

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3551TP-E

3HP, 1690RPM, 3PH, 60HZ, 143TC, 3540M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143TC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	WEEE C UR US CURUS
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	4.300 A @ 460.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.3 a
Insulation Class	H
Inverter Code	Not Inverter

Part Detail

Revision	A
Type	AC
Mech. spec.	35EL002
Base	
Status	PRD/A
Elec. spec.	35WGF338
Layout	35LYEL002
Eff. date	10-03-2025
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	05-27-2025

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Cord
Motor Standards	NEMA
Motor Type	3540M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.28 IN
Power Factor	80
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1690 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

NP4427ALY01											
CAT #	CFSWDM3551TP-E				WT	59		LBS			
SPEC	35EL002F338G1				ENCL	TEFC					
SER #					CC			IP	69		
HP	3				NEMA NOM. EFF						81.5
VOLTS	460										
AMPS	4.3						PF	80			
RATING	40C AMB-CONT										
RPM	1690										
FRAME	143TC	HZ		60	CODE	H	CLASS		H		
SER.F.	1.00	SF AMP					PH	3	DES	D	
DE	6205		ODE		6205		YR				
LUBRICATION	POLYREX EM										
QR											

AC Induction Motor Performance Data

Record # 112360

Typical performance - not guaranteed values

Winding: 35WGF338-R001			Type: 3540M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		3	Full Load Torque		9.54 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		4.3	Breakdown Torque		34.9 LB-FT			
R.P.M.		1690	Pull-up Torque		34.8 LB-FT			
Hz		60	Phase		3	Locked-rotor Torque	39.2 LB-FT	
NEMA Design Code		D	KVA Code		H	Starting Current		26 A
Service Factor (S.F.)		1	No-load Current		2.25 A			
NEMA Nom. Eff.		81.5	Power Factor		80	Line-line Res. @ 25°C		5.59 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		105°C		
				Locked-rotor Power Factor		62.2		
				Rotor inertia		0.29 lb-ft²		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	59	72	79	84	86
Efficiency	80.2	85.1	85.1	82.7	79.6	75.5
Speed	1768	1736	1701	1658	1610	1553
Line amperes	2.39	2.83	3.46	4.29	5.27	6.47

