ABB BALDOR RELIANCE

Customer information packet

ECP4115T

50HP, 1775RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	326T
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	J
Type	AC
Mech. spec.	12F904
Base	
Status	PRD/A
Elec. spec.	12WGZ279
Layout	12LYF904
Eff. date	10-16-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
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	Standard
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.	ECP4115T	**P/N**				**ENCLOSURE**	TEFC						
SPEC.	12F904Z279G1	**CC**	010A	**FRAME**	326T		**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**	641										
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			
Rated Output (HP)			50
Volts			230/460
Full Load Amps			116/58
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.5	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			132/68

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	147.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	475 LB-FT
Pull-up Torque	210 LB-FT
Locked-rotor Torque	240 LB-FT
Starting Current	413 A
No-load Current	20.8 A
Line-line Res. @ 25ºC	0.114 Ω
Temp. Rise @ Rated Load	68°C
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

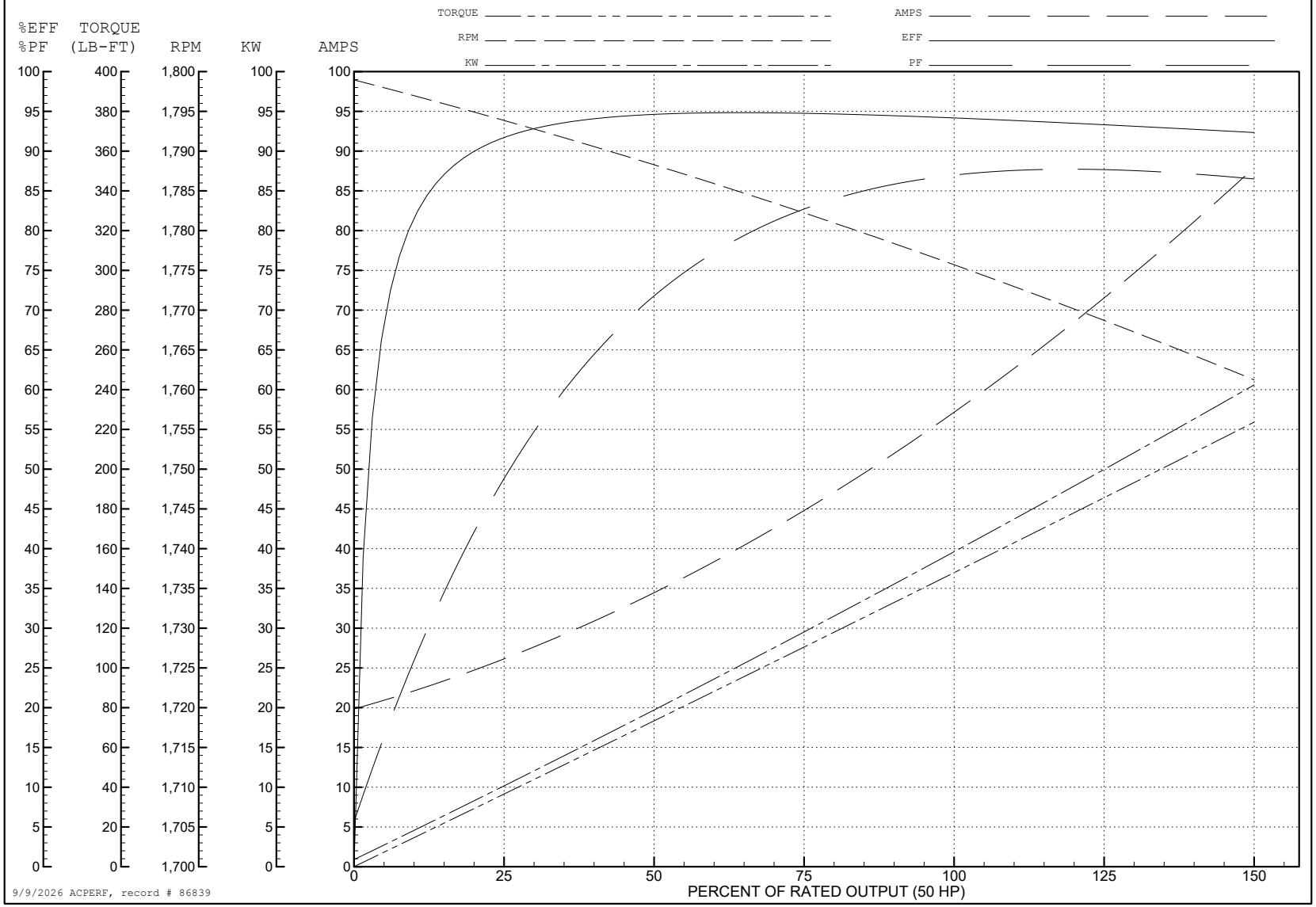
ABB Motors and Mechanical Inc.

WINDING # 12WGZ279

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

Typical performance - not guaranteed values.

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



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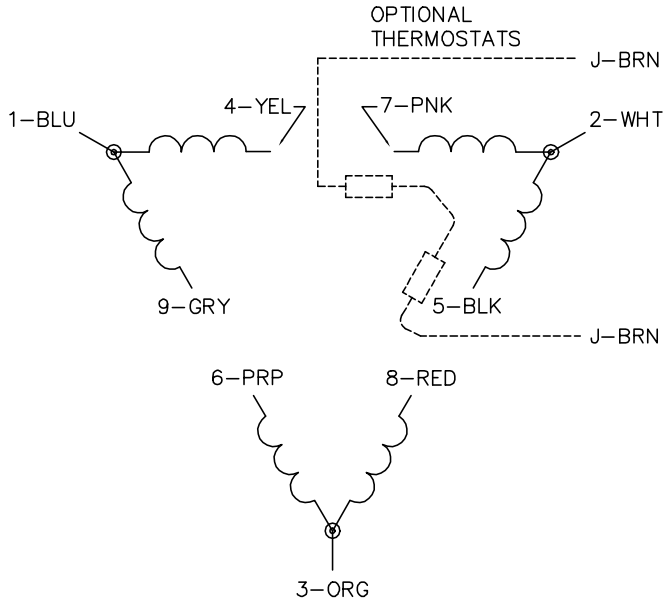

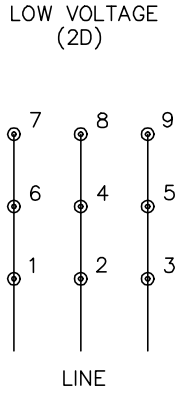

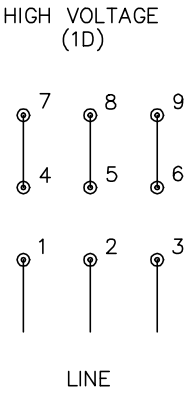

NOTES:

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.

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BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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