

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM23933T-5E

56M 4P TEFC HOR 254TC S/P9-12 SE ENCAP

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
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 NEMA PREMIUM 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	14.200 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.2 a
Insulation Class	H
Inverter Code	Inverter Ready

Part Detail

Revision	T
Type	AC
Mech. spec.	39E646
Base	
Status	PRD/A
Elec. spec.	39WGX761
Layout	39LYE646
Eff. date	02-10-2025
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	10-11-2018

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.18 IN
Power Factor	85
Product Family	WD All SS Encapsulated
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 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
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4427AAA02														
CAT #	CFSWDM23933T-5E					WGT	281	LBS						
SPEC	39E646X761G1					ENCL	TEFC							
SER #						CC	010A	IP	69					
HP	15	MAG CUR			5.8									
VOLTS	575						NEMA NOM. EFF			92.4				
AMPS	14.2						PF	85						
RATING	40C AMB-CONT													
RPM	1765					MAX RPM		2700						
FRAME	254TC	HZ	60			CODE	H	CLASS	H					
SER.F.	1.15	SF AMP					PH	3	DES	A				
DE	6309	ODE		6309										
LUBRICATION	POLYREX EM													
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO	90	1.5:1				
ID LOGO	WK2	2.44	CT	30	TO	60	2:1							
ID LOGO	SL HZ	1.2	VT	6	TO	60	10:1							

AC Induction Motor Performance Data

Record # 73070

Typical performance - not guaranteed values

Winding: 39WGX761-R003			Type: 3956M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15		Full Load Torque		44.6 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		14.2		Breakdown Torque		178 LB-FT	
R.P.M.		1765		Pull-up Torque		57.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		84.2 LB-FT	
NEMA Design Code		A	KVA Code	H		Starting Current	103 A
Service Factor (S.F.)		1.15		No-load Current		5.78 A	
NEMA Nom. Eff.		92.4	Power Factor	85		Line-line Res. @ 25°C	0.788 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		65°C	
S.F. Amps				Temp. Rise @ S.F. Load		79°C	
				Locked-rotor Power Factor		31.9	
				Rotor inertia		2.45 LB-FT2	

Load Characteristics 575 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	81	85	87	88	86
Efficiency	87.2	91.2	92.6	92.8	91.8	90.7	92.2
Speed	1792	1785	1777	1769	1760	1748	1764
Line amperes	6.74	8.72	11.2	14.2	17.5	21.7	16.2