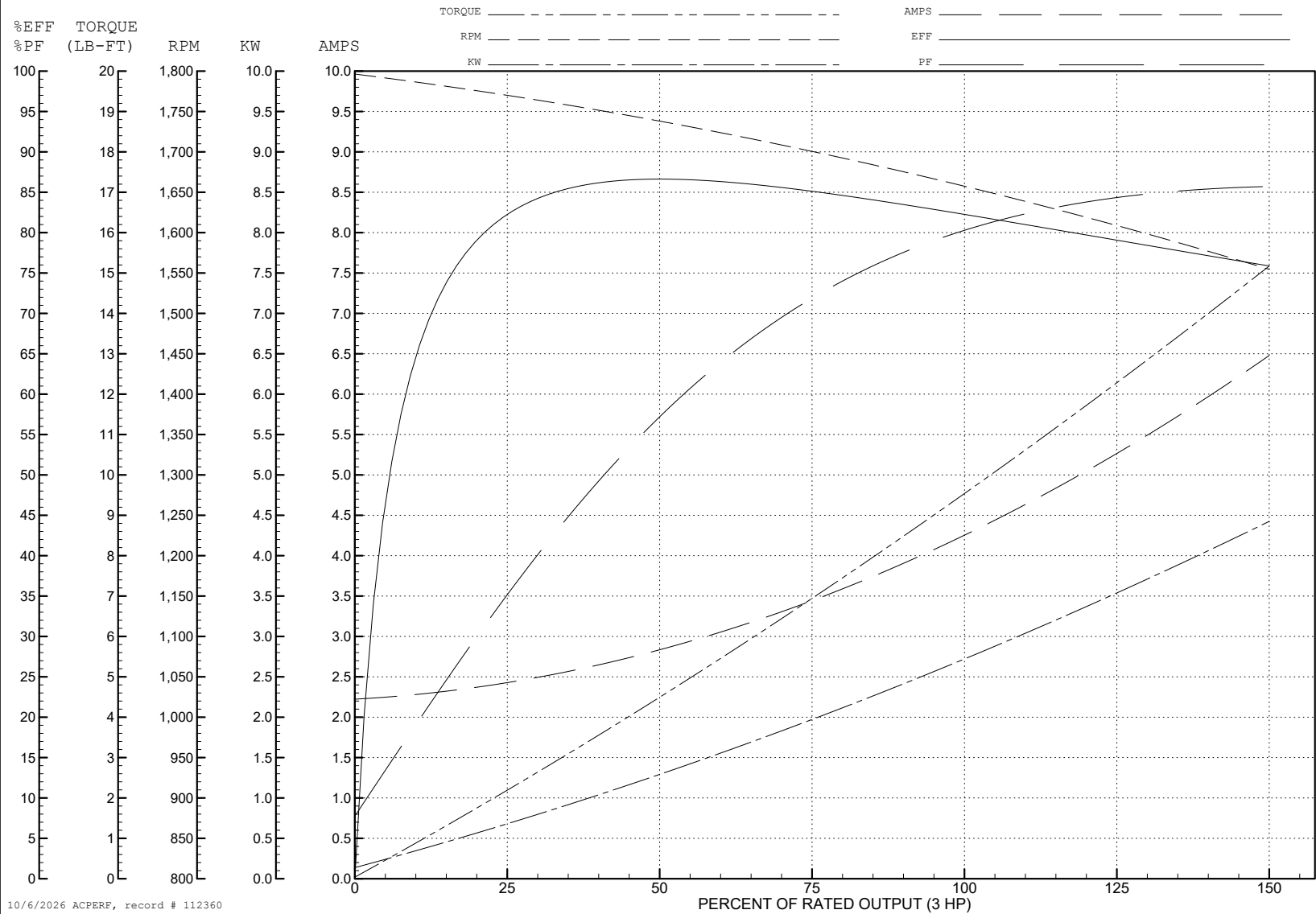
ABB Motors and Mechanical Inc.

