



Customer information packet

CEM31115

1HP, 3500RPM, 3PH, 60HZ, 56C, 3512M, OPSB, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 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	CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.450 A @ 460.0 V 2.900 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready

Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGP987
Layout	35LYQ392
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-09-2020

IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.07 IN
Power Factor	80
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3500 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.	CEM31115										
SPEC.	35-0000-0670										
HP	1										
VOLTS	230/460										
AMP	2.9/1.45										
RPM	3500										
FRAME	56C		HZ	60		PH	3				
SER.F.	1.15	CODE	K	DES	B	CL	F				
NEMA-NOM-EFF	78.5	PF	80								
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	OPSB	SN									

AC Induction Motor Performance Data

Record # 81829

Typical performance - not guaranteed values

Winding: 35WGP987-R009			Type: 3512M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		1.47 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2.9/1.45	Breakdown Torque		6.11 LB-FT		
R.P.M.		3500	Pull-up Torque		2.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		3.86 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		10.8 A
Service Factor (S.F.)		1.15	No-load Current		0.883 A		
NEMA Nom. Eff.		78.5	Power Factor	80	Line-line Res. @ 25°C		19.3 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		31°C
S.F. Amps					Temp. Rise @ S.F. Load		35°C
					Locked-rotor Power Factor		66
					Rotor inertia		0.0332 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	58	72	80	85	88	83
Efficiency	62.2	74.4	78.5	79.2	79.4	78.1	79.3
Speed	3575	3552	3527	3499	3464	3429	3478
Line amperes	0.931	1.04	1.22	1.44	1.72	2.03	1.61

ABB Motors and Mechanical Inc.

WINDING # 35WGP987

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3500 RPM 460 V 3512M

TORQUES (LB-FT): PO=6.11 PU=2.3 LR=3.86 LRA=10.8





