

ABB BALDOR RELIANCE III

Customer information packet

CEM3212T-G

5HP, 3450RPM, 3PH, 60HZ, 182TC, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	182TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	6.000 A @ 460.0 V 12.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	6.0 a

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS040
Layout	36LY-000-161
Eff. date	01-02-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	09-29-2020

Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3622M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.62 IN
Power Factor	91
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	3450 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

NP3553L									
CAT.NO.	CEM3212T-G								
SPEC	36-0000-0425								
HP	5								
VOLTS	230/460								
AMPS	12/6								
RPM	3450								
FRAME	182TC		HZ	60			PH	3	
SF	1.15	CODE	K	DES	A	CLASS	H		
NEMA NOM. EFF	86.5	PF	91						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SER							
DE	6206		ODE	6205					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									

Parts List

Part number	Description	Quantity
SA386564	SA 36-0000-0425	1.000 ea
RA376859	RA 36-0000-0425	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3553L	ALUM SUPER-E,VPWM INV READY,UL EV,CC,NEM	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
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 ea
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 ea
36EP3204B00	MASTER ODE,205 BRG,GRSR	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
36EP3403A03	PU E.P., TC, OPEN, 206 BRG, LESS TIGHT S	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
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	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
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	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
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea

AC Induction Motor Performance Data

Record # 53355

Typical performance - not guaranteed values

Winding: 36WGS040-R015			Type: 3622M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		7.66 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		12/6	Breakdown Torque		29.99 LB-FT	
R.P.M.		3450	Pull-up Torque		17.89 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	22.24 LB-FT	
NEMA Design Code	A	KVA Code	K	Starting Current	49.63 A	
Service Factor (S.F.)		1.15	No-load Current		1.99 A	
NEMA Nom. Eff.	86.5	Power Factor	91	Line-line Res. @ 25°C	3.07 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		34°C	
S.F. Amps			Temp. Rise @ S.F. Load		42°C	
			Locked-rotor Power Factor		49.2	
			Rotor inertia		0.0988 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	79	87	90	92	93	92
Efficiency	81.4	86.5	87.6	86.6	85.3	83.5	86.1
Speed	3566	3535	3503	3465	3423	3379	3445
Line amperes	2.5	3.49	4.68	6.06	7.56	9.15	6.91

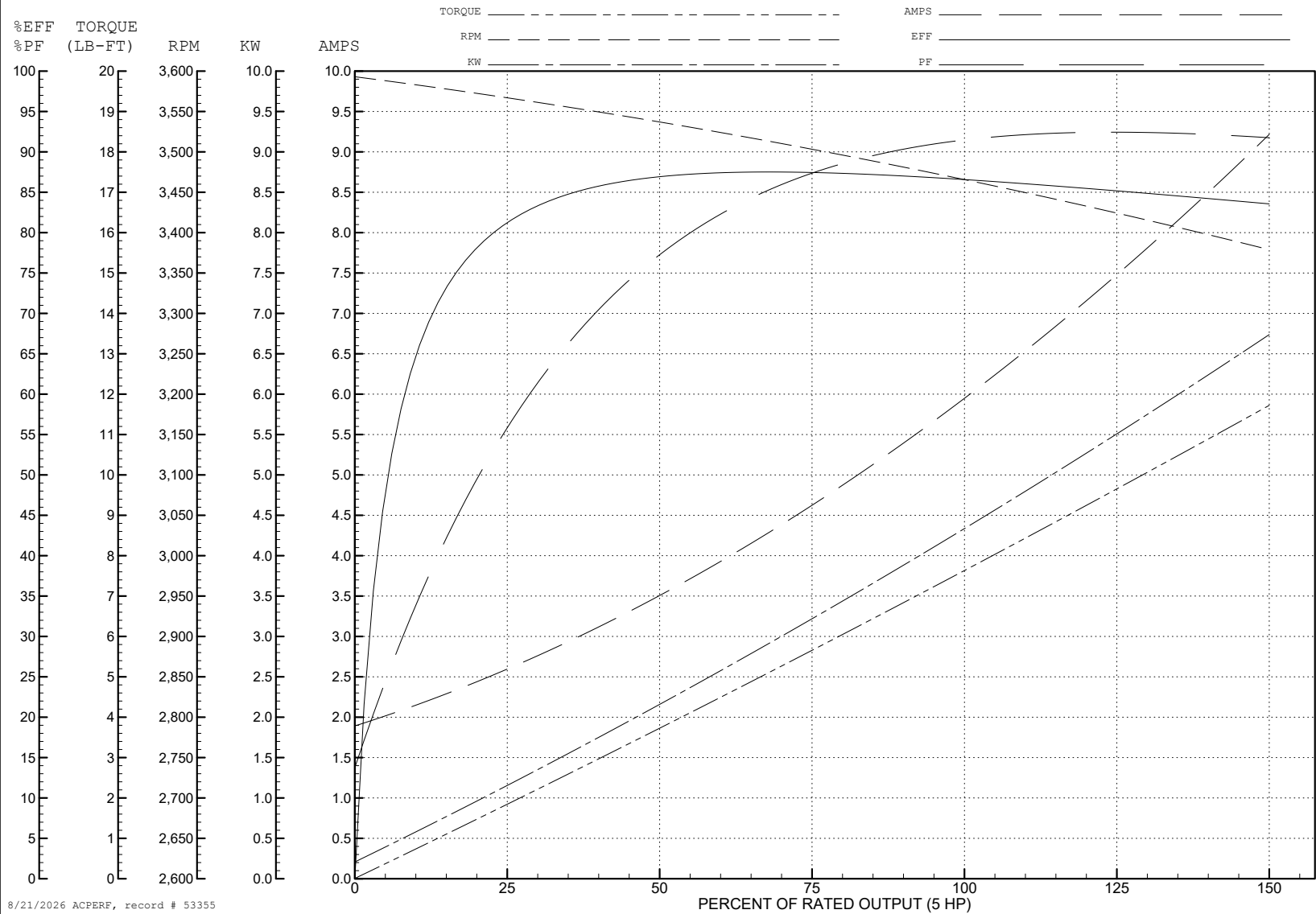
ABB Motors and Mechanical Inc.

