

ABB BALDOR RELIANCE III

Customer information packet

ECR9056T

5HP, 1160RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	7.500 A @ 460.0 V 15.800 A @ 208.0 V 15.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	L
Type	AC
Mech. spec.	07N167
Base	
Status	PRD/A
Elec. spec.	07WGR839
Layout	07LYN167
Eff. date	07-06-2022
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	01-22-2015

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.58 IN
Power Factor	70
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1160 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

NP3294											
CAT NO	ECR9056T										
SPEC.	07N167R839G1					ENCL	TEFC				
FRAME	215T	HP		5							
VOLTS	230/460										
FLA	15/7.5			I.P.		55					
RPM	1160	RPM MAX			1800						
HZ	60	PH	3	CLASS		F					
SER.F.	1.25	DES	A	CC	010A						
NEMA-NOM-EFF	89.5										
RATING	40C AMB-CONT										
DE BRG	6309	ODE BRG			6307						
GREASE	POLYREX EM										
INV.TYPE	PWM	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 17.8/8.9										

AC Induction Motor Performance Data

Record # 48681

Typical performance - not guaranteed values

Winding: 07WGR839-R001			Type: 0748M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		22.7 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		15/7.5	Breakdown Torque		82.5 LB-FT		
R.P.M.		1160	Pull-up Torque		50.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		60.5 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		55.6 A
Service Factor (S.F.)		1.25		No-load Current		4.04 A	
NEMA Nom. Eff.		89.5	Power Factor	70	Line-line Res. @ 25°C		1.63 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps		17.8/8.9		Temp. Rise @ S.F. Load		68°C	
				Locked-rotor Power Factor		22.2	
				Rotor inertia		1.19 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	63	70	74	76	74
Efficiency	84.9	89.9	90.8	90.1	89.2	88	89.2
Speed	1190	1182	1174	1165	1154	1142	1154
Line amperes	4.34	5.07	6.11	7.47	8.89	10.5	8.89

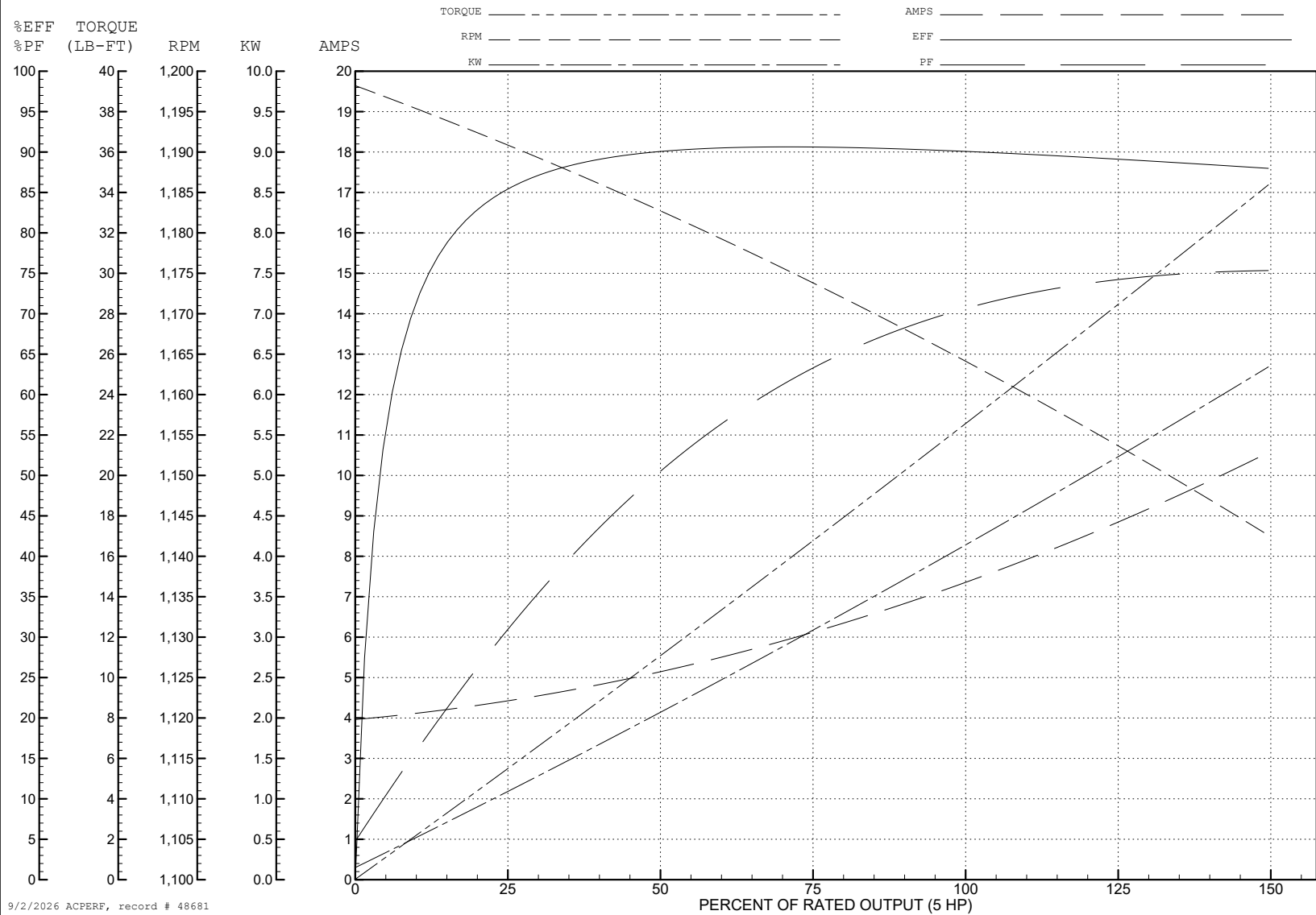
ABB Motors and Mechanical Inc.