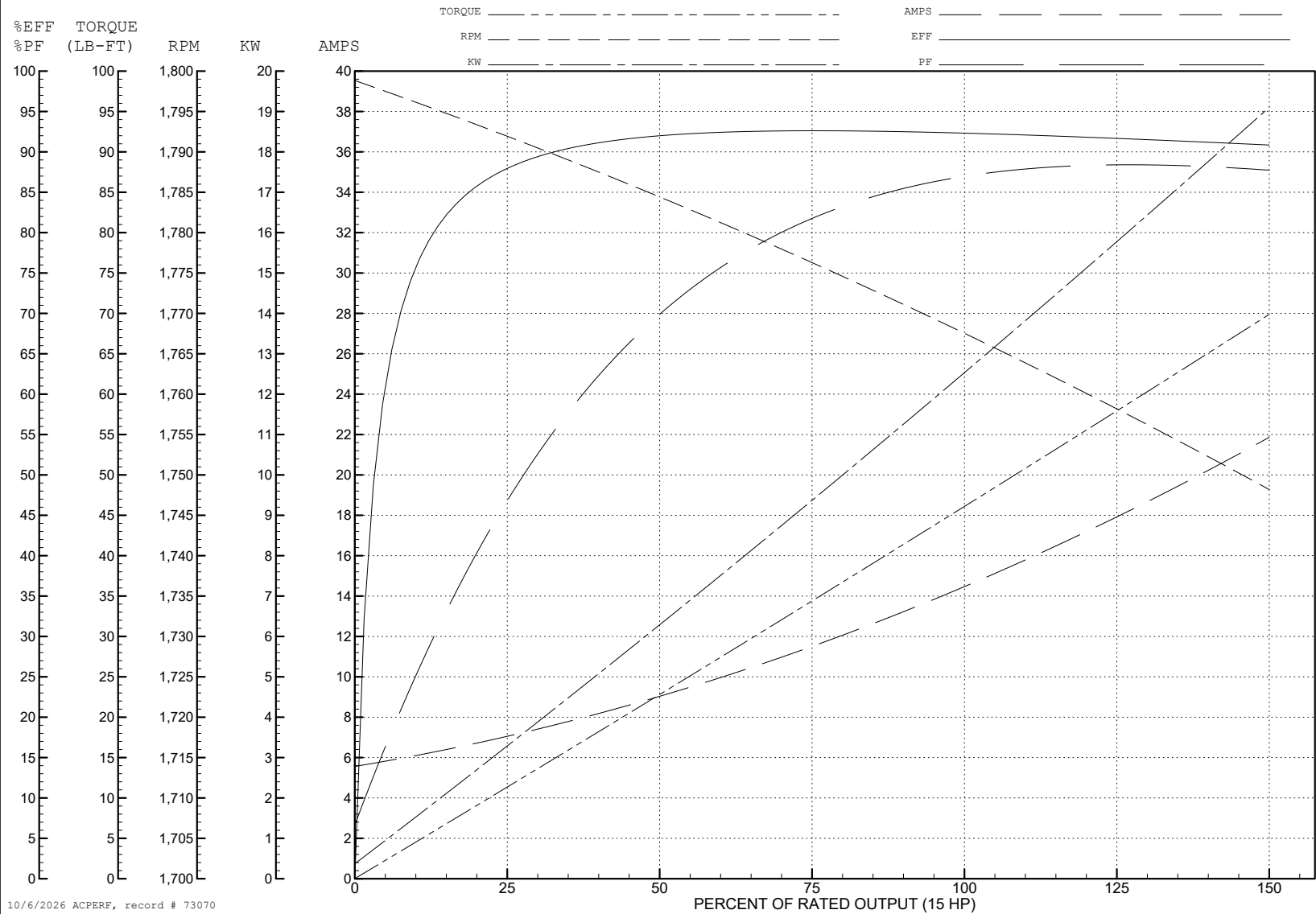
ABB Motors and Mechanical Inc.

