

ABB BALDOR RELIANCE III

Customer information packet

EM4103T-58

25HP, 1475RPM, 3PH, 50HZ, 284T, 1056M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284T
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	25.000 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	37.000 A @ 400.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	T
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGZ391
Layout	10LYC151
Eff. date	01-07-2026
CD Diagram	CD0382
Poles	04
Leads	6#8
Proprietary	False
Created date	03-31-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	37.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 8 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	79
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1475 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	EM4103T-58								
SPEC.	10C151Z391G1								
HP	25/18.6KW						PH	3	
VOLTS	400 199KG								
AMP	37								
RPM	1475 1/MIN IC411								
FRAME	284T		HZ		50		I.P.		54
SER.F.	1.15	CODE		H	DES		A	CL	F
NOM.EFF.	92.6								
PF	79	USABLE AT 208V					N/A		
RATING	40C AMB-CONT				CC				
DE BRG	6311		ODE		6309				
ENCL	TEFC	SN							
VPWM INVERTER READY									
CT5-50(10:1)VT2.5-50(20:1									
BLANK	IE3-92.6(75%)91.2(50%)								

AC Induction Motor Performance Data

Record # 49906

Typical performance - not guaranteed values

Winding: 10WGZ391-R001				Type: 1056M		Enclosure: TEFC		
Nameplate Data				400 V, 50 Hz: Single Voltage Motor				
Rated Output (HP)		25		Full Load Torque		88.9 LB-FT		
Volts		400		Start Configuration		direct on line		
Full Load Amps		37		Breakdown Torque		332 LB-FT		
R.P.M.		1475		Pull-up Torque		151 LB-FT		
Hz	50	Phase	3	Locked-rotor Torque		190 LB-FT		
NEMA Design Code		A	KVA Code	H		Starting Current		255 A
Service Factor (S.F.)		1.15		No-load Current		18.1 A		
NEMA Nom. Eff.		92.6	Power Factor	79		Line-line Res. @ 25°C		0.221 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C		
S.F. Amps				Temp. Rise @ S.F. Load		77°C		
				Locked-rotor Power Factor		34.5		
				Rotor inertia		4.47 LB-FT2		

Load Characteristics 400 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	61	72	79	82	84	77
Efficiency	86.7	91.2	92.6	93	92.3	91.5	92.7
Speed	1493	1488	1483	1478	1471	1464	1475
Line amperes	19.8	24.1	30.2	36.7	44.4	53.7	43.1

ABB Motors and Mechanical Inc.

WINDING # 10WGZ391

Typical performance - not guaranteed values.

25 HP 3 PH 50 HZ 1475 RPM 400 V 1056M

TORQUES (LB-FT): PO=332 PU=151 LR=190 LRA=255





