



Customer information packet

CNM3457

.33HP, 3450RPM, 3PH, 60HZ, 56C, 3410M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
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	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UR
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	1.600 A @ 208.0 V 1.400 A @ 230.0 V .700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	G
Type	AC
Mech. spec.	34K008
Base	
Status	PRD/A
Elec. spec.	34WGY170
Layout	34LYK008
Eff. date	10-25-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-18-2008

Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	P
Lifting Lugs	No 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	3410M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	10.25 IN
Power Factor	64
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	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1256L									
CAT.NO.	CNM3457								
SPEC.	34K008Y170G3								
HP	.33								
VOLTS	208-230/460								
AMP	1.6-1.4/.7								
RPM	3450								
FRAME	56C		HZ	60		PH	3		
SER.F.	1.15	CODE	P	DES	B	CLASS	B		
NEMA-NOM-EFF	72	PF	64						
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TENV	SN							

AC Induction Motor Performance Data

Record # 36362

Typical performance - not guaranteed values

Winding: 34WGY170-R006			Type: 3410M		Enclosure: TENV			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.33	Full Load Torque		0.5 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		1.6-1.4/.7	Breakdown Torque		3.4 LB-FT			
R.P.M.		3450	Pull-up Torque		2.4 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		2.6 LB-FT		
NEMA Design Code		B	KVA Code	P	Starting Current		5.8 A	
Service Factor (S.F.)		1.15	No-load Current		0.56 A			
NEMA Nom. Eff.		72	Power Factor		64	Line-line Res. @ 25°C		31.3 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps			Temp. Rise @ S.F. Load		62°C			
			Locked-rotor Power Factor		71			
			Rotor inertia		0.0093 LB-FT2			

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	43	53	64	70	78	73
Efficiency	43.6	61.9	68.2	72.8	74.4	75.8	75
Speed	3569	3544	3526	3497	3477	3444	3464
Line amperes	0.57	0.6	0.63	0.68	0.71	0.79	0.742

ABB Motors and Mechanical Inc.

WINDING # 34WGY170

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

TORQUES (LB-FT): PO=3.4 PU=2.4 LR=2.6 LRA=5.8





