

ABB BALDOR RELIANCE III

Customer information packet

EHM4110T

40HP, 1775RPM, 3PH, 60HZ, 324T, 1264M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324T
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	48.000 A @ 460.0 V 96.000 A @ 230.0 V 102.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	V
Type	AC
Mech. spec.	12G122
Base	
Status	PRD/A
Elec. spec.	12WGY225
Layout	12LYG122
Eff. date	02-17-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	12-05-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Mounting Provisions Only
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP2138L																	
CAT.NO.	EHM4110T				P/N						ENCLOSURE		TEFC				
SPEC.	12G122Y225G1			CC	010A		FRAME		324T		S/N						
HP	40				CLASS		F		HZ		60						
RPM	1775				PH		3		DES		A						
VOLT	230/460								KVA-CODE		J		ODE BRG		6311	DE BRG	6312
AMP	96/48																
RATING	40C AMB-CONT				GREASE		POLYREX EM										
NEMA-NOM-EFF	94.1	PF	82	SER.F.		1.15											
HTR-VOLTS	HTR-AMPS																

AC Induction Motor Performance Data

Record # 53033

Typical performance - not guaranteed values

Winding: 12WGY225-R002			Type: 1264M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40	Full Load Torque		118 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		96/48	Breakdown Torque		413 LB-FT		
R.P.M.		1775	Pull-up Torque		192 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		205 LB-FT	
NEMA Design Code		A	KVA Code		J		
Service Factor (S.F.)		1.15	No-load Current		20.3 A		
NEMA Nom. Eff.		94.1	Power Factor		82		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		49°C
S.F. Amps					Temp. Rise @ S.F. Load		58°C
					Locked-rotor Power Factor		26
					Rotor inertia		8.53 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	66	76	82	83	85	83
Efficiency	89.8	93.7	94.6	94.8	94.3	94.2	94.5
Speed	1796	1791	1787	1783	1778	1772	1780
Line amperes	23.6	30.7	39.2	48.5	59.2	69.8	54.9

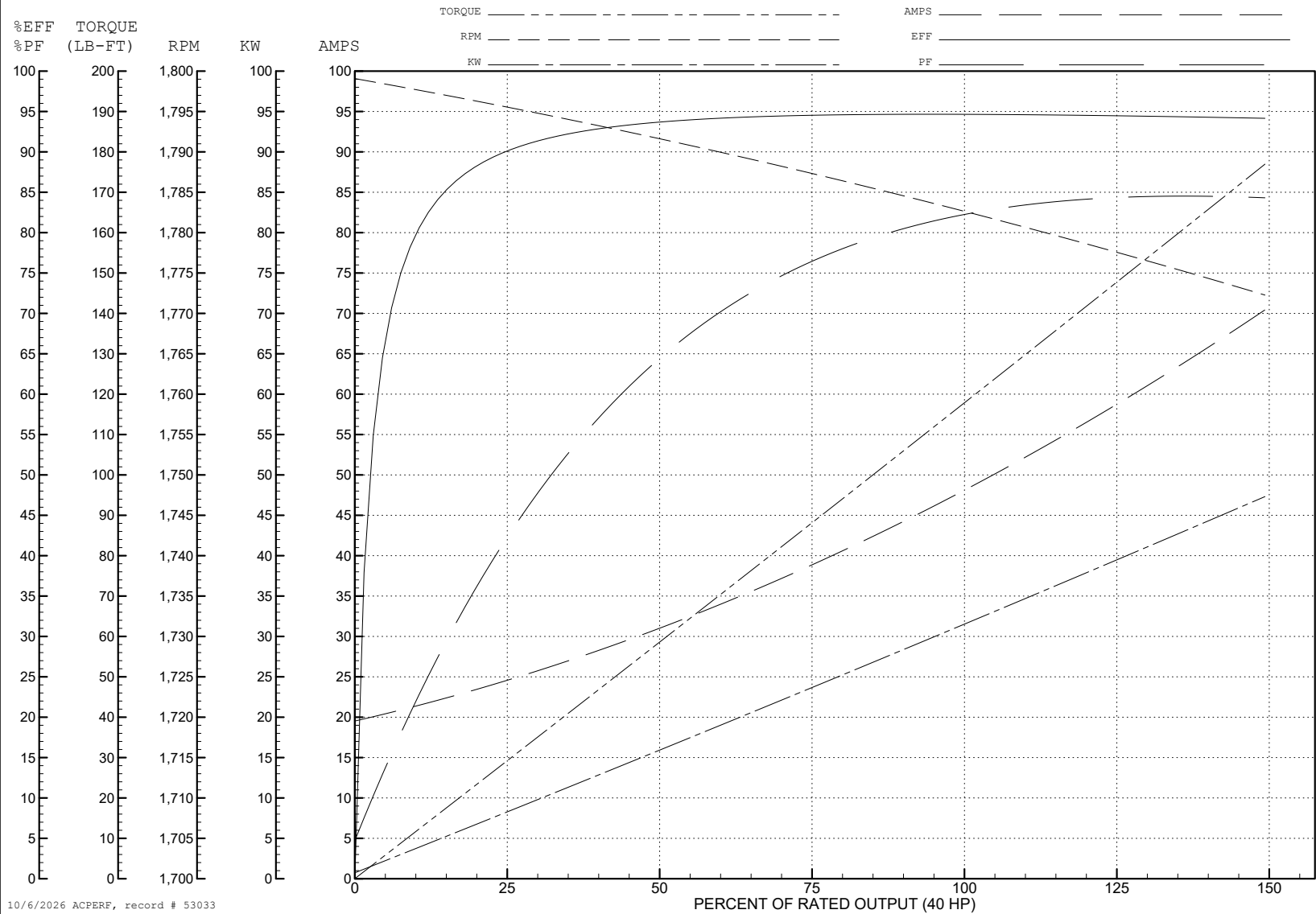
ABB Motors and Mechanical Inc.

