

ABB BALDOR RELIANCE III

Customer information packet

VRBM3561T

3HP, 1710RPM, 3PH, 60HZ, 145TC, 3540M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Aluminum
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	8.800 A @ 208.0 V 8.200 A @ 230.0 V 4.100 A @ 460.0 V
Design Code	D
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Standards	NEMA

Part Detail

Revision	E
Type	AC
Mech. spec.	75J035
Base	
Status	PRD/A
Elec. spec.	35WGG299
Layout	75LYJ035
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Motor Type	3540M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.68 IN
Power Factor	80
Product Family	General Purpose
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1710 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	VRBM3561T								
SPEC.	75J035G299G1								
HP	3								
VOLTS	230/460								
AMP	8.2/4.1								
RPM	1710								
FRAME	145TC		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	D	CLASS	F		
NEMA-NOM-EFF	84	PF	80						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6205					
ENCL	TEFC	SN							
	SFA 9.4/4.7								

AC Induction Motor Performance Data

Record # 86941

Preliminary Data Sheet

Winding: 35WGG299-R001			Type: 3540M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		9.18 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8.2/4.1	Breakdown Torque		34.8 LB-FT		
R.P.M.		1710	Pull-up Torque		27.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		30.8 LB-FT	
NEMA Design Code		D	KVA Code	J	Starting Current		30 A
Service Factor (S.F.)		1.15		No-load Current		2.25 A	
NEMA Nom. Eff.		84	Power Factor	80	Line-line Res. @ 25°C		5.66 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		87°C	
S.F. Amps		9.4/4.7		Temp. Rise @ S.F. Load		107°C	
				Locked-rotor Power Factor		59.7	
				Rotor inertia		0.289 lb-ft²	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	58	71	79	83	86	82
Efficiency	80.8	86.4	87.1	85.8	83.7	80.9	84.1
Speed	1783	1765	1746	1721	1694	1662	1694
Line amperes	2.39	2.81	3.41	4.18	5.06	6.08	4.68

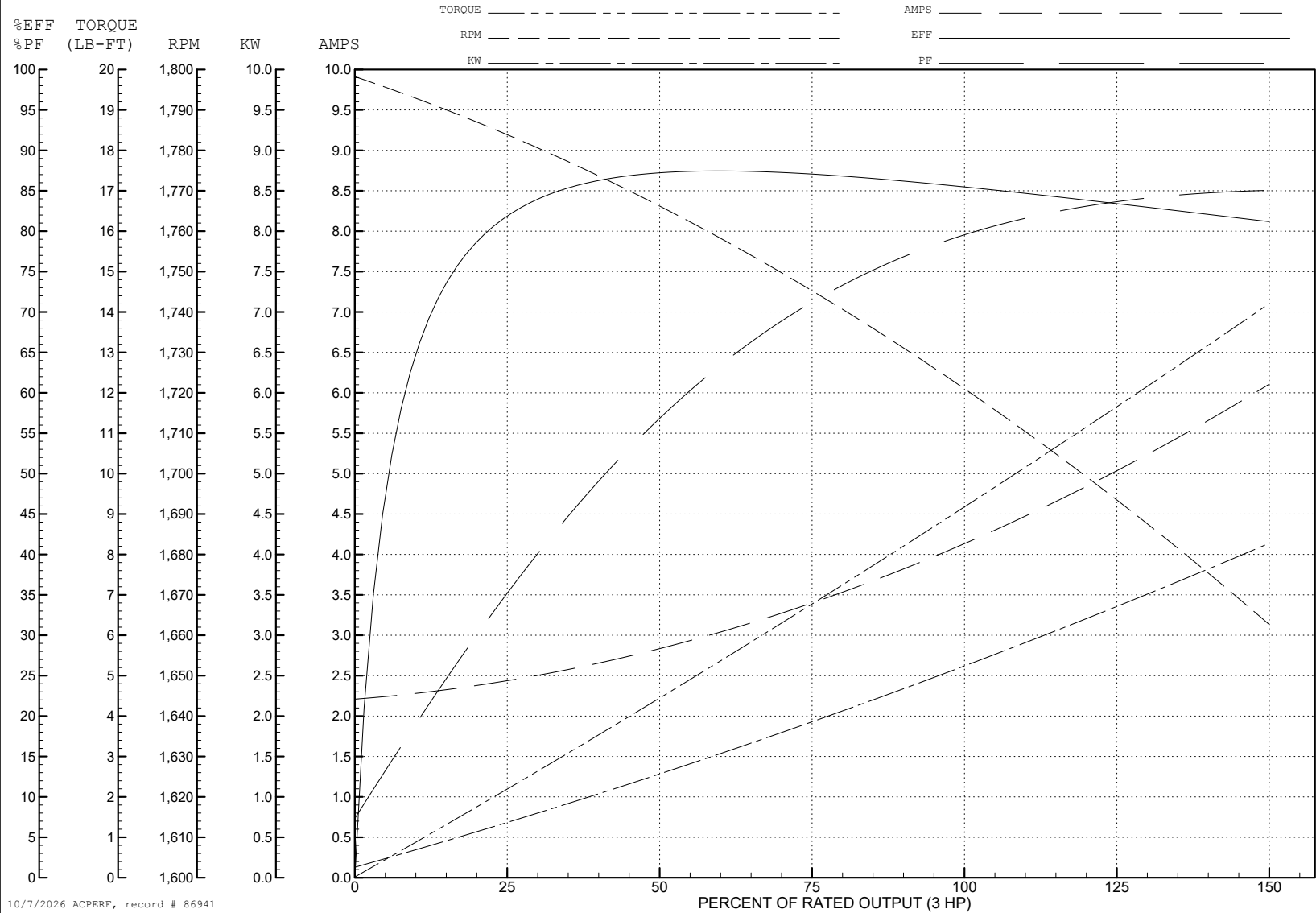
ABB Motors and Mechanical Inc.

