

ABB BALDOR RELIANCE III

Customer information packet

FSWDM3551TP-E

3HP, 1700RPM, 3PH, 60HZ, 143T, 3546M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143T
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
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
KVA Code	K

Part Detail

Revision	B
Type	AC
Mech. spec.	35E6057
Base	
Status	PRD/A
Elec. spec.	35WGF438
Layout	35LYE6057
Eff. date	03-23-2026
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	12-12-2025

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	3546M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.28 IN
Power Factor	78
Product Family	WD All SS 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	1700 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 #	FSWDM3551TP-E				WT		LBS					
SPEC	35E6057F438G1				ENCL	TEFC						
SER #					CC			IP	69			
HP	3				NEMA NOM. EFF					81.5		
VOLTS	460											
AMPS	4.3				PF		78					
RATING	40C AMB-CONT											
RPM	1700											
FRAME	143T	HZ		60	CODE	K	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 # 115731

Typical performance - not guaranteed values

Winding: 35WGF438-R001			Type: 3546M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3		Full Load Torque		9.204 LB-FT		
Volts		460		Start Configuration		direct on line		
Full Load Amps		4.3		Breakdown Torque		42.2 LB-FT		
R.P.M.		1700		Pull-up Torque		27.1 LB-FT		
Hz		60	Phase	3	Locked-rotor Torque		39.3 LB-FT	
NEMA Design Code		D		KVA Code		K	Starting Current	32 A
Service Factor (S.F.)		1		No-load Current		2.23 A		
NEMA Nom. Eff.		81.5	Power Factor		78	Line-line Res. @ 25°C		5.0693 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		111°C
						Locked-rotor Power Factor		62.3
						Rotor inertia		0.332 lb-ft²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	38	59	71	78	82	85
Efficiency	77.5	84.1	84.9	83.9	81.8	78.9
Speed	1778	1756	1732	1704.4	1673	1636.2
Line amperes	2.4	2.85	3.49	4.28	5.21	6.28

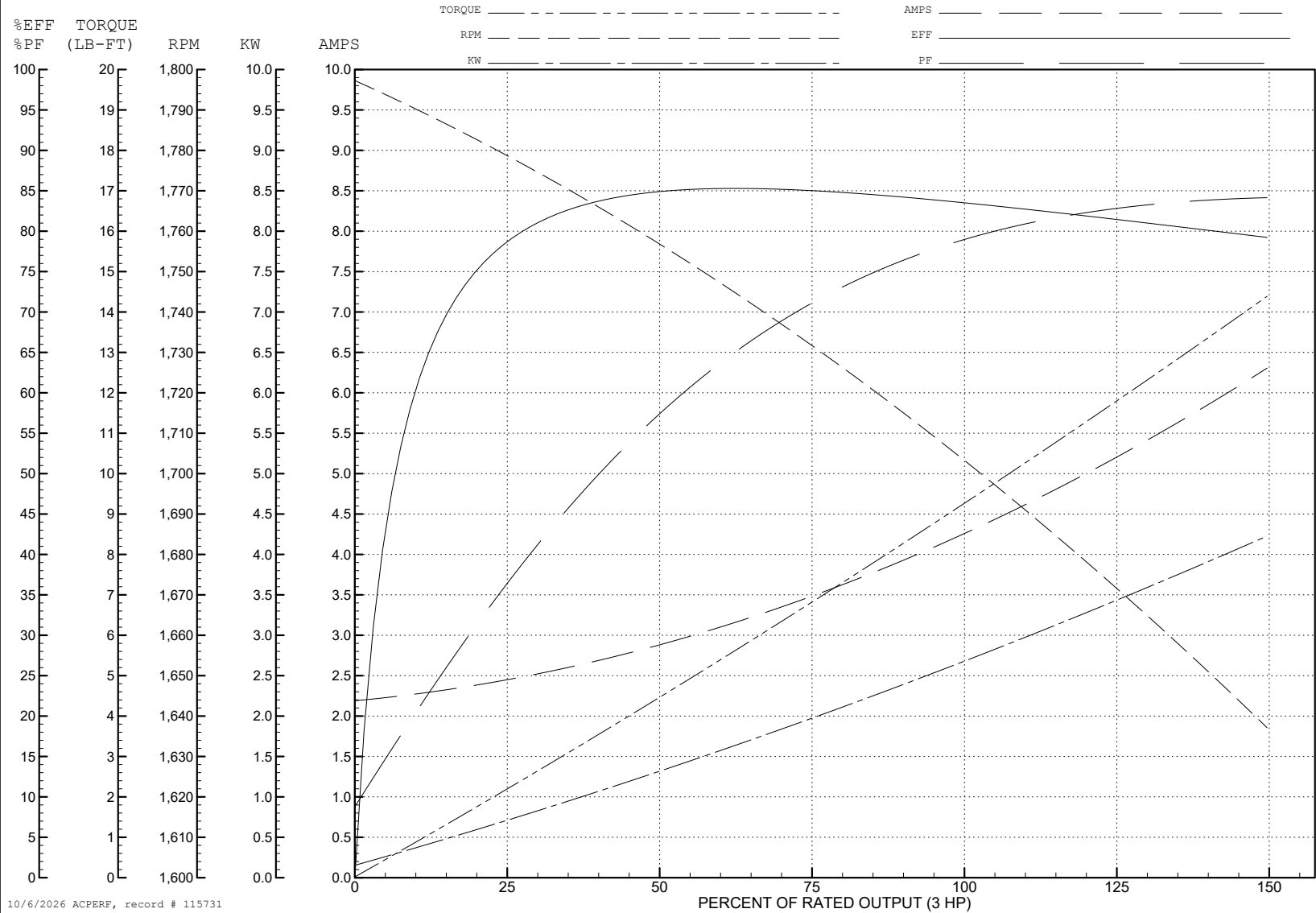
ABB Motors and Mechanical Inc.

