

ABB BALDOR RELIANCE III

Customer information packet

ECTM2333T

15 AIR OVERHP, 1765RPM, 3PH, 60HZ, 254T, 0944

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UR CSA
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
Current @ Voltage	18.100 A @ 460.0 V 36.200 A @ 230.0 V 38.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	09L877
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYL877
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	23.09 IN
Power Factor	84
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
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

NP2178										
CAT.NO.	ECTM2333T									
SPEC.	09L877T597G1									
HP	15 AIR OVER									
VOLTS	230/460									
AMP	36.2/18.1									
RPM	1765									
FRAME	254T	HZ		60	PH		3			
SER.F.	1.15	CODE	H	DES	A	CL	F			
NEMA-NOM-EFF	92.4	PF	84							
RATING	40C AMB-CONT									
CC										
DE	6309	ODE		6208						
ENCL	TEAO	SN								
	1800 FPM @ 250CFM									

AC Induction Motor Performance Data

Record # 86508

Preliminary Data Sheet

Winding: 09WGT597-R004			Type: 0944M		Enclosure: TEAO		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15 AIR OVER		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