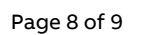
WINDING # 12WGY225

Typical performance - not guaranteed values.

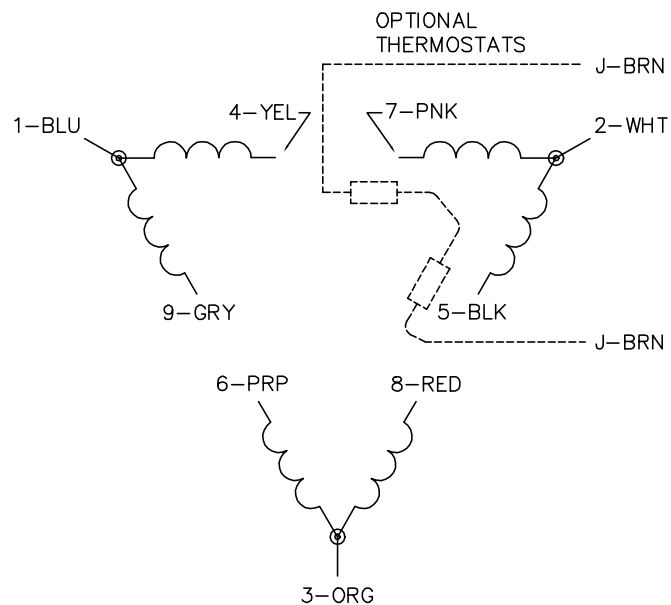
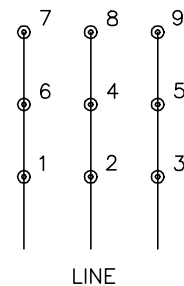
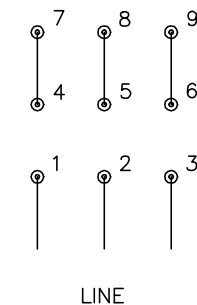
40 HP 3 PH 60 HZ 1775 RPM 460 V 1264M

TORQUES (LB-FT): PO=413 PU=192 LR=205 LRA=370





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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