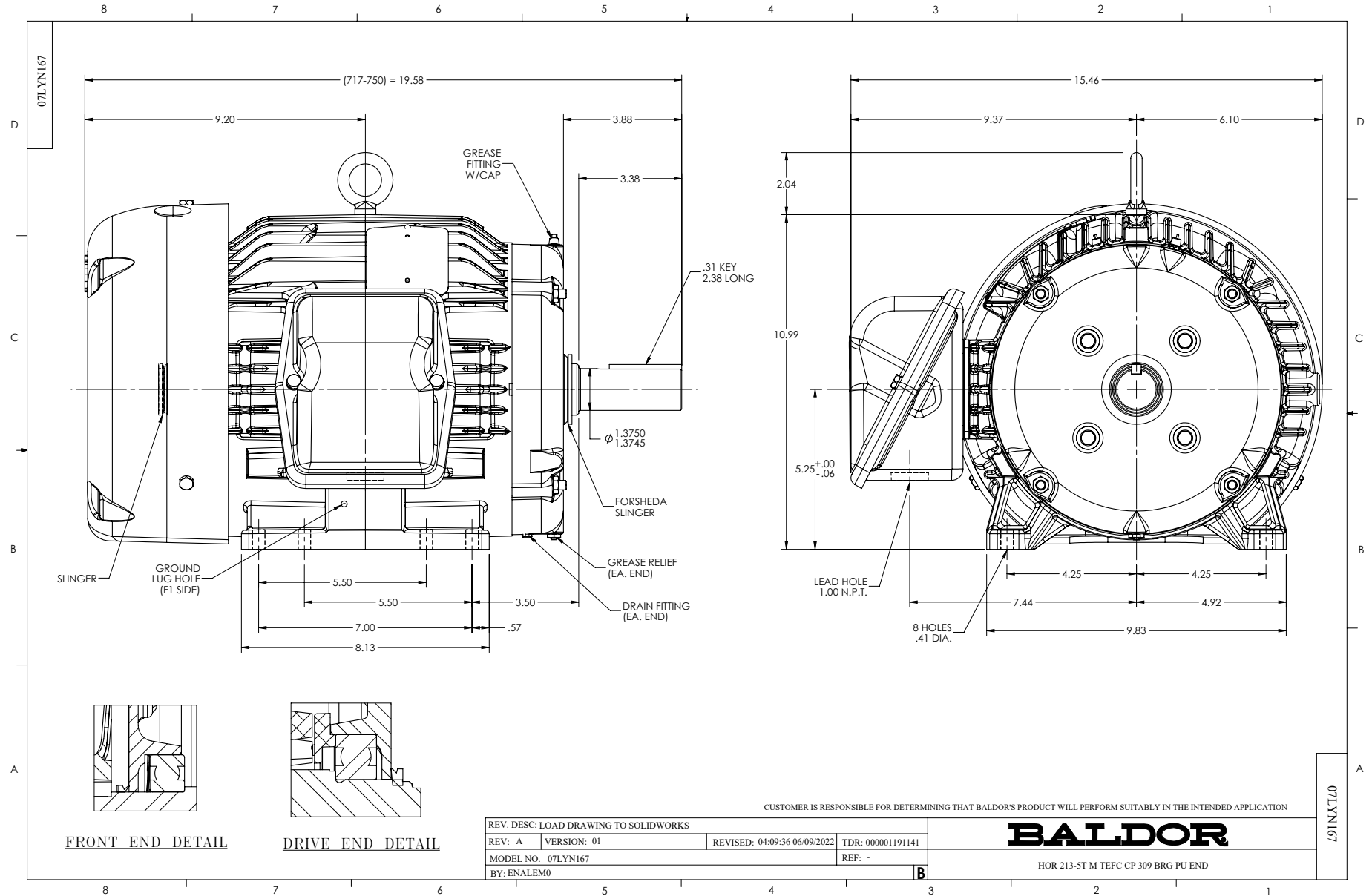
WINDING # 07WGR839

Typical performance - not guaranteed values.

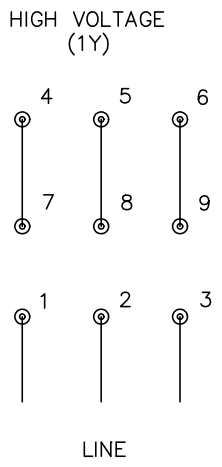
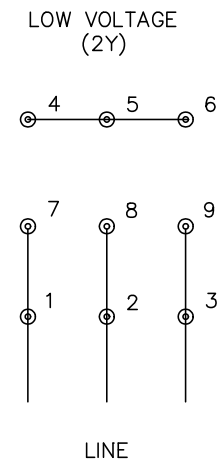
