

ABB BALDOR RELIANCE III

Customer information packet

EHM4103T

25HP, 1780RPM, 3PH, 60HZ, 284T, 1056M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284T
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	60.000 A @ 230.0 V 64.000 A @ 208.0 V 30.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	X
Type	AC
Mech. spec.	10H756
Base	
Status	PRD/A
Elec. spec.	10WGX562
Layout	10LYH756
Eff. date	07-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	12-12-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Mounting Provisions Only
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP2138L															
CAT.NO.	EHM4103T				P/N					ENCLOSURE		TEFC			
SPEC.	10H756X562G1			CC	010A	FRAME		284T		S/N					
HP	25				CLASS		F	HZ		60					
RPM	1780				PH	3	DES		B						
VOLT	230/460								KVA-CODE		G	ODE BRG	6309	DE BRG	6311
AMP	60/30														
RATING	40C AMB-CONT				GREASE		POLYREX EM								
NEMA-NOM-EFF	93.6	PF	82	SER.F.		1.15									
HTR-VOLTS	HTR-AMPS														

AC Induction Motor Performance Data

Record # 2743

Typical performance - not guaranteed values

Winding: 10WGX562-R001			Type: 1056M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25	Full Load Torque		74 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		60/30	Breakdown Torque		226 LB-FT	
R.P.M.		1780	Pull-up Torque		101 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		137 LB-FT
NEMA Design Code		B	KVA Code	G	Starting Current	
Service Factor (S.F.)		1.15	No-load Current		11 A	
NEMA Nom. Eff.		93.6	Power Factor	82	Line-line Res. @ 25°C	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps				Temp. Rise @ S.F. Load		62°C
				Locked-rotor Power Factor		32
				Rotor inertia		4.44 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	68	78	83	84	84	84
Efficiency	90.2	93.4	93.9	93.6	92.9	92	93.2
Speed	1793	1787	1781	1774	1766	1758	1769
Line amperes	14.6	18.7	24.2	30	37.3	44.8	34.38

ABB Motors and Mechanical Inc.

WINDING # 10WGX562

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1780 RPM 460 V 1056M

TORQUES (LB-FT): PO=226 PU=101 LR=137 LRA=188





