



Customer information packet

CHC3413A

.25HP, 1700RPM, 1PH, 60HZ, 48Z, 3414C, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	48Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	.250 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.400 A @ 230.0 V 4.800 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	54.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.4 a

Part detail

Revision	AG
Type	AC
Mech. spec.	34K052
Base	
Status	PRD/A
Elec. spec.	34WG5632
Layout	34LYK052
Eff. date	07-25-2024
CD Diagram	CD0381
Poles	04
Leads	7#18
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	62
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1700 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Nameplate

NP1280L									
CAT.NO.	CHC3413A								
SPEC.	34K52-5632								
HP	.25								
VOLTS	115/230								
AMP	4.8/2.4								
RPM	1700								
FRAME	48Z		HZ	60		PH	1		
SER.F.	1.00		CODE	H	DES	N	CL	B	
NEMA-NOM-EFF	54		PF	62					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEAO		SN						

AC Induction Motor Performance Data

Record # 50786

Typical performance - not guaranteed values

Winding: 34WG5632-R001			Type: 3414C		Enclosure: TEAO			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.25	Full Load Torque		0.75 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		4.8/2.4	Breakdown Torque		2.38 LB-FT			
R.P.M.		1700	Pull-up Torque		0.25 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		0.38 LB-FT		
NEMA Design Code		N	KVA Code	H	Starting Current		7.6 A	
Service Factor (S.F.)		1		No-load Current		2.1 A		
NEMA Nom. Eff.		54	Power Factor		62	Line-line Res. @ 25°C		8.24 Ω A Ph 34.8 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load				

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	38	48	56	61	68	73
Efficiency	23	41	49	53	57	58
Speed	1775	1754	1733	1715	1689	1658
Line amperes	2.06	2.13	2.23	2.32	2.55	2.79

ABB Motors and Mechanical Inc.

WINDING # 34WG5632

Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1700 RPM 230 V 3414C

TORQUES (LB-FT) : PO=2.38 PU=0.25 LR=0.38 LRA=7.6





