

ABB BALDOR RELIANCE III

Customer information packet

VLECP2333T

15HP, 1765RPM, 3PH, 60HZ, 254LP, 0944M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	254LP
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	15.000 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 NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.2
Current @ Voltage	38.000 A @ 208.0 V 36.200 A @ 230.0 V 18.100 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	G
Type	AC
Mech. spec.	09T01
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYT001
Eff. date	02-01-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.08 IN
Power Factor	84
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Thrust
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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.	VLECP2333T			P/N					ENCLOSURE	TEFC			
SPEC.	09T01T597G1		CC	010A	FRAME	254LP		S/N					
HP	15			CLASS	F	HZ	60	DES	A				
RPM	1765			RPM MAX	2700		PH	3	KVA-CODE	H			
VOLT	230/460			MOTOR WEIGHT			320						
AMP	36.2/18.1			SER.F.	1.15		PF	84	ODE BRG	6208	DE BRG	QJ213	
RATING	40C AMB-CONT			NEMA-NOM-EFF			92.4		GREASE	POLYREX EM			
							INV.TYPE		PWM				
TEMP CODE	T3C	INVERTER-TEMP-CODE			180								
TEMP =	160	C HP FR	60	C HP TO	90								
CT HZ FROM	1.2		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 # 86511

Preliminary Data Sheet

Winding: 09WGT597-R006			Type: 0944M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15	Full Load Torque		44.5 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		36.2/18.1	Breakdown Torque		154 LB-FT	
R.P.M.		1765	Pull-up Torque		67.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	83.5 LB-FT	
NEMA Design Code	A	KVA Code	H	Starting Current	129 A	
Service Factor (S.F.)		1.15	No-load Current		7.32 A	
NEMA Nom. Eff.	92.4	Power Factor	84	Line-line Res. @ 25°C	0.61 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		52°C	
S.F. Amps		41.0/20.5	Temp. Rise @ S.F. Load		67°C	
			Locked-rotor Power Factor		38.1	
			Rotor inertia		1.92 lb-ft²	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	69	79	84	86	87	86
Efficiency	88	92.1	92.7	92.5	91.7	90.7	91.9
Speed	1792	1785	1777	1768	1759	1749	1761
Line amperes	8.45	11	14.3	18.1	22.2	26.7	20.5

ABB Motors and Mechanical Inc.

WINDING # 09WGT597

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=154 PU=67.2 LR=83.5 LRA=129





