

ABB BALDOR RELIANCE III

Customer information packet

VEM2333T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254TC
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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	36.200 A @ 230.0 V 38.000 A @ 208.0 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
Heater Indicator	No Heater

Part Detail

Revision	M
Type	AC
Mech. spec.	09C103
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYC103
Eff. date	05-14-2024
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
IP Rating	NONE
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	23.86 IN
Power Factor	84
Product Family	General Purpose
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

NP3441LUA									
CAT.NO.	VEM2333T								
SPEC	09C103T597G3								
HP	15								
VOLTS	230/460								
AMPS	36.2/18.1								
RPM	1765								
FRAME	254TC		HZ	60			PH	3	
SF	1.15		CODE	H	DES	A	CLASS	F	
NEMA NOM. EFF	92.4		PF	84					
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC		SER						
DE	6309		ODE	6208					
VPWM INVERTER READY		SFA 41/20.4							
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 15HP 190/380V 42.2/21.1A								SF1.0

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	
Service Factor (S.F.)		1.15	Starting Current		131 A	
NEMA Nom. Eff.		92.4	Power Factor		84	
Rating - Duty		40C	AMB-CONT			
S.F. Amps		41/20.4	Temp. Rise @ Rated Load		50°C	
			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





