

ABB BALDOR RELIANCE III

Customer information packet

VECP2333T

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

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I 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	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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
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	H
Type	AC
Mech. spec.	09H181
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYH181
Eff. date	04-30-2026
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 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 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.41 IN
Power Factor	84
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	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

NP3995ABAL															
CAT #		VECP2333T				SER				CC		010A			
SPEC		09H181T597				RATING		40C AMB-CONT							
HZ		VOLTS		AMPS		RPM		HP	CODE	SF	DES	PF	NEMA NOM. EFF		
60		230/460		36.2/18.1		1765		15	H	1.15	A	84	%	92.4	%
													%		%
PH	3	CL	F	MAX RPM		2700	MAX CORR KVAR		3.8	USABLE AT 208V			N/A		
IP55		FR	254TC		ENCL	TEFC	DE BRG		6309	ODE BRG		6309			
GREASE		POLYREX EM								MTR WT		314	LBS		
USABLE AT			50HZ 10HP 190/380V 30.4/15.2A							SF1.0					
CL I DIV 2 GRPS A,B,C,D						CL I ZONE 2 GRPS			IIA,IIB,IIC			TEMP T	160	C	
1.0 SF ON PWM INVERTER				POWER		INV TEMP CL		180	C						
CHP	60-90		HZ	1.5:1	CT	1.2-60		HZ	50:1	VT	0-60	HZ	1000:1		
SPACE HEATER LEADS H1-H2:						TIE LIKE NUMBERS			TOGETHER						
V			A			W			MAX SPACE HEATER TEMP						

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