WINDING # 36WGS040

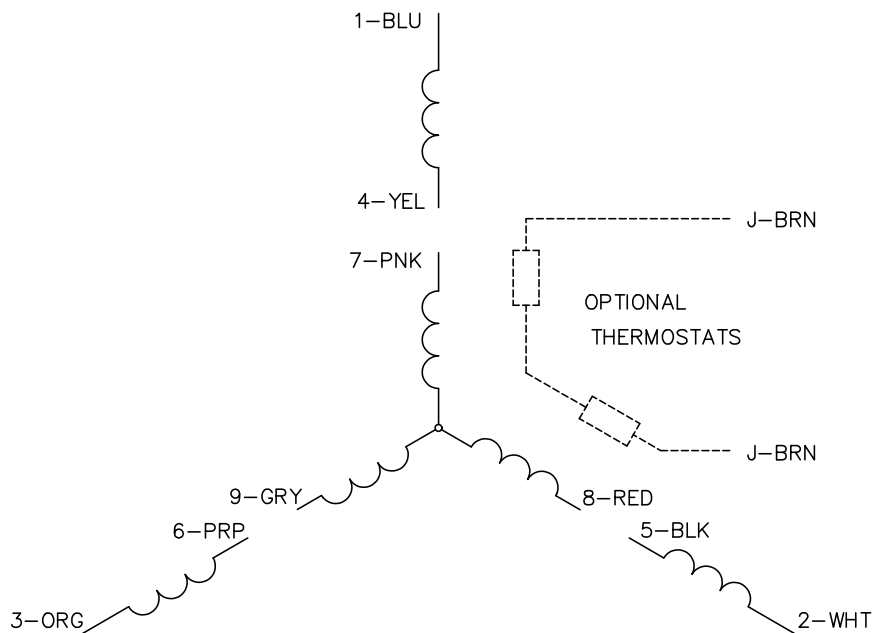
Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 460 V 3622M

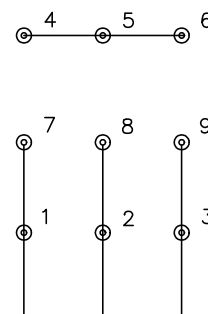
TORQUES (LB-FT) : PO=29.99 PU=17.89 LR=22.24 LRA=49.63



CD0005

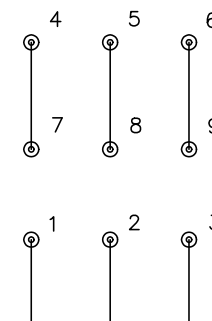


LOW VOLTAGE
(2Y)



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