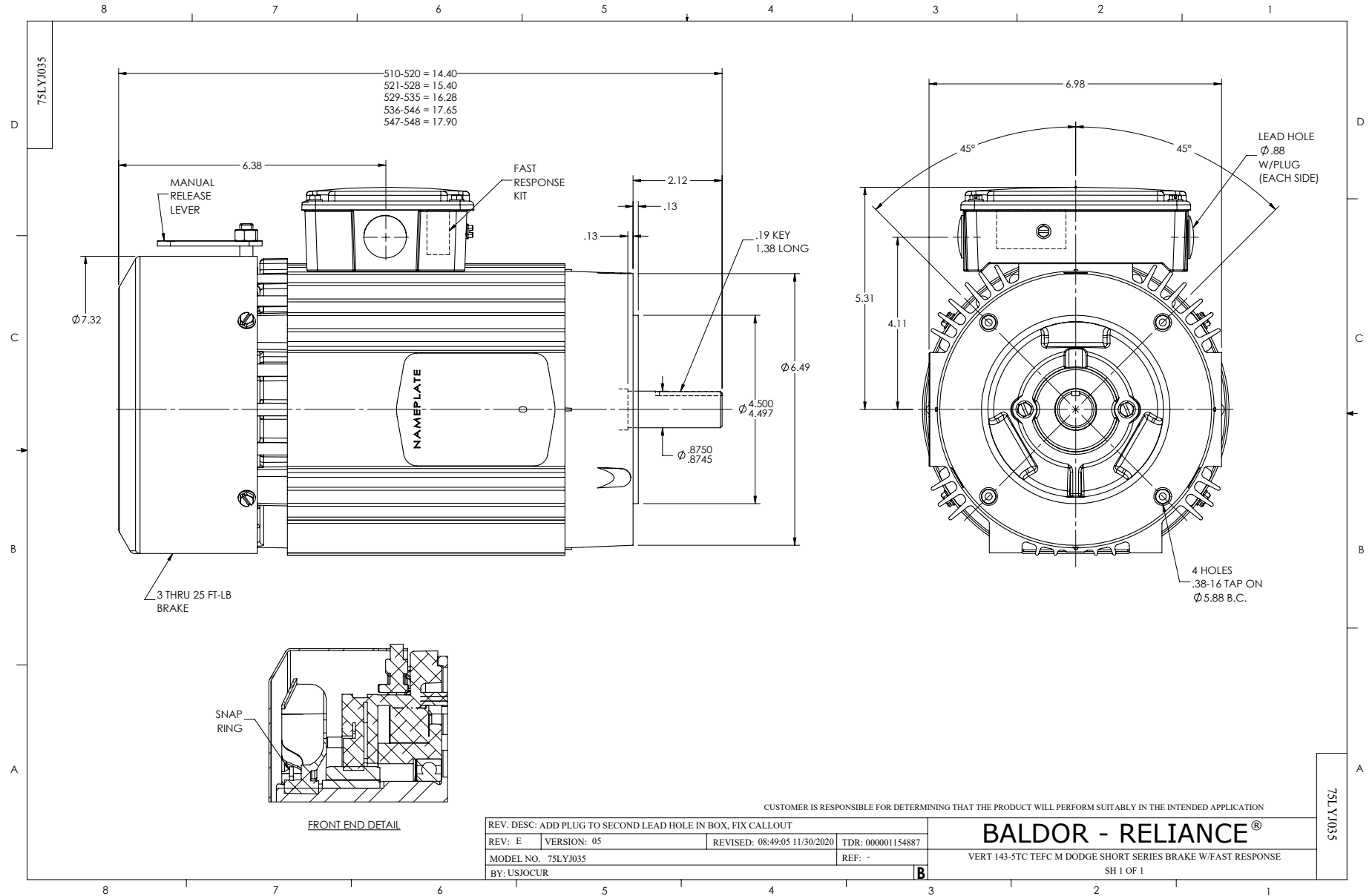
WINDING # 35WGG299

Typical performance - not guaranteed values.

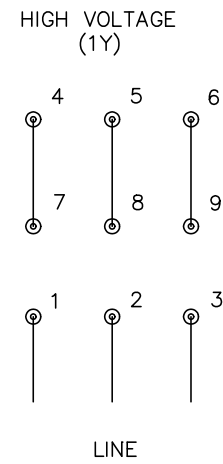
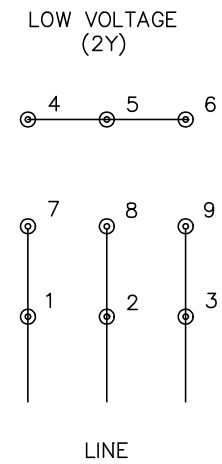
3 HP 3 PH 60 HZ 1710 RPM 460 V 3540M

TORQUES (LB-FT): PO=34.8 PU=27.3 LR=30.8 LRA=30





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
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005