

ABB BALDOR RELIANCE III

Customer information packet

EWDM4115T

50HP, 1770RPM, 3PH, 60HZ, 326T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	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	57.000 A @ 460.0 V 114.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	57.0 a

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY627
Layout	12LYP064
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	08-21-2019

Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	87
Product Family	Washdown Features
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	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

NP1669L									
CAT.NO.	EWDM4115T								
SPEC.	12-0000-0985								
HP	50								
VOLTS	230/460 20:1 CT/VT								
AMP	114/57								
RPM	1770								
FRAME	326T		HZ	60			PH	3	
SER.F.	1.00	CODE	G	DES	B	CLASS	F		
NEMA-NOM-EFF	94.5	PF	87						
RATING	40C AMB-CONT								
CC	010A								
DE	6312		ODE	6311					
ENCL	TEFC	SN							
BLANK	1.15SF ON SINEWAVE								

AC Induction Motor Performance Data

Record # 56626

Typical performance - not guaranteed values

Winding: 12WGY627-R003			Type: 1272M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		50	Full Load Torque		148 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		114/57	Breakdown Torque		446 LB-FT			
R.P.M.		1770	Pull-up Torque		183 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		254 LB-FT		
NEMA Design Code		B	KVA Code	G	Starting Current		344 A	
Service Factor (S.F.)		1	No-load Current		18.3 A			
NEMA Nom. Eff.		94.5	Power Factor		87	Line-line Res. @ 25°C		0.119 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		61°C	
					Locked-rotor Power Factor		24.4	
					Rotor inertia		9.59 lb-ft²	

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	58	78	85	87	87	87
Efficiency	92.1	94.7	94.9	94.5	93.9	92.9
Speed	1791	1785	1779	1772	1765	1756
Line amperes	22.3	31.9	43.5	56.9	71.3	87.1

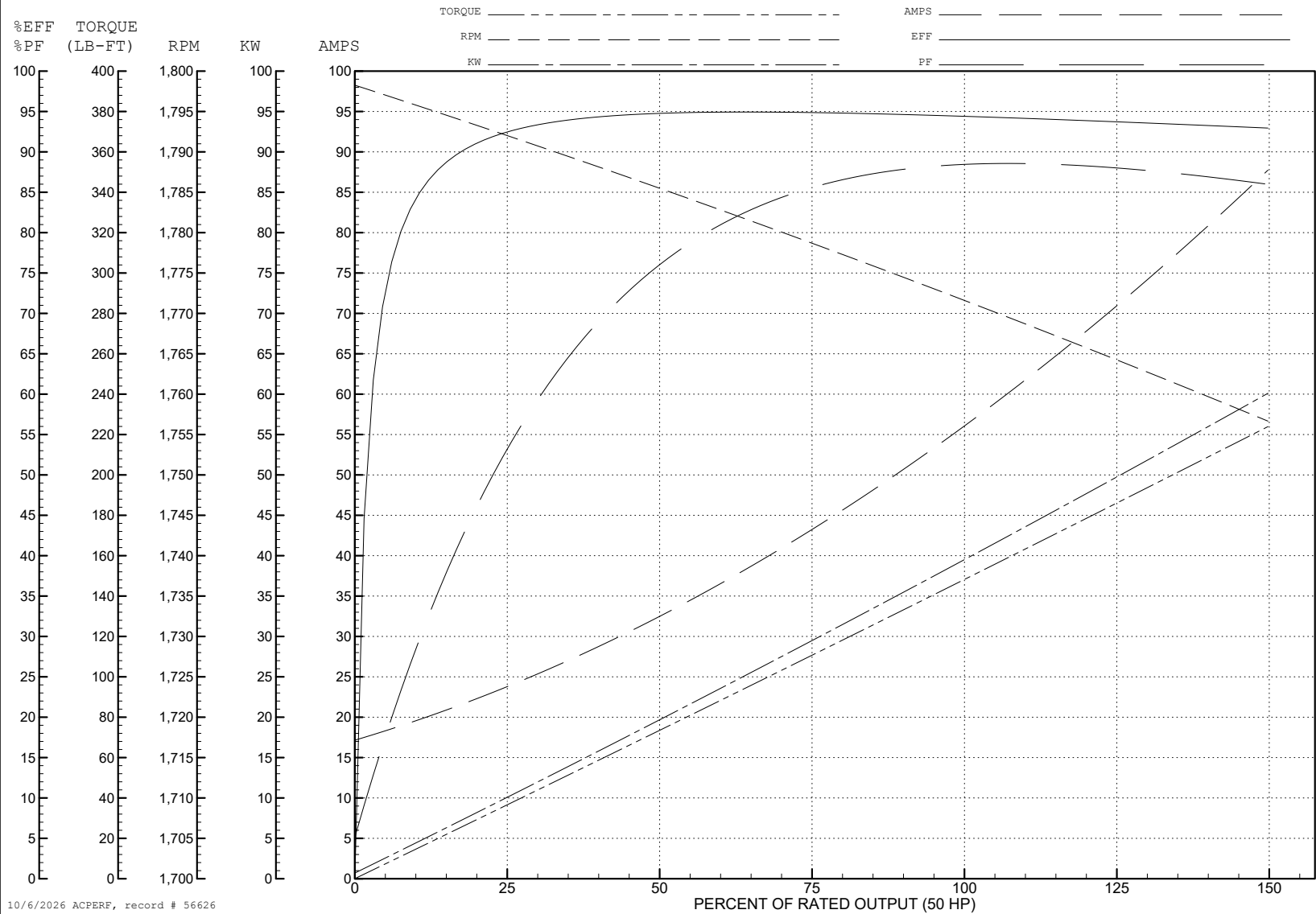
ABB Motors and Mechanical Inc.

