

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3558-H

2HP, 1765RPM, 3PH, 60HZ, 56HC, 3528M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56HC
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
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	2.650 A @ 460.0 V 5.300 A @ 230.0 V 5.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGZ821
Layout	35LY-000-351
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

High Voltage Full Load Amps	2.7 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.03 IN
Power Factor	81
Product Family	Wash Down All Stainless Steel
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1953A01											
CAT.NO.	CESSWDM3558-H										
SPEC.	35-0000-1374										
HP	2										
VOLTS	230/460										
AMP	5.3/2.65										
RPM	1765										
FRAME	56HC		HZ	60				PH	3		
SER.F.	1.15		CODE	K	DES	B		CLASS	H		
NEMA-NOM-EFF	86.5		PF	81							
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TEFC	SN									
	4:1CT 20:1VT										

AC Induction Motor Performance Data

Record # 87359

Preliminary Data Sheet

Winding: 35WGZ821-R001			Type: 3528M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2		Full Load Torque		5.97 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		5.6/2.8		Breakdown Torque		21 LB-FT	
R.P.M.		1760		Pull-up Torque		11.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		15.1 LB-FT	
NEMA Design Code		B	KVA Code	K		Starting Current	22.5 A
Service Factor (S.F.)		1.15		No-load Current		1.55 A	
NEMA Nom. Eff.		86.5	Power Factor	81	Line-line Res. @ 25°C		9.54 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	64°C
S.F. Amps		6.3/3.15		Temp. Rise @ S.F. Load		77°C	
				Locked-rotor Power Factor		57.9	
				Rotor inertia		0.202 LB-FT2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	57	70	78	82	85	83
Efficiency	79.5	86.2	87.4	87	85.7	83.9	86.3
Speed	1791	1782	1772	1762	1750	1738	1758
Line amperes	1.64	1.91	2.3	2.78	3.33	3.94	3.02

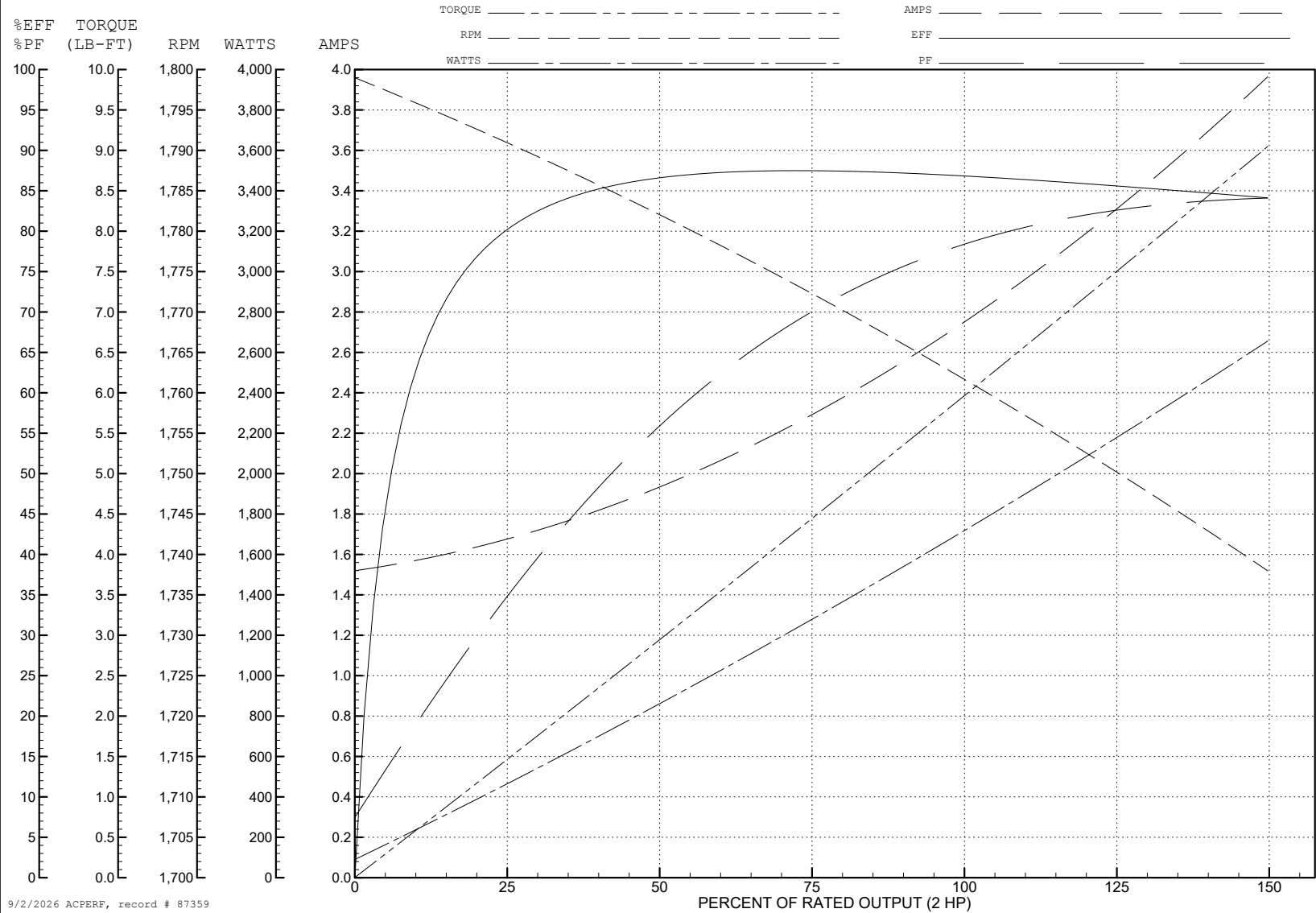
ABB Motors and Mechanical Inc.