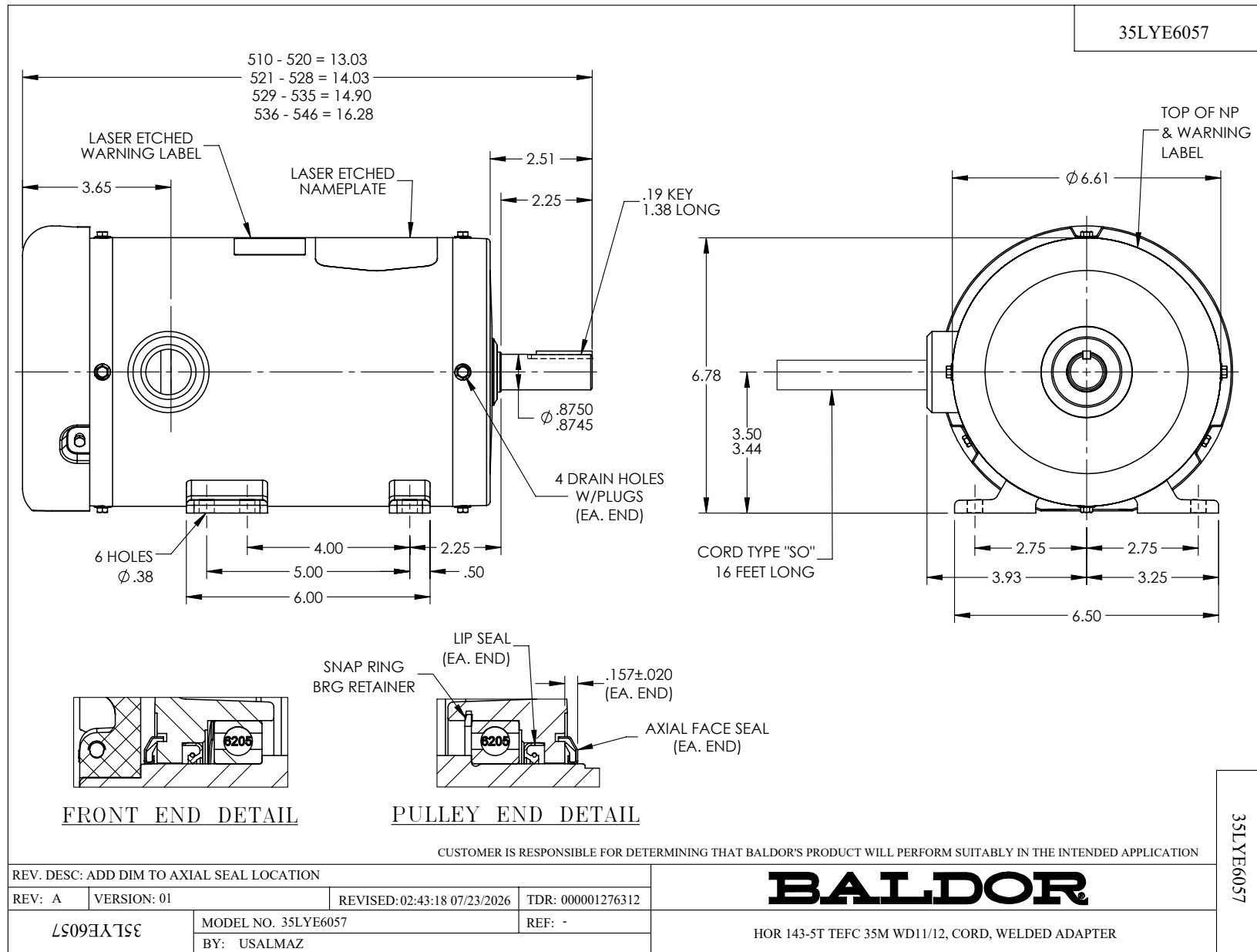
WINDING # 35WGF438

Typical performance - not guaranteed values.

