

ABB BALDOR RELIANCE III

Customer information packet

CEM3215T-G

2HP, 1165RPM, 3PH, 60HZ, 184TC, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	184TC
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	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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
Current @ Voltage	6.800 A @ 230.0 V 3.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	3.4 a

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS947
Layout	36LY-000-161
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	09-15-2020

Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3636M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.50 IN
Power Factor	63
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1165 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

NP3553LUA									
CAT.NO.	CEM3215T-G								
SPEC.	36-0000-0413								
HP	2								
VOLTS	230/460								
AMPS	6.8/3.4								
RPM	1165								
FRAME	184TC		HZ	60			PH	3	
SF	1.15	CODE	L	DES	B	CLASS	H		
NEMA NOM. EFF	87.5	PF	63						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6206		ODE	6205					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	N/A								

AC Induction Motor Performance Data

Record # 39004

Typical performance - not guaranteed values

Winding: 36WGS947-R002			Type: 3636M		Enclosure: OPSB			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		2	Full Load Torque		9.01 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		6.8/3.4	Breakdown Torque		35.3 LB-FT			
R.P.M.		1165	Pull-up Torque		19.7 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		25.1 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		23.9 A	
Service Factor (S.F.)		1.15		No-load Current		2.26 A		
NEMA Nom. Eff.		87.5	Power Factor		63	Line-line Res. @ 25°C		4.9075 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		24°C		
S.F. Amps				Temp. Rise @ S.F. Load		28°C		

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	55	62	68	72	66
Efficiency	77.9	85.5	87.6	88	87.6	86.8	87.8
Speed	1193.3	1187	1180.2	1173.2	1165.2	1155.9	1168
Line amperes	2.37	2.62	2.99	3.43	3.96	4.54	3.75

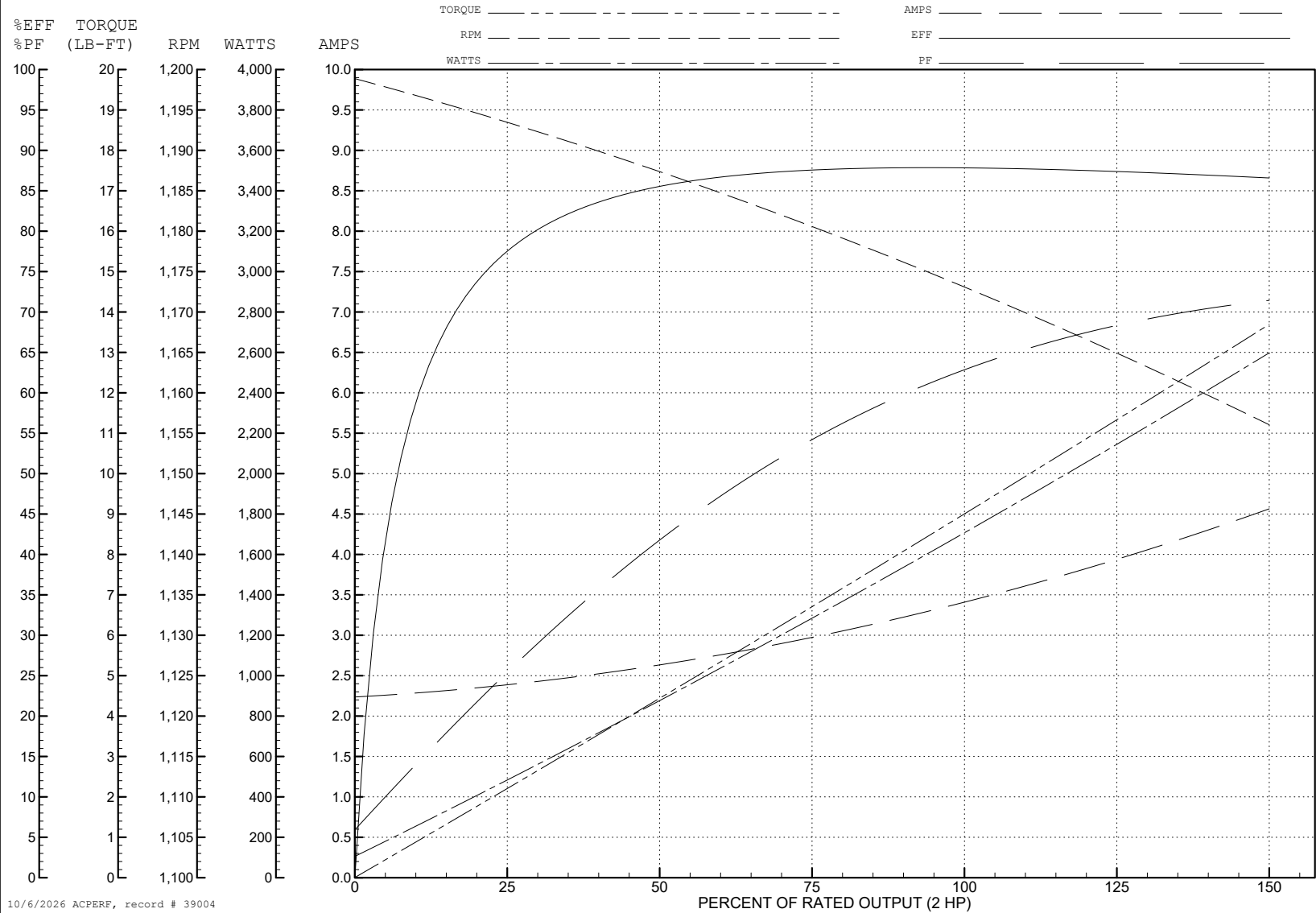
ABB Motors and Mechanical Inc.

