

ABB BALDOR RELIANCE III

Customer information packet

GNEM3313T-G

10HP//7.5KW, 1770//1470 1/MINRPM, 3PH, 60//

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	215T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ 7.500 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ 460.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	WEEE UR IE3 CSA CE
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	31.600 A @ 190.0 V 27.600 A @ 208.0 V 27.400 A @ 230.0 V 15.800 A @ 380.0 V

Part Detail

Revision	G
Type	AC
Mech. spec.	37J839
Base	
Status	PRD/A
Elec. spec.	37WGZ674
Layout	37LYJ839
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	04
Leads	9#14 Y
Proprietary	False
Created date	04-12-2023

	13.700 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	13.7 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1470 rpm
	1770 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

NP4304L									
CAT.NO.	GNEM3313T-G								
SPEC.	37J839Z674G1								
HP	10HP//7.5KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	28-26.8/13.4//32/16								
R.P.M. (1/MIN)	1770//1470					WT.	65KG		KG
FRAME	215T		HZ	60//50		I.P.	23		
SER.F.	1.15	CODE	L	DES.	A	CLASS	H		
NOM.EFF.	91.7//90.4		% (100%)						
P.F.	76	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6307		ODE	6206					
ENCL	OPSB	SN							
	IE3-60HZ 92.5(75%) 91.5(50%)								
	IE3-50HZ-91.7(75%) 91.6(50%)								
	SFA 31-30/15//34/17								

AC Induction Motor Performance Data

Record # 102540

Typical performance - not guaranteed values

Winding: 37WGZ674-R002				Type: 3748M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10HP//7.5KW		Full Load Torque		29.7 LB-FT		
Volts		208-230/460//190/380		Start Configuration		direct on line		
Full Load Amps		28-26.8/13.4//32/16		Breakdown Torque		131 LB-FT		
R.P.M.		1770//1470		Pull-up Torque		58.7 LB-FT		
Hz		60//50 Phase		3		Locked-rotor Torque		77.9 LB-FT
NEMA Design Code		A KVA Code		L		Starting Current		119 A
Service Factor (S.F.)		1.15		No-load Current		7.22 A		
NEMA Nom. Eff.		91.7 Power Factor		76		Line-line Res. @ 25°C		0.85311 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		33°C		
S.F. Amps		31-30/15//34/17		Temp. Rise @ S.F. Load		40°C		
				Locked-rotor Power Factor		36.5		
				Rotor inertia		1.18 lb-ft²		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	56	69	76	80	82	78
Efficiency	86.5	91.5	92.5	92.5	92	91.2	92.2
Speed	1793.9	1788.5	1782.5	1776.1	1769.6	1762.5	1772
Line amperes	7.79	9.19	11.1	13.4	16	18.8	15

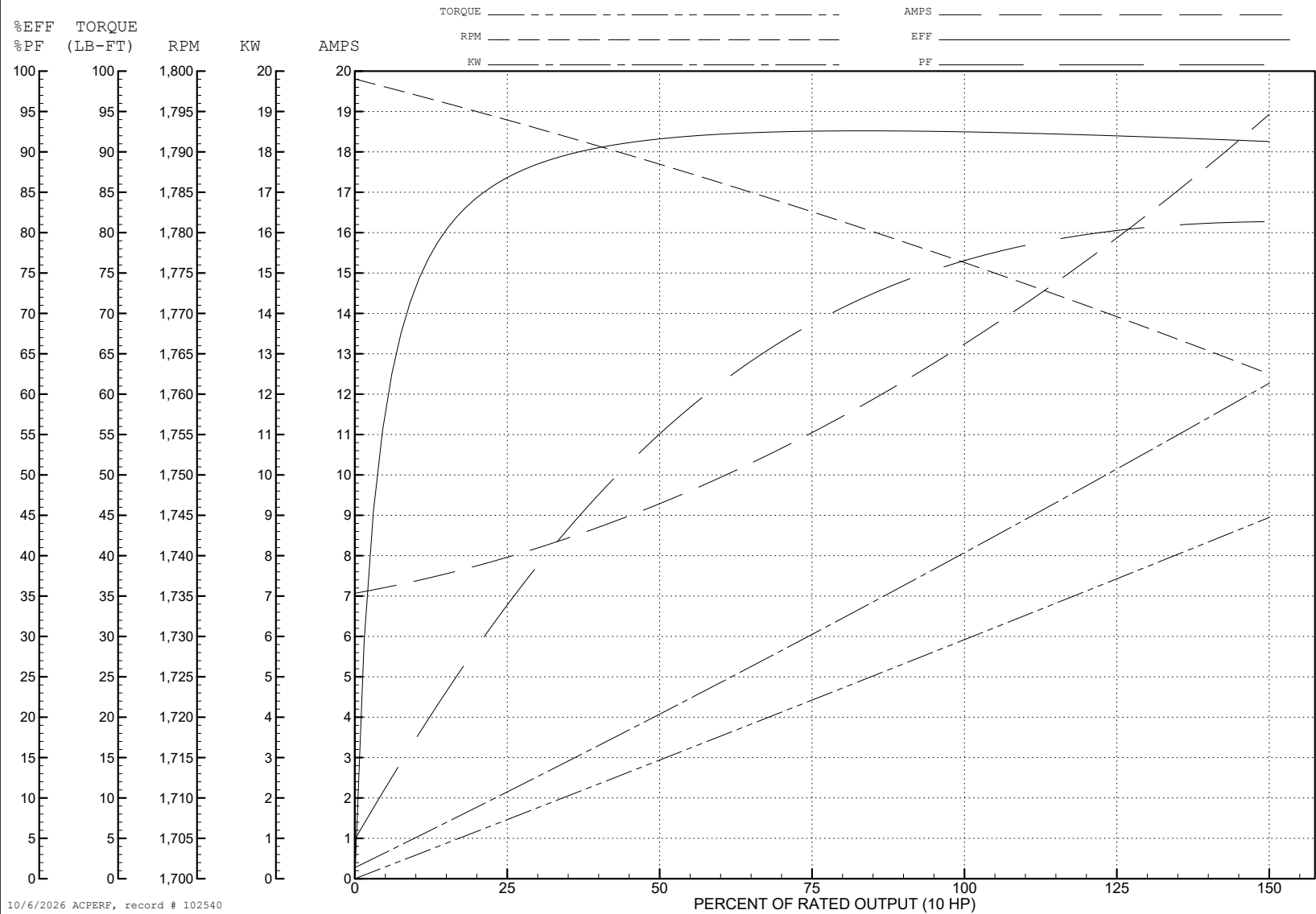
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WINDING # 37WGZ674

