

ABB BALDOR RELIANCE III

Customer information packet

CWDM3561TP-5

3HP, 1655RPM, 3PH, 60HZ, 145TC, 3540M, TEFC, F3

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	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	575.0 V @ 60 HZ
Agency Approvals	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	3.400 A @ 575.0 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	3.4 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs

Part Detail

Revision	A
Type	AC
Mech. spec.	35E2678
Base	
Status	PRD/A
Elec. spec.	35WGG300
Layout	35LYE2678
Eff. date	08-07-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	09-20-2023

Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	15.54 IN
Power Factor	80
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1655 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

NP1496L									
CAT.NO.	CWDM3561TP-5								
SPEC.	35E2678G300G1								
HP	3								
VOLTS	575								
AMP	3.4								
RPM	1655								
FRAME	145TC		HZ	60			PH	3	
SER.F.	1.00	CODE	J	DES	D		CLASS	H	
NEMA-NOM-EFF	81.5	PF	80						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 86944

Preliminary Data Sheet

Winding: 35WGG300-R001			Type: 3540M		Enclosure: TEFC			
Nameplate Data				575 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3		Full Load Torque		9.59 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		3.4		Breakdown Torque		35.13 LB-FT		
R.P.M.		1655		Pull-up Torque		35.17 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		39.69 LB-FT		
NEMA Design Code		D	KVA Code	J	Starting Current		20.73 A	
Service Factor (S.F.)		1		No-load Current		1.76 A		
NEMA Nom. Eff.		81.5	Power Factor	80	Line-line Res. @ 25°C		8.88 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		118°C
						Locked-rotor Power Factor		71.3
						Rotor inertia		0.289 lb-ft²

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	38	60	72	80	84	87
Efficiency	80.1	85	84.7	82.3	79	74.6
Speed	1766	1732	1694	1649	1598	1537
Line amperes	1.88	2.23	2.75	3.42	4.22	5.21

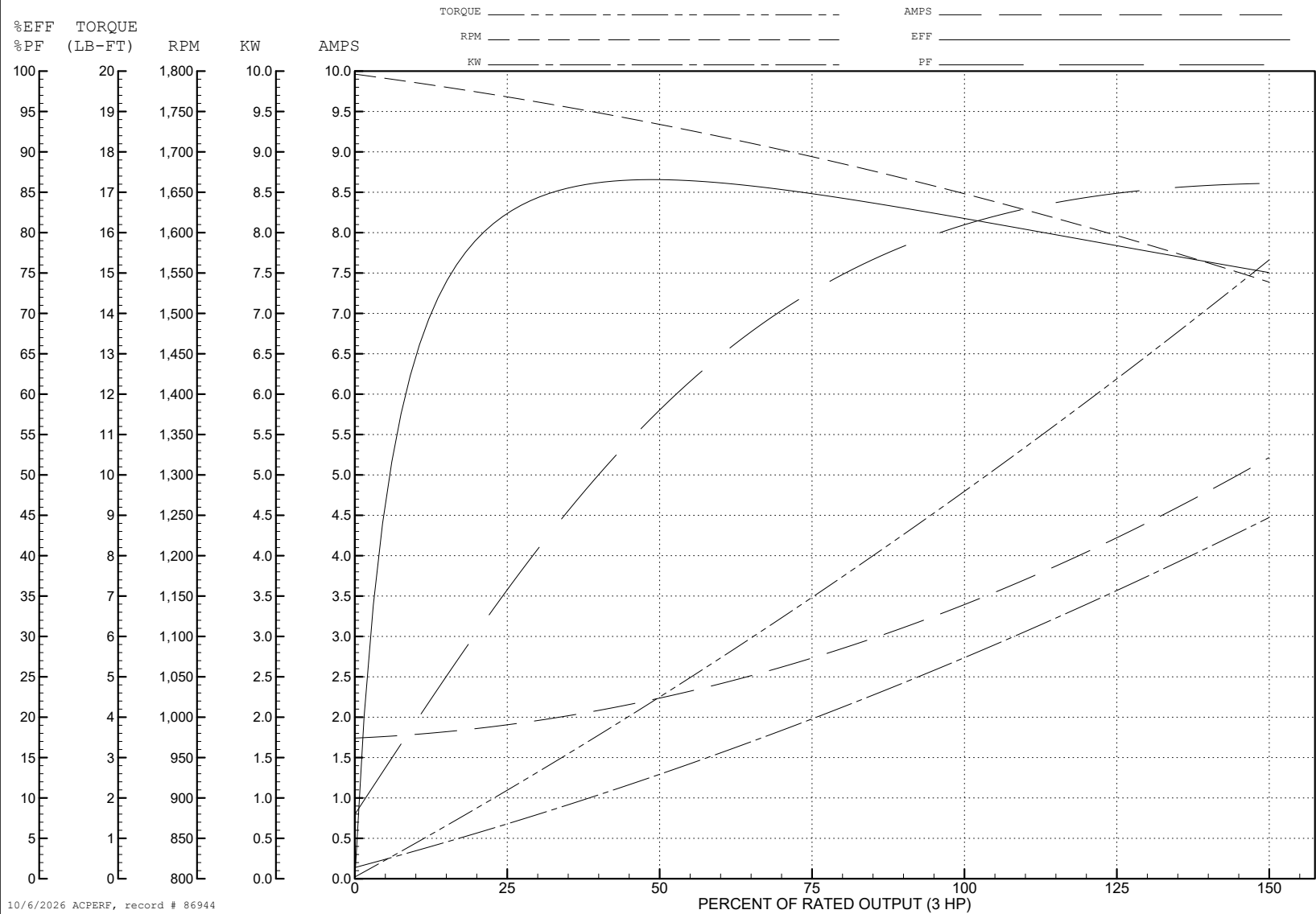
ABB Motors and Mechanical Inc.

