

ABB BALDOR RELIANCE III

Customer information packet

CECP4115T

50HP, 1775RPM, 3PH, 60HZ, 324TC, 1272M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	324TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	50.000 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	CCSA US CSA EEV NEMA PREMIUM 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
Constant Torque Speed Range	0.8
Current @ Voltage	58.000 A @ 460.0 V 116.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	F
Type	AC
Mech. spec.	12G214
Base	
Status	PRD/A
Elec. spec.	12WGZ279
Layout	12LYG214
Eff. date	11-03-2025
CD Diagram	CD0180
Poles	04
Leads	9#8 Y
Proprietary	False
Created date	02-03-2021

Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	58.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 6 AWG
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	85
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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

NP3241																	
CAT.NO.	CECP4115T				P/N				ENCLOSURE				TEFC				
SPEC.	12G214Z279G1			CC	010A	FRAME		326TC		S/N							
HP	50				CLASS		F	HZ		60	DES	A					
RPM	1775				RPM MAX		2700		PH		3	KVA-CODE		H			
VOLT	230/460				MOTOR WEIGHT				656								
AMP	116/58				SER.F.		1.15		PF		85	ODE BRG		6312	DE BRG 6312		
RATING	40C AMB-CONT				NEMA-NOM-EFF				94.5		GREASE		POLYREX EM				
									INV.TYPE		PWM						
TEMP CODE	T3	INVERTER-TEMP-CODE				200											
TEMP =	200	C HP FR	60		C HP TO		90										
CT HZ FROM	0.8		CT HZ TO		60												
HTR-VOLTS		HTR-AMPS			HTR-WATTS			MAX. SPACE HEATER TEMP.					VT HZ FROM		O	VT HZ TO	60

AC Induction Motor Performance Data

Record # 86839

Preliminary Data Sheet

Winding: 12WGZ279-R006			Type: 1272M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		50	Full Load Torque		147.8 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		116/58	Breakdown Torque		475 LB-FT		
R.P.M.		1775	Pull-up Torque		210 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		240 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		413 A
Service Factor (S.F.)		1.15	No-load Current		20.8 A		
NEMA Nom. Eff.		94.5	Power Factor	85	Line-line Res. @ 25°C		0.114 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		68°C
S.F. Amps		132/68	Temp. Rise @ S.F. Load		88°C		
			Locked-rotor Power Factor		29.7		
			Rotor inertia		9.59 lb-ft²		

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	73	82	86	87	87	87
Efficiency	91.5	94.4	94.8	94.6	94	93.2	94.1
Speed	1794	1788	1782	1776	1769	1761	1770
Line amperes	24.8	33.9	45.3	57.9	71.6	87.5	66.1