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1776.1 RPM 460 V 3748M

TORQUES (LB-FT): PO=131 PU=58.7 LR=77.9 LRA=119



AC Induction Motor Performance Data

Record # 102541

Typical performance - not guaranteed values

Winding: 37WGZ674-R002				Type: 3748M		Enclosure: OPSB	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		10HP//7.5KW		Full Load Torque		35.86 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		28-26.8/13.4//32/16		Breakdown Torque		113 LB-FT	
R.P.M.		1770//1470		Pull-up Torque		53.7 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		77.9 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		109 A
Service Factor (S.F.)		1.15		No-load Current		6.92 A	
NEMA Nom. Eff.		91.7	Power Factor	76	Line-line Res. @ 25°C		0.85035 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C	
S.F. Amps		31-30/15//34/17		Temp. Rise @ S.F. Load		54°C	
				Locked-rotor Power Factor		40.6	
				Rotor inertia		1.18 lb-ft²	

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	82	83	81
Efficiency	88.2	91.6	91.7	90.9	90.2	89.6	90.5
Speed	1492.1	1484.7	1476.6	1468.1	1462.5	1457.9	1465
Line amperes	7.8	9.74	12.4	15.5	17.6	19.1	16.8

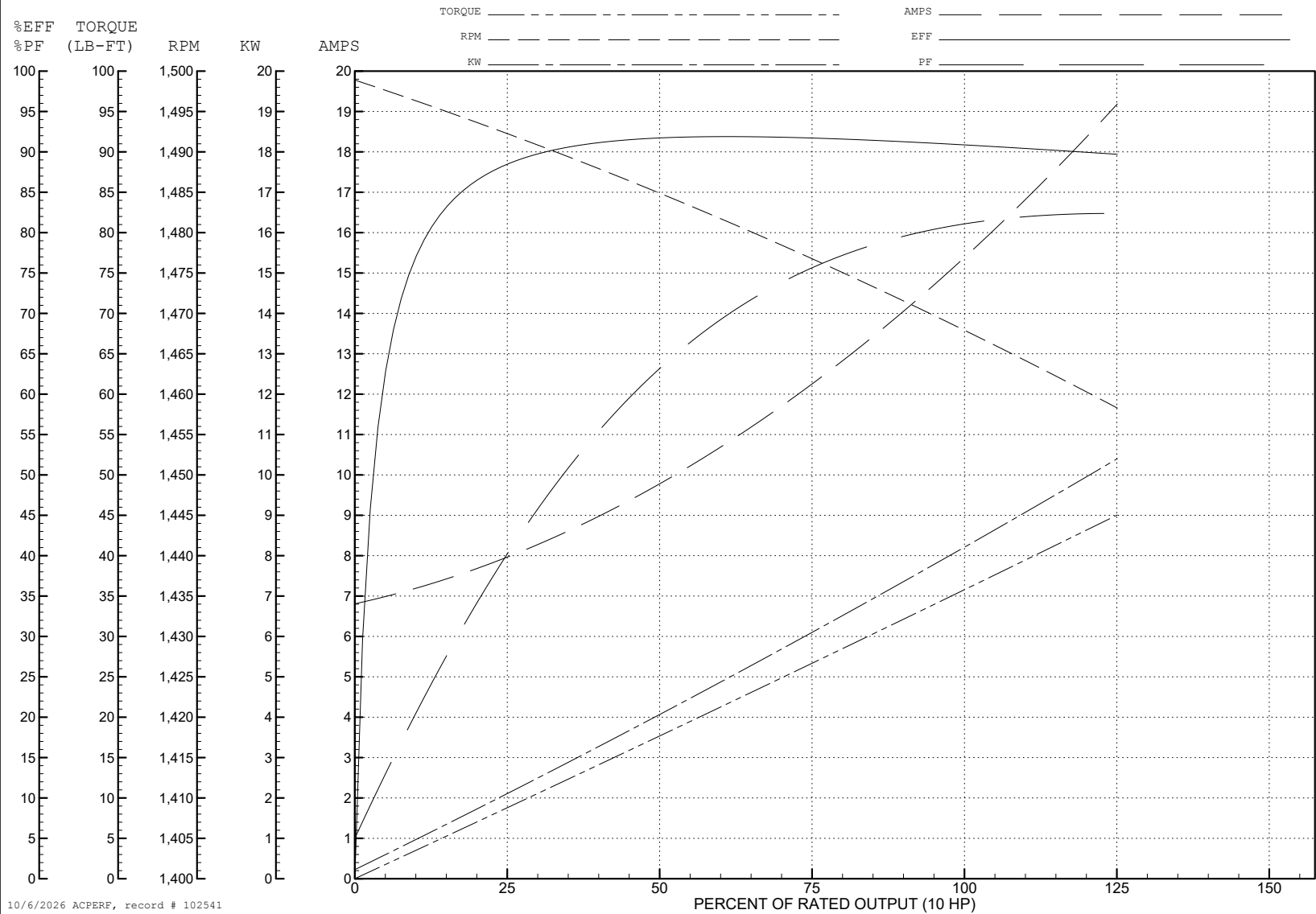
ABB Motors and Mechanical Inc.

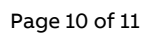
WINDING # 37WGZ674

Typical performance - not guaranteed values.

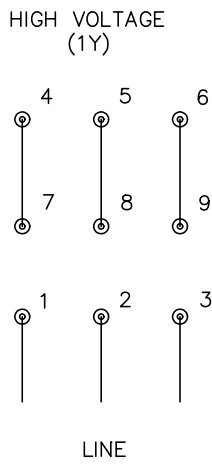
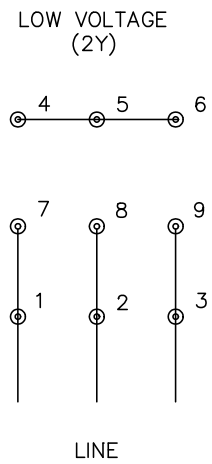
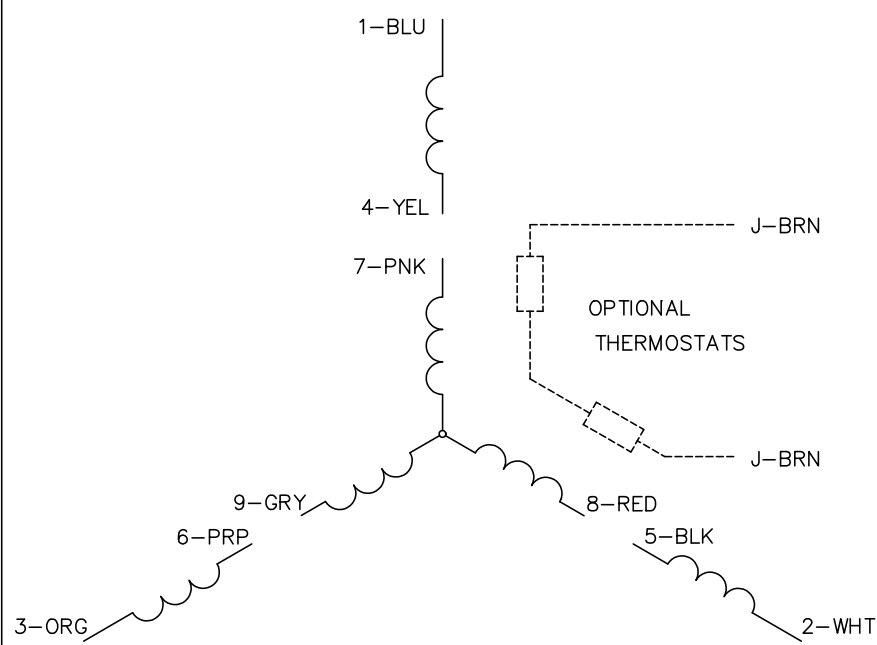
10 HP 3 PH 50 HZ 1468.1 RPM 380 V 3748M

TORQUES (LB-FT): PO=113 PU=53.7 LR=77.9 LRA=109





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