

ABB BALDOR RELIANCE III

Customer information packet

CECP4117T

30HP, 1180RPM, 3PH, 60HZ, 326TC, 1264M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	326TC
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	1
Current @ Voltage	82.000 A @ 208.0 V 78.000 A @ 230.0 V 39.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	Q
Type	AC
Mech. spec.	12G214
Base	
Status	PRD/A
Elec. spec.	12WGY812
Layout	12LYG214
Eff. date	11-03-2025
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	09-17-2014

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
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	6
Overall Length	30.28 IN
Power Factor	78
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 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.	CECP4117T				P/N				ENCLOSURE				TEFC						
SPEC.	12G214Y812G1			CC	010A	FRAME		326TC		S/N									
HP	30				CLASS		F	HZ	60	DES	A								
RPM	1180				RPM MAX		1800		PH	3	KVA-CODE		H						
VOLT	230/460				MOTOR WEIGHT				540										
AMP	78/39				SER.F.		1.15	PF	78	ODE BRG		6312	DE BRG		6312				
RATING	40C AMB-CONT				NEMA-NOM-EFF				93		GREASE		POLYREX EM						
	SFA 88/44																		
									INV.TYPE		PWM								
TEMP CODE	T3	INVERTER-TEMP-CODE				200													
TEMP =	200	C HP FR	60		C HP TO		90												
CT HZ FROM	1		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 # 47164

Typical performance - not guaranteed values

Winding: 12WGY812-R001			Type: 1264M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		30	Full Load Torque		133 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		78/39	Breakdown Torque		370 LB-FT	
R.P.M.		1180	Pull-up Torque		179 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		217 LB-FT	
NEMA Design Code		A	KVA Code		H	
Service Factor (S.F.)		1.15	Starting Current		245 A	
NEMA Nom. Eff.		93	Power Factor		78	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		0.22799 Ω	
S.F. Amps			Temp. Rise @ Rated Load		56°C	
			Temp. Rise @ S.F. Load		68°C	
			Locked-rotor Power Factor		27.2	
			Rotor inertia		12.2 lb-ft²	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	63	73	78	80	80	79
Efficiency	89	92.7	93.4	93.1	92.4	91.4	92.7
Speed	1196.5	1191.9	1188.3	1183.2	1178.2	1171.8	1180
Line amperes	19.2	24.1	31	38.7	47.5	57.3	44

ABB Motors and Mechanical Inc.

WINDING # 12WGY812

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1180 RPM 460 V 1264M

TORQUES (LB-FT): PO=370 PU=179 LR=217 LRA=245





