

ABB BALDOR RELIANCE III

Customer information packet

CEM3614T-G

2HP, 1175RPM, 3PH, 60HZ, 184TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	6.400 A @ 230.0 V 3.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGR104
Layout	36LYN147
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	12-17-2019

Insulation Class	H
Inverter Code	Inverter Ready
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	3644M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.05 IN
Power Factor	66
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	1175 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

NP3441LUA									
CAT.NO.	CEM3614T-G								
SPEC	36-0000-0253								
HP	2								
VOLTS	230/460								
AMPS	6.4/3.2								
RPM	1175								
FRAME	184TC		HZ	60		PH	3		
SF	1.15	CODE	L	DES	B	CLASS	H		
NEMA NOM. EFF	88.5	PF	66						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6206		ODE	6205					
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
50HZ 2HP 190/380V 7.4/3.7A									
SF1.0									

Parts List

Part number	Description	Quantity
SA377290	SA 36-0000-0253	1.000 ea
RA367205	RA 36-0000-0253	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3441LUA	AL SUPER-E VPWM INV RDY,UL EEV,NEMA PREM	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
36FH4009A102	IEC FH GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 ea
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
36EP3301A23	PU ENDPLATE, ENCL. 182-4TC 206 BRG. W/GR	1.000 ea
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
BP5310A02	AEGIS SH GRD ASSY W/RETAINER RING	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea

51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
G0PA1000	PKG GRP, PRINT PK1026A06	1.000 ea
HW2501E19	STD SQUARE KEY .25 SQUARE X 2.125 LONG	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 80304

Typical performance - not guaranteed values

Winding: 36WGR104-R009			Type: 3644M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		8.95 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		6.4/3.2	Breakdown Torque		33.6 LB-FT		
R.P.M.		1175	Pull-up Torque		17.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		23.4 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		23 A
Service Factor (S.F.)		1.15		No-load Current		2.01 A	
NEMA Nom. Eff.		88.5	Power Factor	66	Line-line Res. @ 25°C		4.95 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C	
S.F. Amps				Temp. Rise @ S.F. Load		41°C	
				Locked-rotor Power Factor		28.9	
				Rotor inertia		0.413 LB-FT2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	46	57	66	70	73	68
Efficiency	79	86.6	88.4	88.9	88.9	87.3	88.9
Speed	1196	1189	1182	1175	1167	1157	1170
Line amperes	2.11	2.38	2.76	3.21	3.75	4.38	3.53

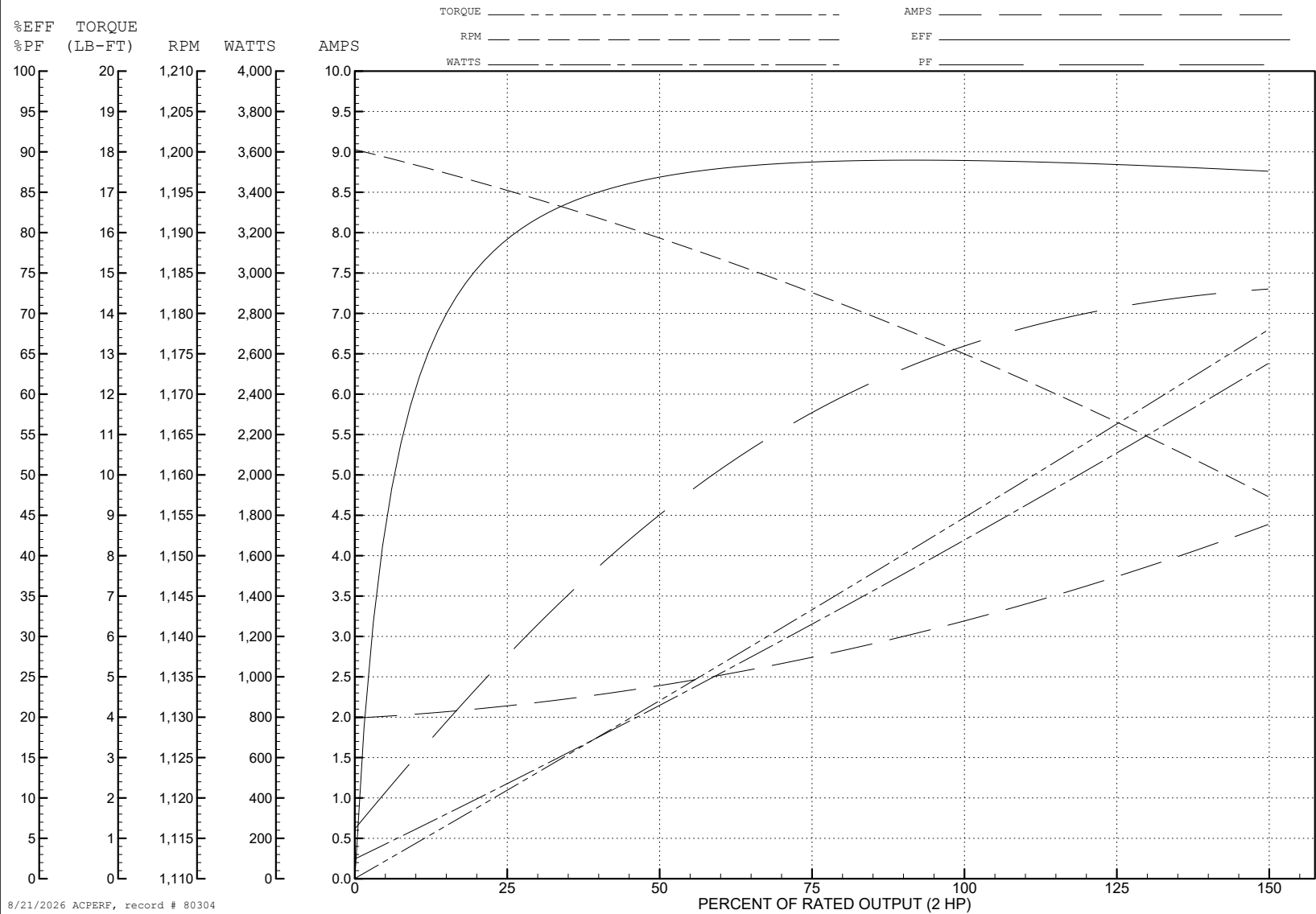
ABB Motors and Mechanical Inc.

WINDING # 36WGR104

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1175 RPM 460 V 3644M

TORQUES (LB-FT): PO=33.6 PU=17.9 LR=23.4 LRA=23





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