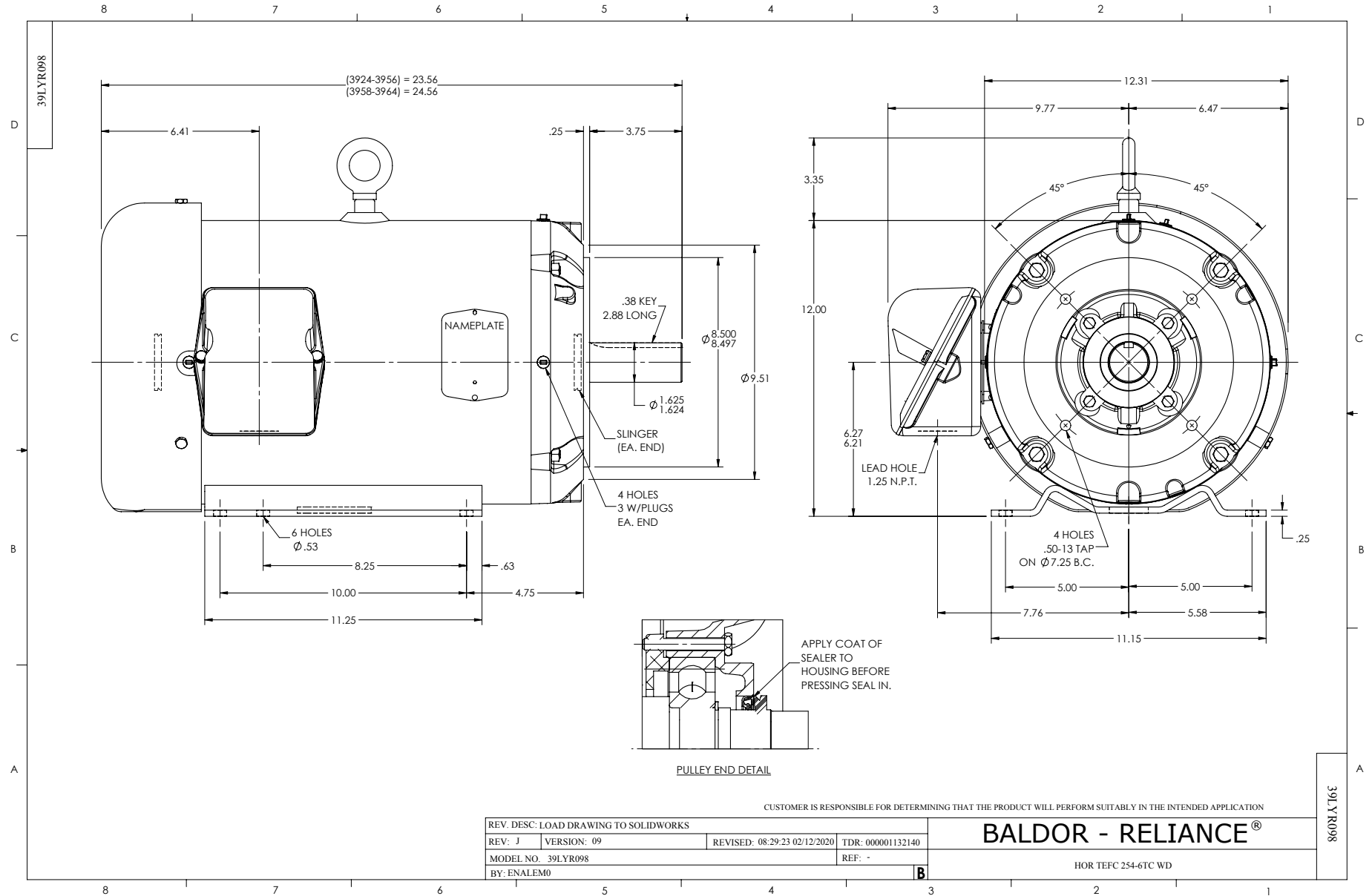
WINDING # 39WGX419

Typical performance - not guaranteed values.

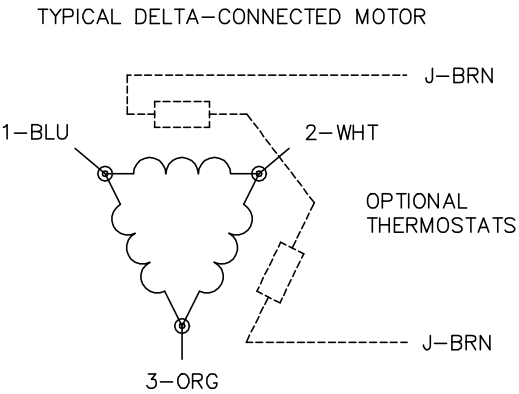
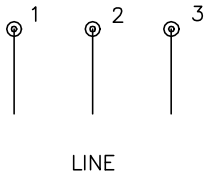
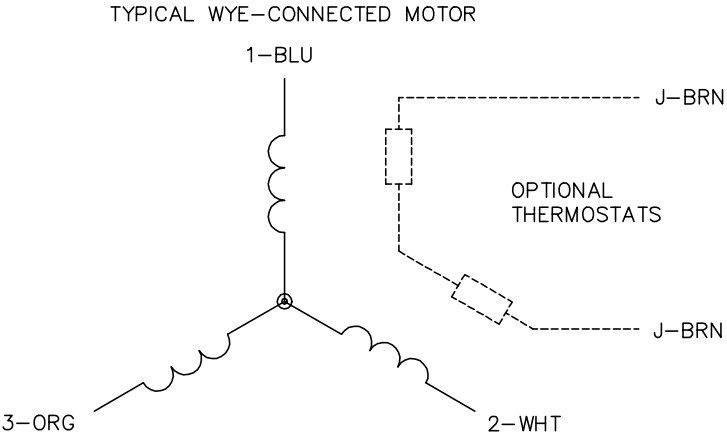
15 HP 3 PH 60 HZ 1765 RPM 575 V 3942M

TORQUES (LB-FT): PO=145 PU=76 LR=89.1 LRA=101





CD0006



- NOTES:
1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1