

ABB BALDOR RELIANCE III

Customer information packet

VEDM3558

2HP, 1760RPM, 3PH, 60HZ, 56C, 3528M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	5.800 A @ 208.0 V 5.600 A @ 230.0 V 2.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	C
Type	AC
Mech. spec.	35E4312
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYE4312
Eff. date	05-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.23 IN
Power Factor	77
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP3504											
CAT NO	VEDM3558										
SPEC.	35E4312G073G1						ENCL	TEFC			
FRAME	56C	HP		2							
VOLTS	230/460										
FLA	5.6/2.8			I.P.		56					
RPM	1760	RPM MAX				2700					
HZ	60	PH	3	CLASS		F					
SER.F.	1.15	DES	B	CC	010A						
NEMA-NOM-EFF	86.5										
RATING	40C AMB-CONT										
DE BRG	6205	ODE BRG				6203					
GREASE	POLYREX EM										
INV.TYPE		C HP FR		60	C HP TO		90				
CT HZ FROM	6	CT HZ TO		60	VT HZ FROM		6	VT HZ TO		60	
SER.NO	SFA 6.26/3.13										

AC Induction Motor Performance Data

Record # 87157

Typical performance - not guaranteed values

Winding: 35WGG073-R001			Type: 3528M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		5.99 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		5.6/2.8	Breakdown Torque		20.5 LB-FT	
R.P.M.		1760	Pull-up Torque		13.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	15 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	22.5 A	
Service Factor (S.F.)		1.15	No-load Current		1.62 A	
NEMA Nom. Eff.	86.5	Power Factor	77	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	35	55	68	76	81	84	80
Efficiency	78.3	85.3	86.9	86.5	85.3	83.6	86.1
Speed	1791	1782	1771	1760	1748	1734	1754
Line amperes	1.71	1.97	2.34	2.82	3.36	3.97	3.13

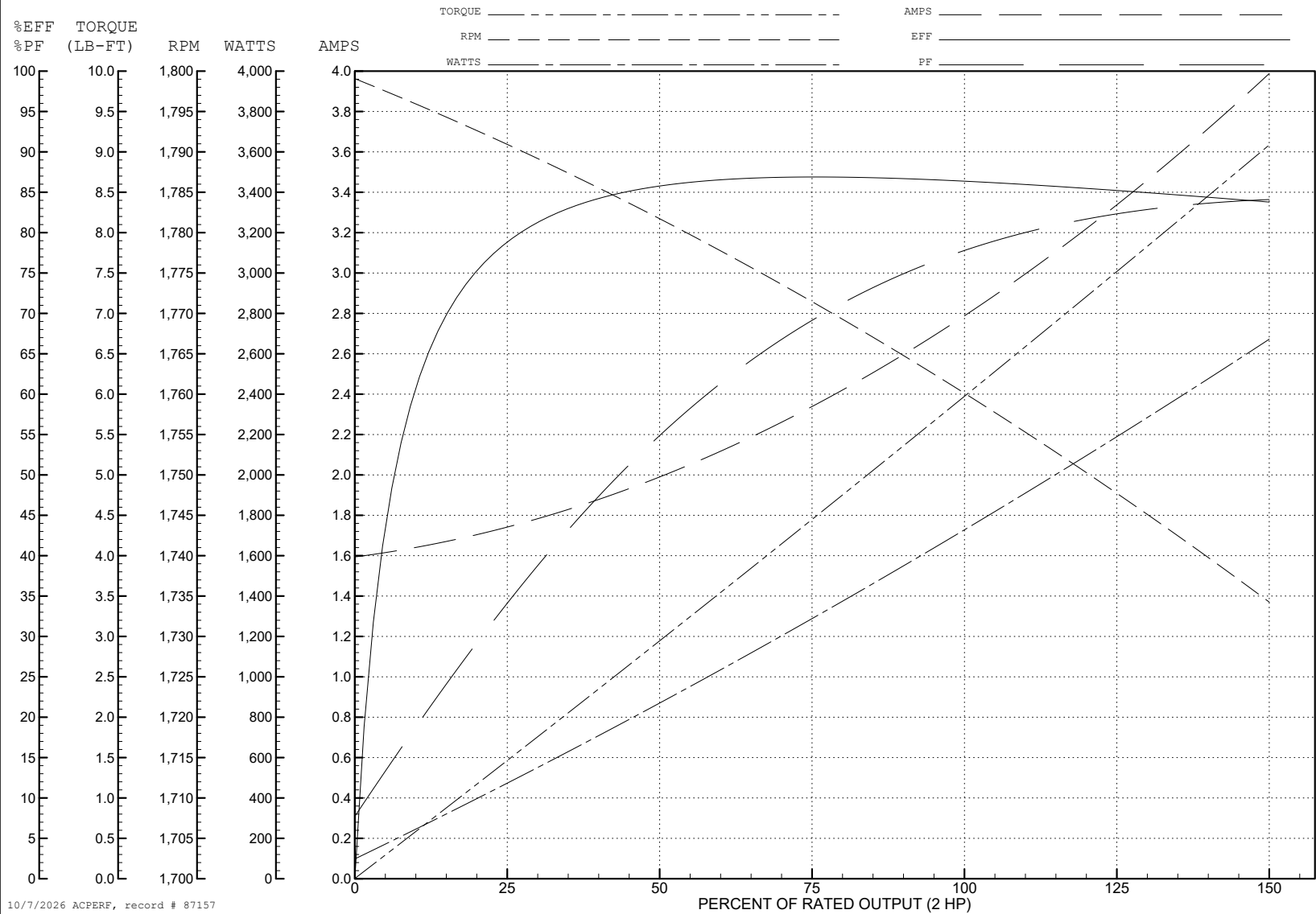
ABB Motors and Mechanical Inc.

