

ABB BALDOR RELIANCE III

Customer information packet

EM2334T-58

20HP, 1465RPM, 3PH, 50HZ, 256T, 0956M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256T
Frame Material	Iron
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	400.0 V @ 50 HZ
Agency Approvals	CE CSA CURUS IE3 UKCA UR WEEE
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	28.000 A @ 400.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	Y
Type	AC
Mech. spec.	09F103
Base	
Status	PRD/A
Elec. spec.	09WGZ534
Layout	09LYF103
Eff. date	08-05-2025
CD Diagram	CD0382
Poles	04
Leads	6#12
Proprietary	False
Created date	12-05-2014

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0956M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.55 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1465 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3444L									
CAT NO	EM2334T-58								
SPEC.	09F103Z534G1								
HP	20/15KW						PH	3	
VOLTS	400								
AMP	28								
RPM	1465 1/MIN IC411 138KG								
FRAME	256T		HZ		50		I.P.		54
SER.F.	1.15	CODE		H	DES		A	CL	F
NOM.EFF.	92.1								
PF	84	USABLE AT 208V					N/A		
RATING	40C AMB-S1 CONT				CC				
DE BRG	6309		ODE		6208				
ENCL	TEFC	SN							
VPWM INVERTER READY									
CT5-50(10:1)VT2.5-50(20:1									
BLANK	IE3-92.3(75%)91.5(50%)								

AC Induction Motor Performance Data

Record # 48443

Typical performance - not guaranteed values

Winding: 09WGZ534-R009				Type: 0956M		Enclosure: TEFC	
Nameplate Data				400 V, 50 Hz: Single Voltage Motor			
Rated Output (HP)		20		Full Load Torque		71.9 LB-FT	
Volts		400		Start Configuration		direct on line	
Full Load Amps		28		Breakdown Torque		369 LB-FT	
R.P.M.		1465		Pull-up Torque		111 LB-FT	
Hz	50	Phase	3	Locked-rotor Torque		168 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		203 A
Service Factor (S.F.)		1.15		No-load Current		12.8 A	
NEMA Nom. Eff.		92.1	Power Factor	84	Line-line Res. @ 25°C		0.324 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		78°C	
S.F. Amps				Temp. Rise @ S.F. Load		96°C	
				Locked-rotor Power Factor		36.6	
				Rotor inertia		2.44 LB-FT2	

Load Characteristics 400 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	66	77	84	86	87	85
Efficiency	87.2	91.5	92.3	92.2	91.3	89.8	91.7
Speed	1493	1485	1476	1468	1458	1445	1462
Line amperes	14.2	17.8	22.9	28.1	34.4	42.7	31.9

ABB Motors and Mechanical Inc.

WINDING # 09WGZ534

Typical performance - not guaranteed values.

20 HP 3 PH 50 HZ 1465 RPM 400 V 0956M

TORQUES (LB-FT): PO=369 PU=111 LR=168 LRA=203