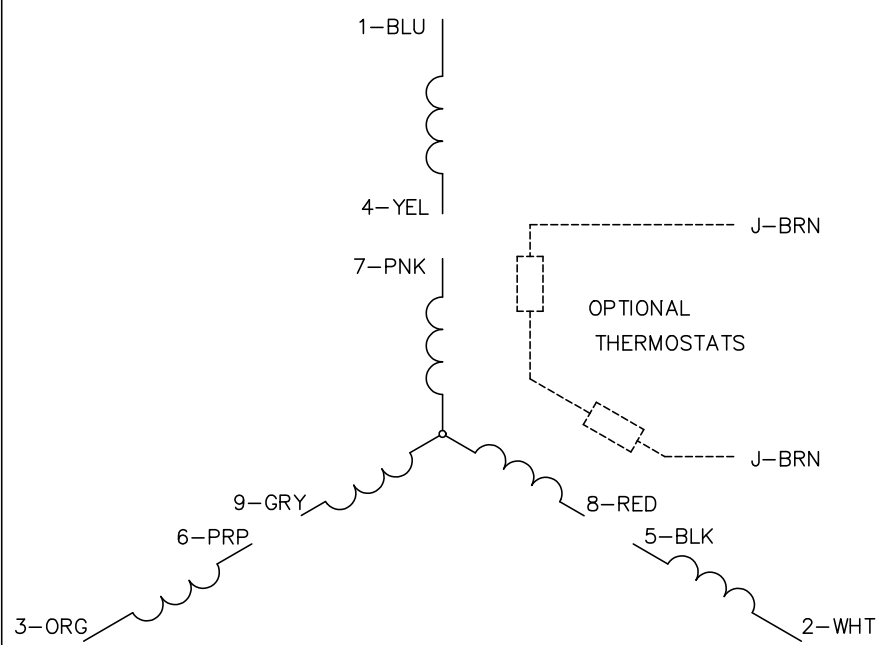
5 HP 3 PH 60 HZ 1160 RPM 460 V 0748M

TORQUES (LB-FT): PO=82.5 PU=50.3 LR=60.5 LRA=55.6





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