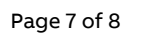
WINDING # 12WGY627

Typical performance - not guaranteed values.

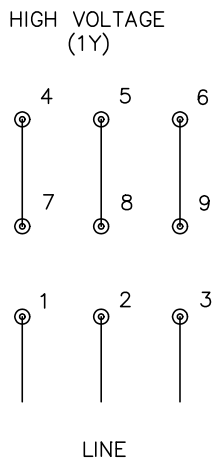
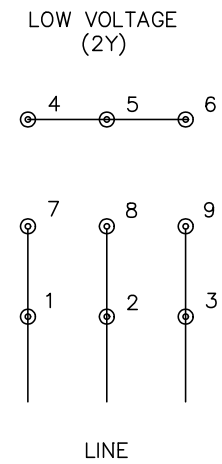
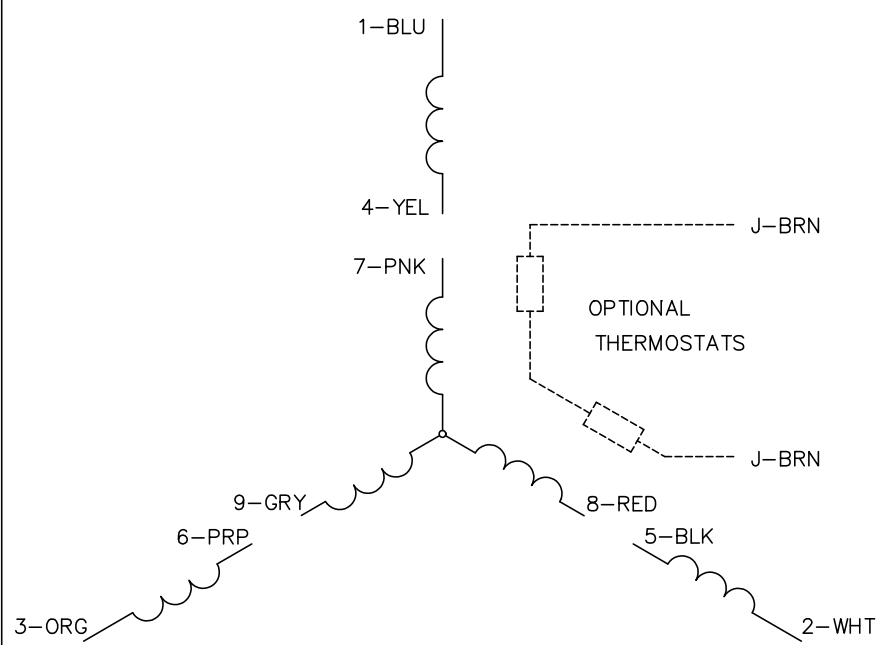
50 HP 3 PH 60 HZ 1770 RPM 460 V 1272M

TORQUES (LB-FT): PO=446 PU=183 LR=254 LRA=344





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