

ABB BALDOR RELIANCE III

Customer information packet

FDEM2333T

15HP, 1765RPM, 3PH, 60HZ, 254T, 0944M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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 CSA EEV 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
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	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

Part Detail

Revision	G
Type	AC
Mech. spec.	09K989
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYK989
Eff. date	11-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard 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	23.66 IN
Power Factor	84
Product Family	General Purpose
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

NP3126L									
CAT.NO.	FDEM2333T								
SPEC.	09K989T597G1								
HP	15								
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	010A								
DE	6309		ODE	6208					
ENCL	TEFC	SN							
	SFA 41/20.4								

AC Induction Motor Performance Data

Record # 93306

Typical performance - not guaranteed values

Winding: 09WGT597-R001			Type: 0944M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15		Full Load Torque		44.59 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		36.2/18.1		Breakdown Torque		151 LB-FT	
R.P.M.		1765		Pull-up Torque		76.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		84.9 LB-FT	
NEMA Design Code		A	KVA Code	H		Starting Current	131 A
Service Factor (S.F.)		1.15		No-load Current		7.72 A	
NEMA Nom. Eff.		92.4	Power Factor	84		Line-line Res. @ 25°C	0.61892 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps		41/20.4		Temp. Rise @ S.F. Load		61°C	
				Locked-rotor Power Factor		33.3	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	78	83	85	86	84
Efficiency	87.5	91.8	92.6	92.4	91.8	90.8	92
Speed	1791.8	1784.7	1777	1768.8	1759.2	1749.3	1763
Line amperes	8.82	11.3	14.6	18.3	22.4	26.9	20.8

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=151 PU=76.5 LR=84.9 LRA=131