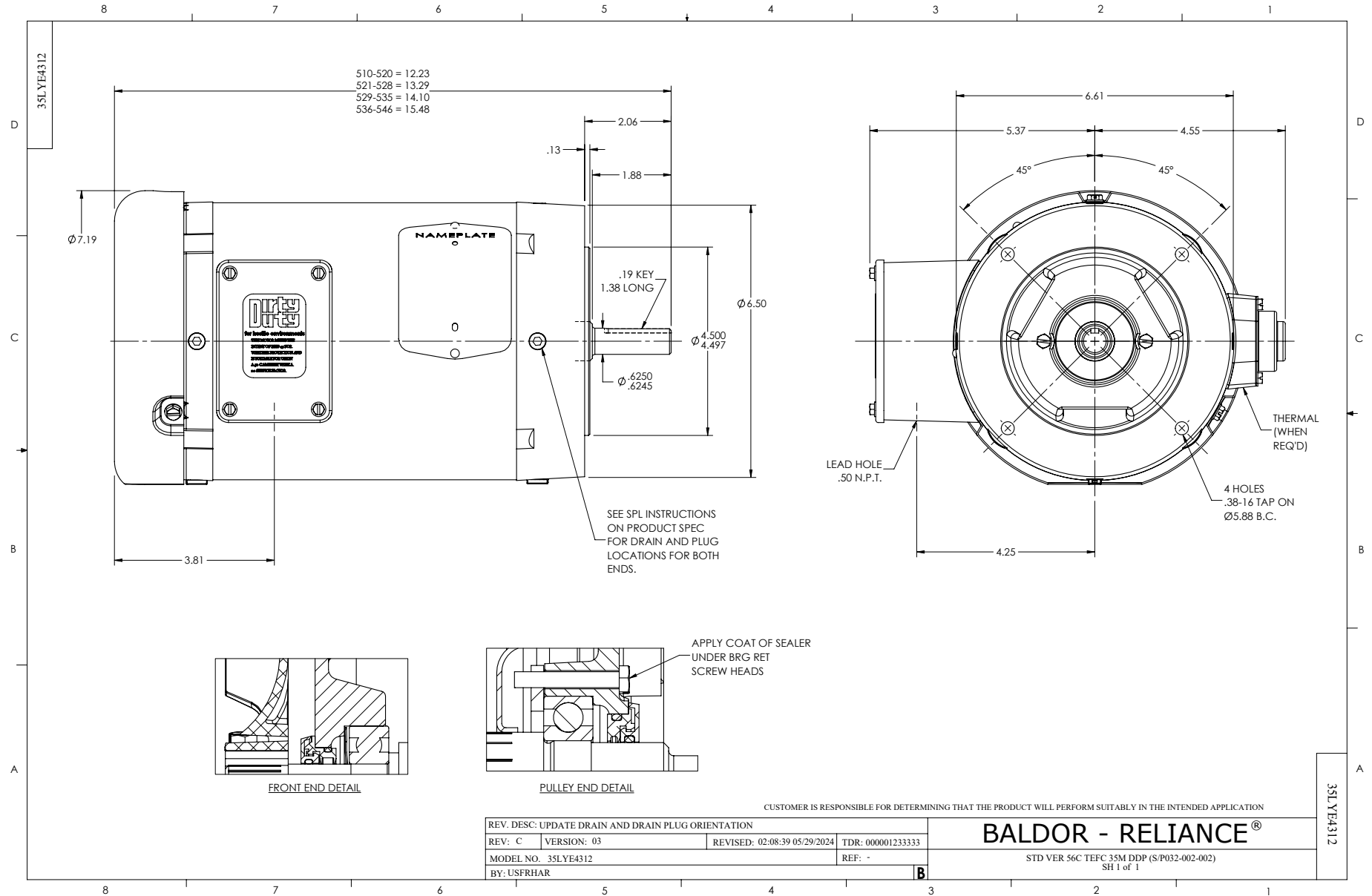
WINDING # 35WGG073

Typical performance - not guaranteed values.

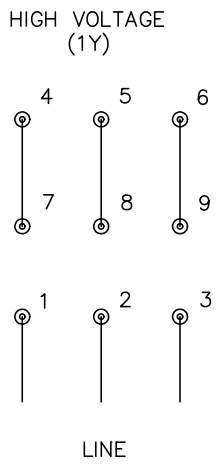
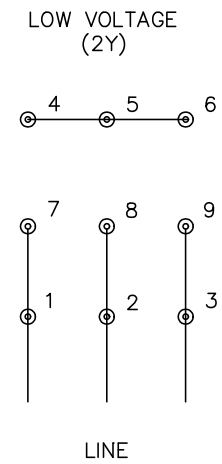
