



Customer information packet

IR3510M

1HP, 1750RPM, 1PH, 60HZ, 56, 3528L, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
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	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	C UR US
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	6.500 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	65.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs

Part detail

Revision	-
Type	AC
Mech. spec.	35K634
Base	
Status	PRD/A
Elec. spec.	35WGK934
Layout	35LYK634
Eff. date	12-02-2024
CD Diagram	CD0045
Poles	04
Leads	8#18
Proprietary	False
Created date	11-14-2024

Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	8 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.23 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	IR3510M								
SPEC.	35K634K934								
HP	1								
VOLTS	230								
AMP	6.5								
RPM	1750								
FRAME	56		HZ	60		PH	1		
SER.F.	1.15		CODE	L	DES	L	CL	F	
NEMA-NOM-EFF	65		PF	72					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 105812

Typical performance - not guaranteed values

Winding: 35WGK934-R001			Type: 3528L	Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		1	Full Load Torque		2.983 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		6.7	Breakdown Torque		8.7 LB-FT		
R.P.M.		1750	Pull-up Torque		6.33 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		8.47 LB-FT	
NEMA Design Code		L	KVA Code	L	Starting Current		42.3 A
Service Factor (S.F.)		1.15	No-load Current		4.84 A		
NEMA Nom. Eff.		65	Power Factor	73	Line-line Res. @ 25°C		2.5909 Ω A Ph 7.3069 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		79°C	
S.F. Amps				Temp. Rise @ S.F. Load		92°C	

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	50	62	72	78	83	76
Efficiency	46	61.2	67.4	69.4	69	67.3	69.2
Speed	1786.4	1776.7	1766.1	1753.3	1738.8	1719.7	1745
Line amperes	4.93	5.23	5.75	6.49	7.47	8.7	7.08

ABB Motors and Mechanical Inc.

WINDING # 35WGK934

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1750 RPM 230 V 3528L

TORQUES (LB-FT): PO=8.7 PU=6.33 LR=8.47 LRA=42.3