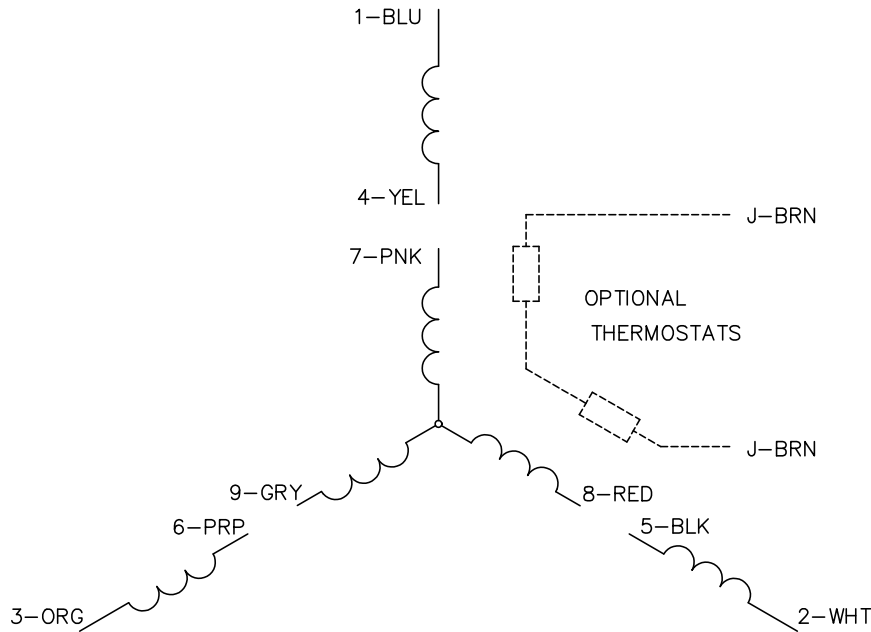
3 HP 3 PH 60 HZ 1700 RPM 460 V 3546M

TORQUES (LB-FT) : PO=42.2 PU=27.1 LR=39.3 LRA=32

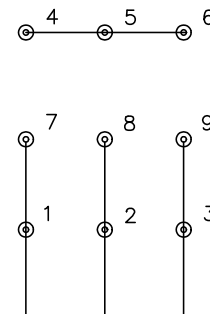




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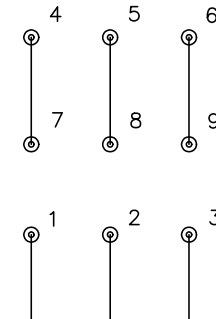


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP REVISED: 01/19/99 10:15 TDR: 0171435

900000

FILE: AAA00005140

MDL: -

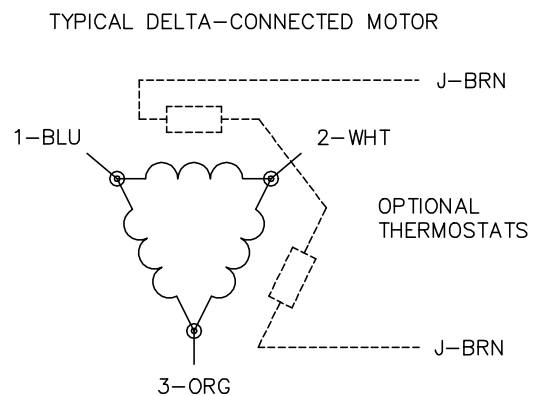
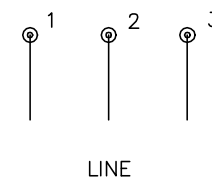
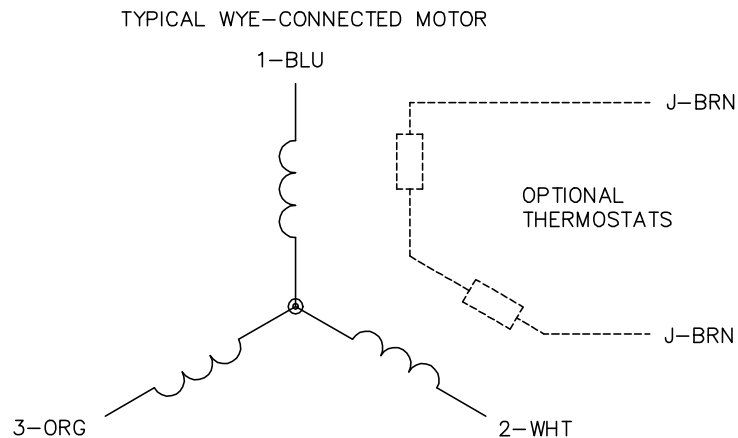
MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005

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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