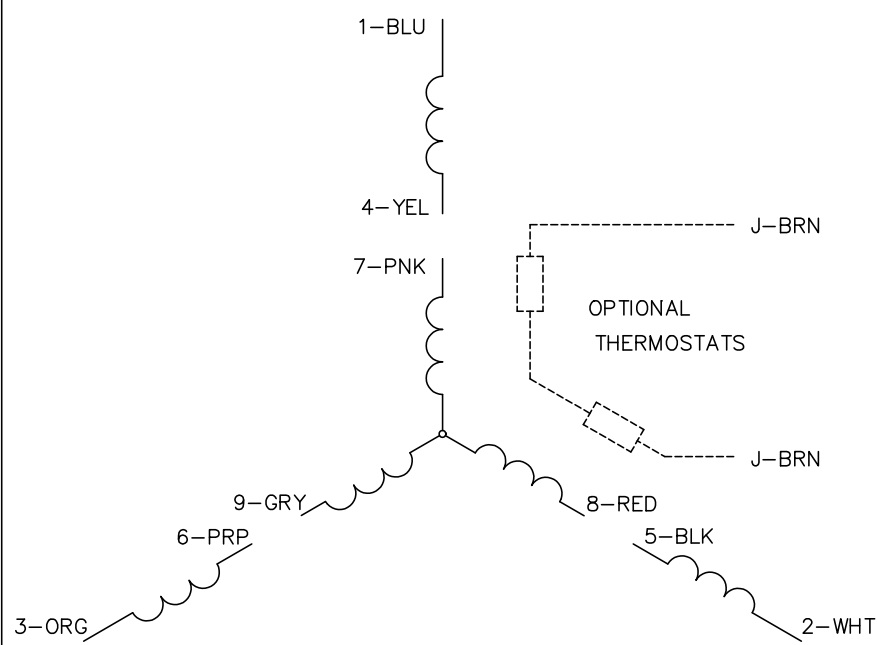
2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5





CD0005



- 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