

ABB BALDOR RELIANCE III

Customer information packet

VEM4107T

44M 2P TEFC VER 284TSC SE

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284TSC
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
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	29.000 A @ 460.0 V 58.000 A @ 230.0 V 62.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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.	09F909
Base	
Status	PRD/A
Elec. spec.	09WGT577
Layout	09LYF909
Eff. date	06-27-2024
CD Diagram	CD0005
Poles	02
Leads	9#10
Proprietary	False
Created date	09-29-2018

High Voltage Full Load Amps	29.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.45 IN
Power Factor	88
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	3520 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

NP3443LUA												
CAT.NO.	VEM4107T				CUST. P/N				ENCL			TEFC
SPEC.	09F909T577G1	CC	010A	FRAME	284TSC	SER.NO.						
HP	25		CLASS	F	HZ	60						
R.P.M.	3520		PH.	3	DES.	A						
VOLTS	230/460			CODE	J	ODE BRG	6208	DE BRG	6311			
AMPS	58/29											
RATING	40C AMB-CONT		NEMA NOM. EFF.			91.7	GREASE		POLYREX EM			
P.F.	88	SER.F.	1.15	CT6-60H(10:1)VT3-60H(20:1								
USABLE AT	50Hz 20HP 190/380V 56/28A			1.0SF								
VOLTS	AMPS	MAX. SPACE HEATER TEMP.										

AC Induction Motor Performance Data

Record # 72672

Typical performance - not guaranteed values

Winding: 09WGT577-R001				Type: 0944M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		37.39 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		58/29		Breakdown Torque		153 LB-FT	
R.P.M.		3520		Pull-up Torque		58.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		75 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		223 A	
Service Factor (S.F.)		1.15		No-load Current		10.1 A	
NEMA Nom. Eff.		91.7	Power Factor	88		Line-line Res. @ 25°C	
						0.3381 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		74°C	
S.F. Amps				Temp. Rise @ S.F. Load		91°C	
				Locked-rotor Power Factor		29.7	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	84	88	89	90	89
Efficiency	87.6	91.6	92.2	91.8	90.9	89.8	91.3
Speed	3580.5	3562.7	3544.2	3524	3501.4	3477.9	3510
Line amperes	12.3	16.9	22.7	29.1	36.1	43.5	33.3

ABB Motors and Mechanical Inc.

WINDING # 09WGT577

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3520 RPM 460 V 0944M

TORQUES (LB-FT): PO=153 PU=58.5 LR=75 LRA=223