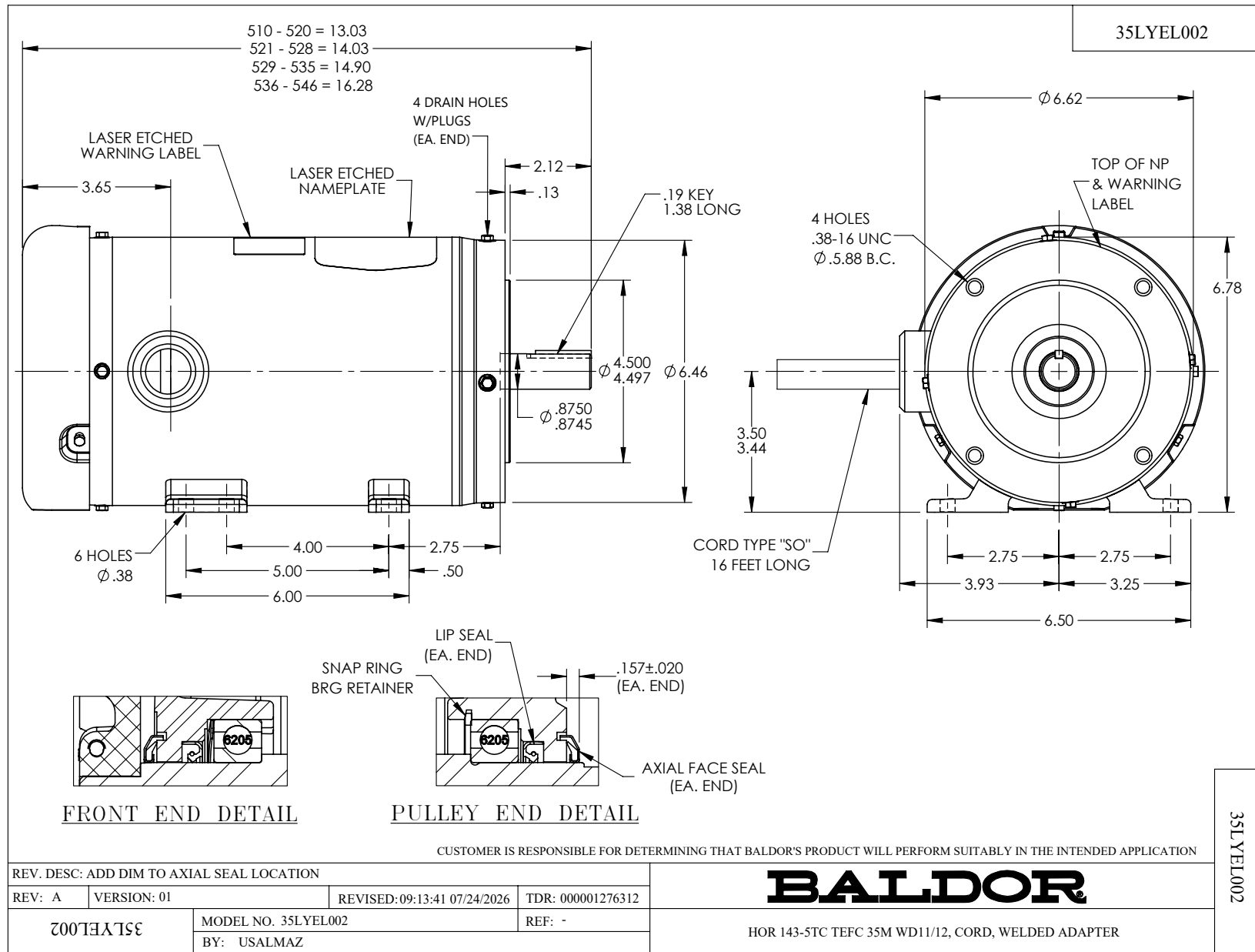
WINDING # 35WGF338

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1690 RPM 460 V 3540M

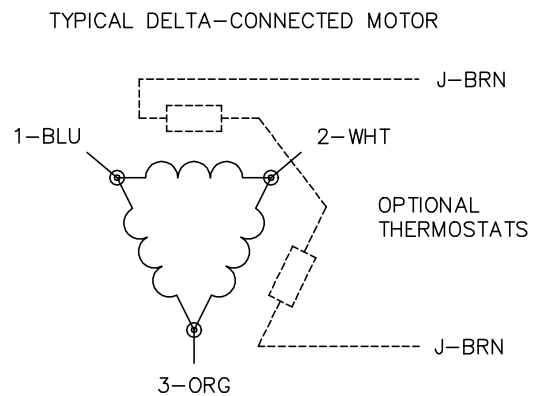
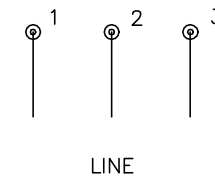
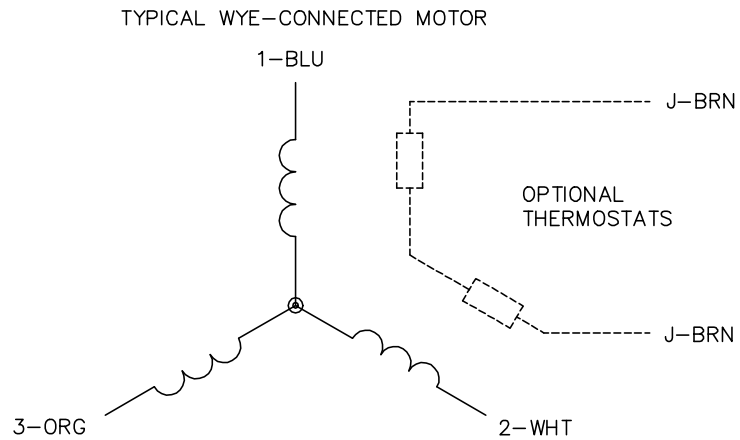
TORQUES (LB-FT): PO=34.9 PU=34.8 LR=39.2 LRA=26







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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