WINDING # 39WGX761

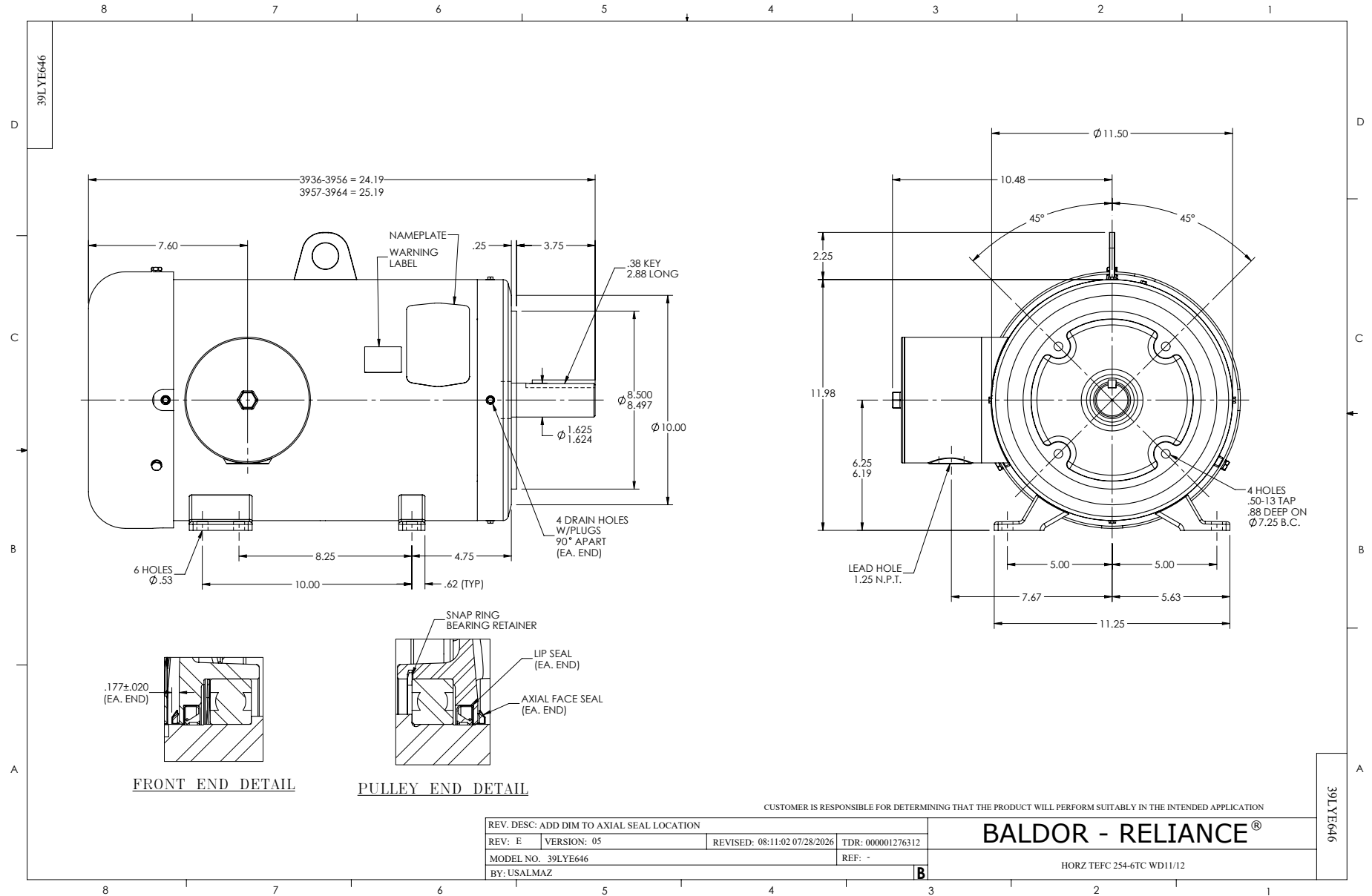
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 575 V 3956M

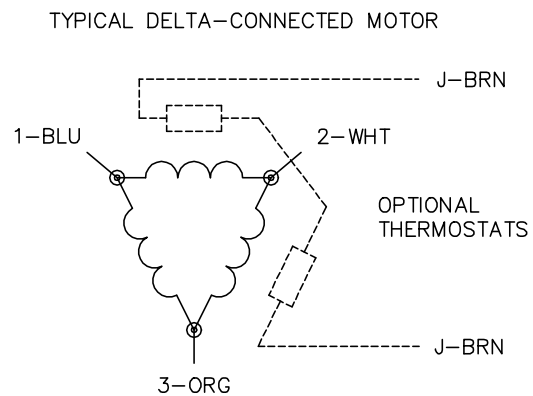
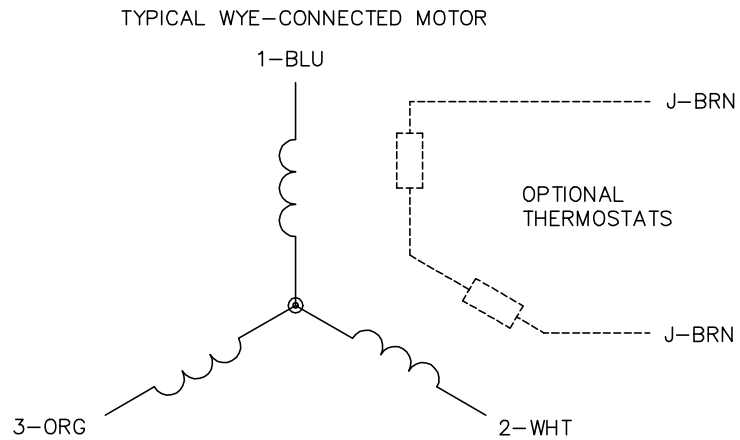
TORQUES (LB-FT): PO=178 PU=57.2 LR=84.2 LRA=103



10/6/2026 ACPERF, record # 73070



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

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