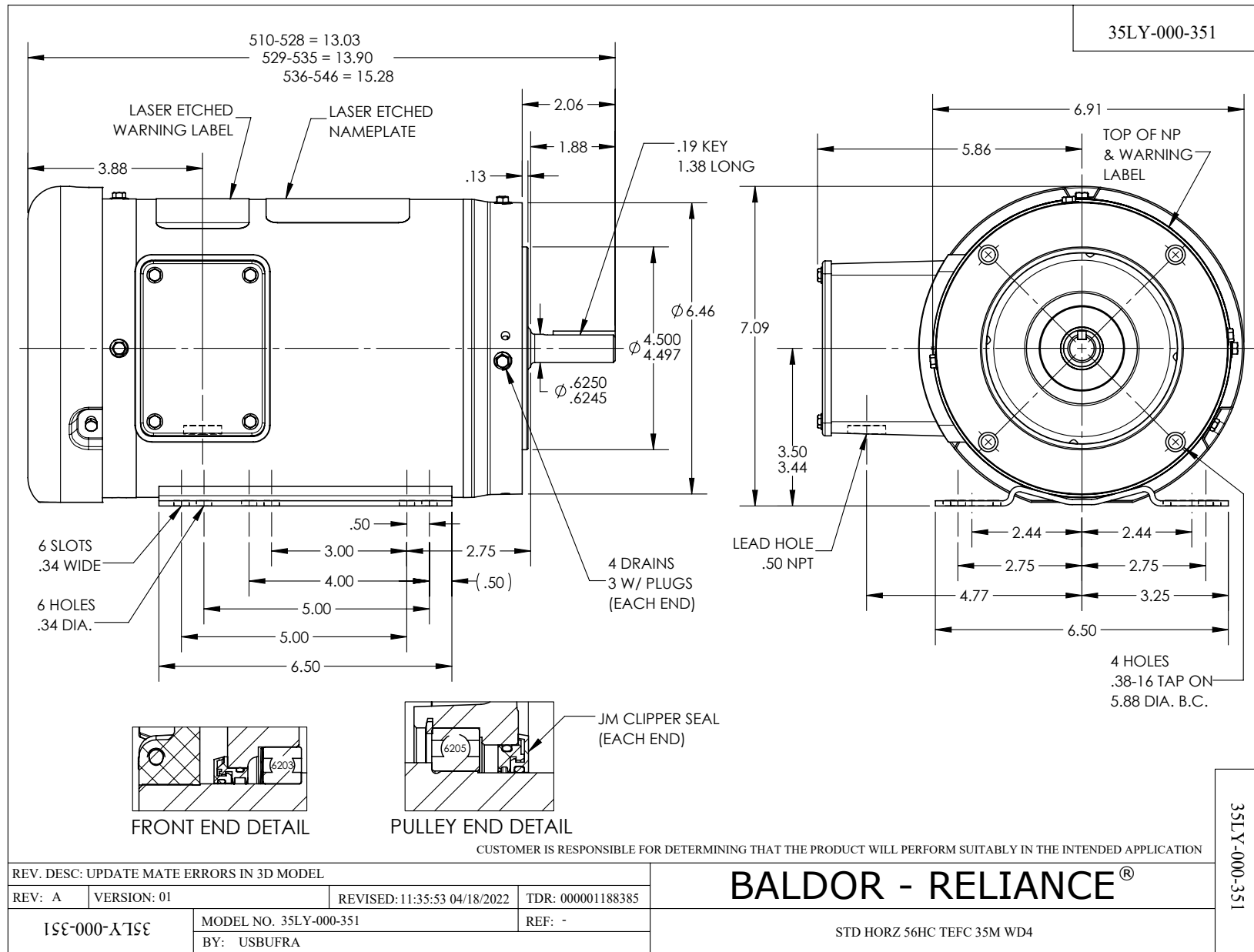
WINDING # 35WGZ821

Typical performance - not guaranteed values.

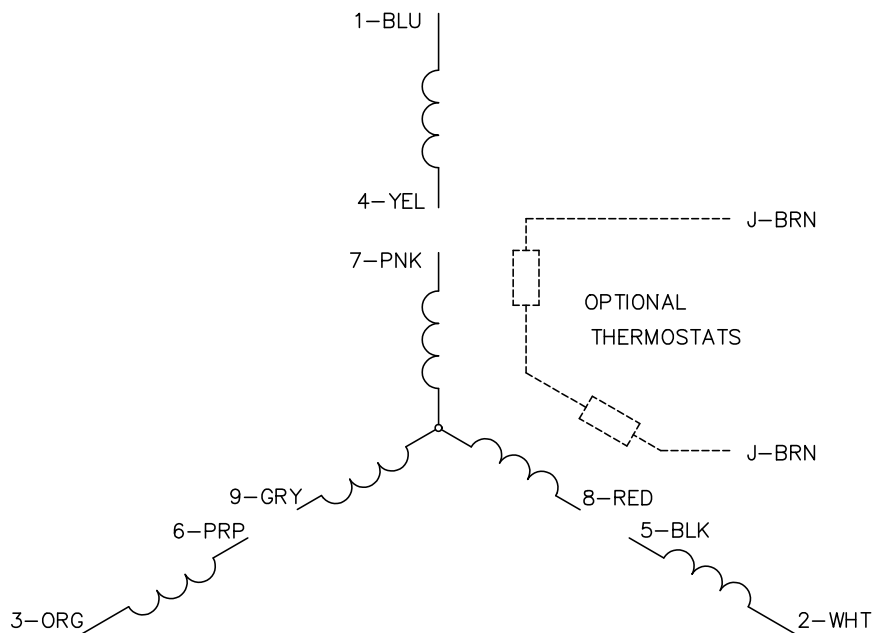
2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=21 PU=11.9 LR=15.1 LRA=22.5

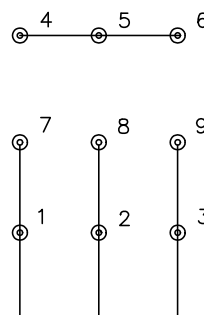




CD0005

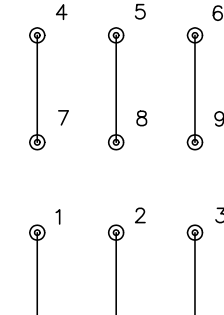


LOW VOLTAGE
(2Y)



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