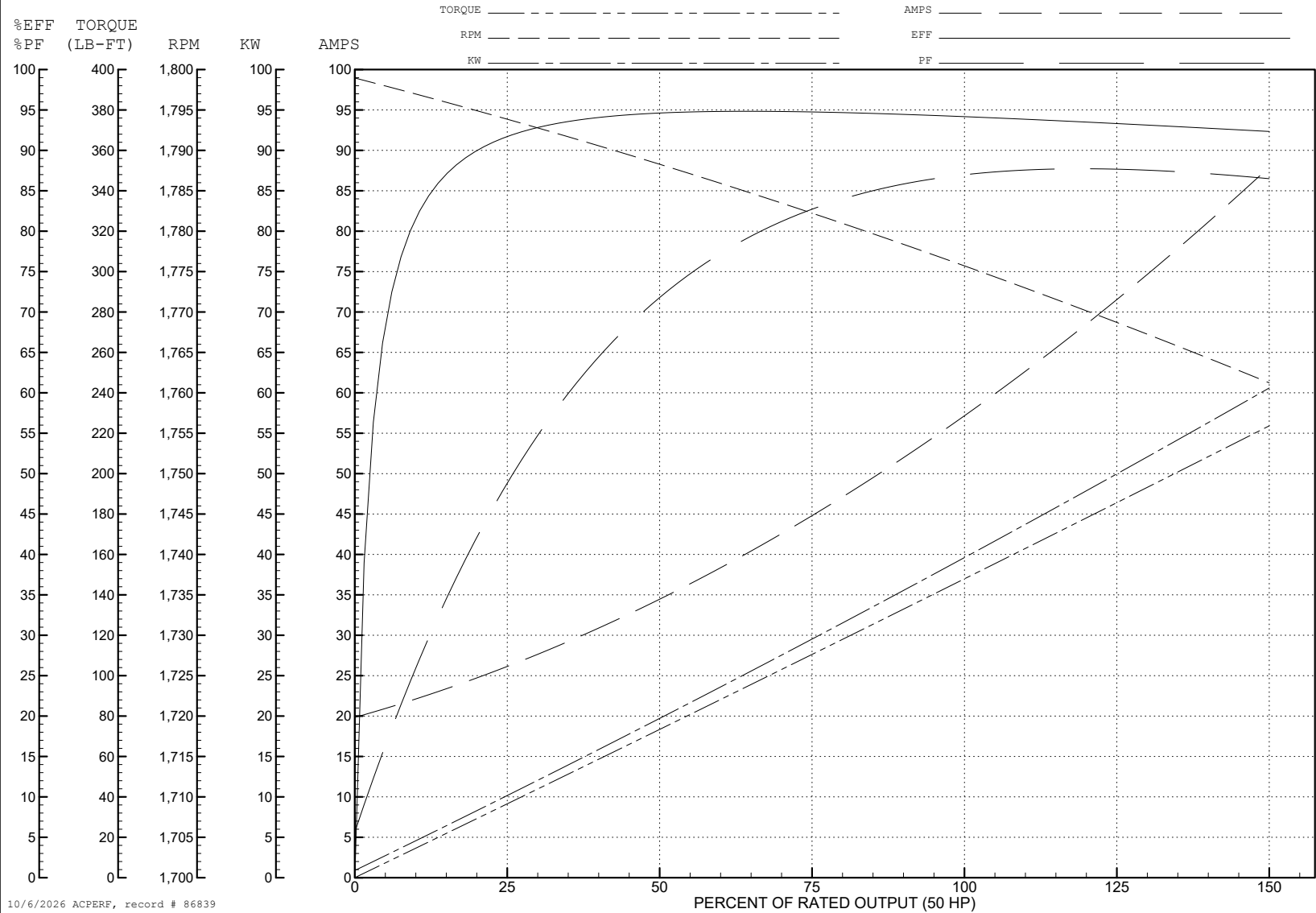
ABB Motors and Mechanical Inc.

WINDING # 12WGZ279

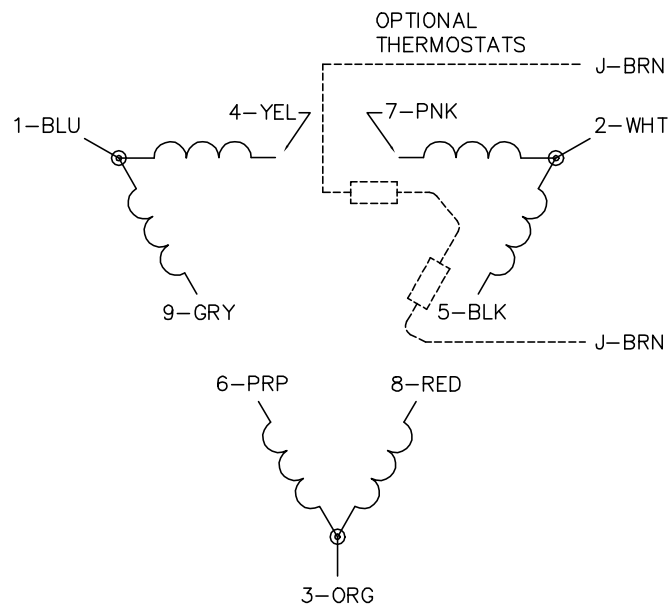
Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

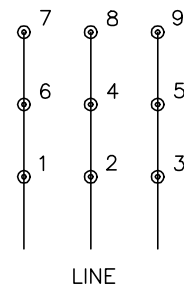
TORQUES (LB-FT): PO=475 PU=210 LR=240 LRA=413



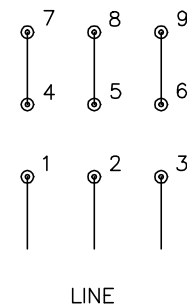
CD0180



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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