

ABB BALDOR RELIANCE III

Customer information packet

CEM3586T

2HP, 3490RPM, 3PH, 60HZ, 143TC, 0526M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143TC
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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	5.300 A @ 208.0 V 5.000 A @ 230.0 V 2.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	S
Type	AC
Mech. spec.	05C052
Base	
Status	PRD/A
Elec. spec.	05WGX117
Layout	05LYC052
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-14-2010

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.04 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	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 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

NP1259L									
CAT.NO.	CEM3586T								
SPEC.	05C052X117E7								
HP	2								
VOLTS	208-230/460								
AMP	5.3-5/2.5								
RPM	3490								
FRAME	143TC		HZ	60			PH	3	
SER.F.	1.15	CODE	M	DES	B	CL	F		
NEMA-NOM-EFF	85.5	PF	88						
RATING	40C AMB-CONT								
CC	010A								
DE	6205		ODE	6203					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 31839

Typical performance - not guaranteed values

Winding: 05WGX117-R001		Type: 0526M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	2.98 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	5.3-5/2.5	Breakdown Torque	14.2 LB-FT
R.P.M.	3490	Pull-up Torque	6.33 LB-FT
Hz	60 Phase	Locked-rotor Torque	11.2 LB-FT
NEMA Design Code	B KVA Code	Starting Current	25.9 A
Service Factor (S.F.)	1.15	No-load Current	0.912 A
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	6.9119 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	44°C
S.F. Amps		Temp. Rise @ S.F. Load	52°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	75	84	88	90	91	89
Efficiency	74.3	83.5	85.9	86.4	85.9	84.8	86.1
Speed	3571.7	3546.5	3520.2	3492.1	3460.7	3425.5	3473
Line amperes	1.1	1.47	1.93	2.44	3	3.61	2.78

ABB Motors and Mechanical Inc.

WINDING # 05WGX117

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3490 RPM 460 V 0526M

TORQUES (LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9