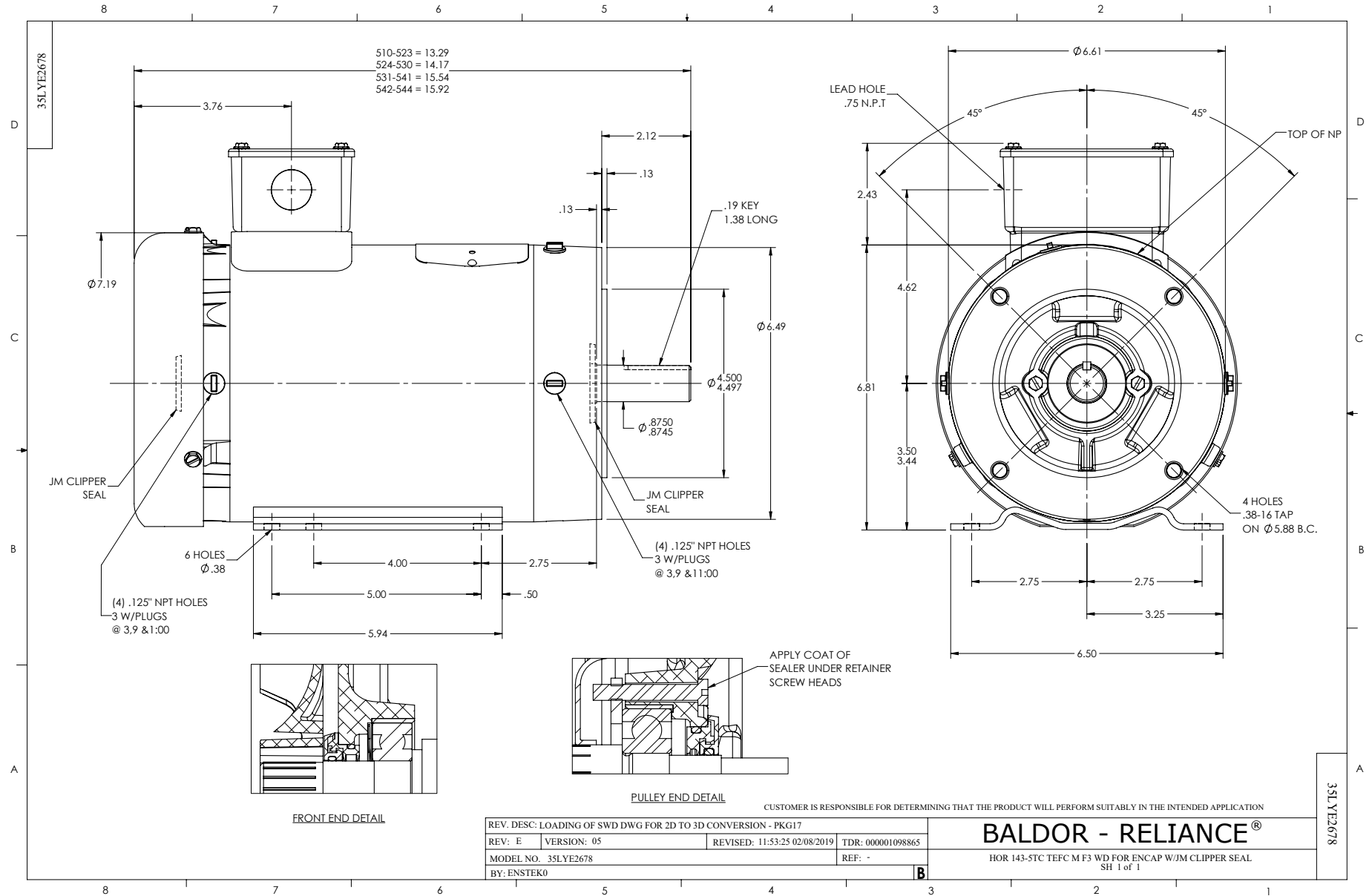
WINDING # 35WGG300

Typical performance - not guaranteed values.

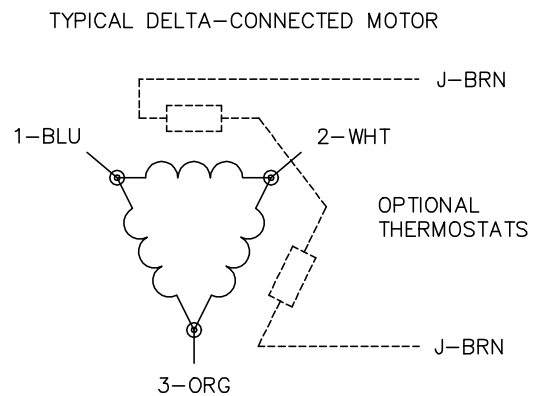
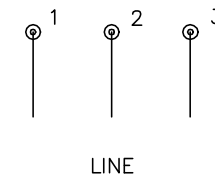
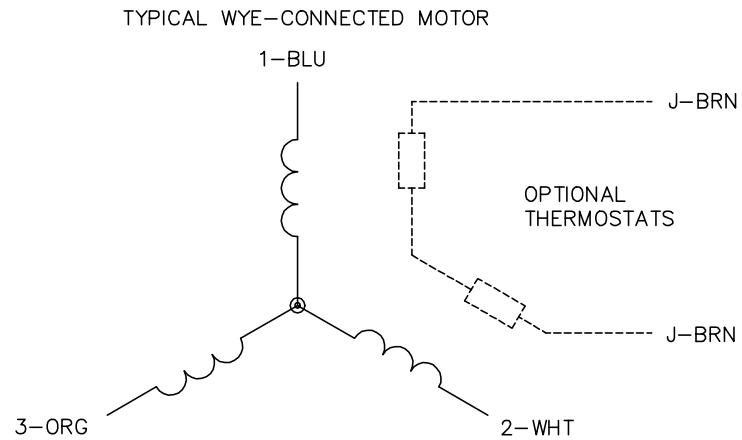
3 HP 3 PH 60 HZ 1655 RPM 575 V 3540M

TORQUES (LB-FT) : PO=35.13 PU=35.17 LR=39.69 LRA=20.73





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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