



Customer information packet

AFL3520A

.75HP, 3450RPM, 1PH, 60HZ, 56Z, 3420L, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	56Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	11.000 A @ 115.0 V 5.500 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	71.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.5 a

Part detail

Revision	AF
Type	AC
Mech. spec.	34K048
Base	
Status	PRD/A
Elec. spec.	34WG0656
Layout	34LYK048
Eff. date	07-25-2024
CD Diagram	CD0052
Poles	02
Leads	6#18,1#14 #1TH
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Lead Hole
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Cord And Plug
Motor Standards	NEMA
Motor Type	3420L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.59 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Nameplate

NP1280L									
CAT.NO.	AFL3520A								
SPEC.	34K48-656								
HP	.75								
VOLTS	115/230								
AMP	11/5.5								
RPM	3450								
FRAME	56Z		HZ	60		PH	1		
SER.F.	1.00		CODE	J	DES	N		CL	B
NEMA-NOM-EFF	71		PF	68					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEAO	SN							

AC Induction Motor Performance Data

Record # 50784

Typical performance - not guaranteed values

Winding: 34WG0656-R001			Type: 3420L		Enclosure: TEAO		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		1.2 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		11/5.5	Breakdown Torque		2.88 LB-FT		
R.P.M.		3450	Pull-up Torque		2.25 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		3.25 LB-FT	
NEMA Design Code		N	KVA Code	J	Starting Current		25 A
Service Factor (S.F.)			1	No-load Current		4.07 A	
NEMA Nom. Eff.		71	Power Factor	68	Line-line Res. @ 25°C		3.18 Ω A Ph 2.53 Ω B Ph
Rating - Duty			40C AMB-CONT		Temp. Rise @ Rated Load		

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	49	61	70	75	80
Efficiency	42	58	64	66	65	63
Speed	3557	3522	3485	3440	3399	3320
Line amperes	4.16	4.3	4.7	5.4	5.9	7

ABB Motors and Mechanical Inc.

WINDING # 34WG0656

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3420L

TORQUES (LB-FT): PO=2.88 PU=2.25 LR=3.25 LRA=25