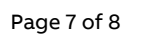
WINDING # 36WGS947

Typical performance - not guaranteed values.

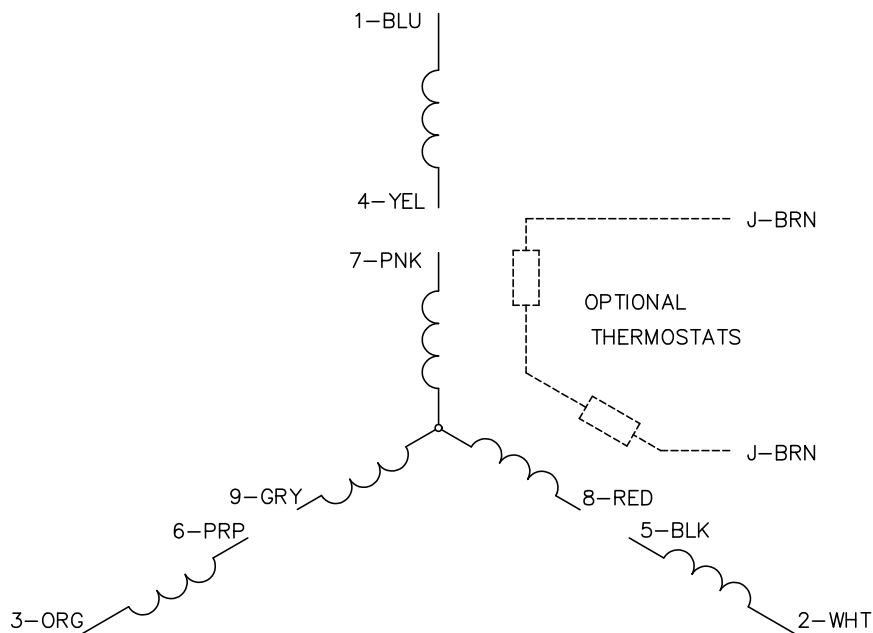
2 HP 3 PH 60 HZ 1165 RPM 460 V 3636M

TORQUES (LB-FT) : PO=35.3 PU=19.7 LR=25.1 LRA=23.9

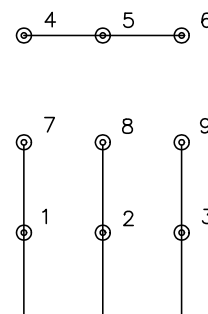




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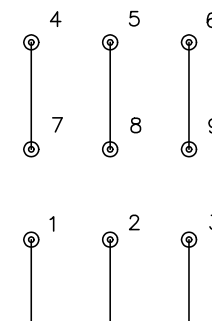


LOW VOLTAGE
(2Y)



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