



Customer information packet

WCL1406T

3HP, 3450RPM, 1PH, 60HZ, 182TCZ, 3628L, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	182TCZ
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	3.000 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	CSA UR
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	28.000 A @ 115.0 V 14.700 A @ 208.0 V 14.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	AK
Type	AC
Mech. spec.	36E772
Base	
Status	PRD/A
Elec. spec.	36WG0115
Layout	36LYE772
Eff. date	05-09-2024
CD Diagram	CD0001
Poles	02
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	14.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.69 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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.	WCL1406T								
SPEC.	36E772-115								
HP	3								
VOLTS	115/230								
AMP	28/14								
RPM	3450								
FRAME	182TCZ		HZ	60			PH	1	
SER.F.	1.15		CODE	G	DES	L	CLASS	F	
NEMA-NOM-EFF	78		PF	88					
RATING	40C AMB-CONT								
CC									
DE	6207		ODE	6205					
ENCL	OPEN		SN						

AC Induction Motor Performance Data

Record # 61423

Typical performance - not guaranteed values

Winding: 36WG0115-R007			Type: 3628L		Enclosure: OPEN		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		3	Full Load Torque		4.6 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		28/14	Breakdown Torque		10.5 LB-FT		
R.P.M.		3450	Pull-up Torque		7.5 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		8.3 LB-FT	
NEMA Design Code		L	KVA Code	G	Starting Current		148 A
Service Factor (S.F.)		1.15		No-load Current		10.7 A	
NEMA Nom. Eff.		78	Power Factor	88	Line-line Res. @ 25°C		0.178 Ω A Ph 0.907 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C	
S.F. Amps				Temp. Rise @ S.F. Load		69°C	
				Locked-rotor Power Factor		80.5	
				Rotor inertia		0.126 LB-FT2	

Load Characteristics 115 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	81	87	90	89	88	89
Efficiency	58.1	70.7	74.6	75.2	73.9	70.9	74.4
Speed	3557	3522	3484	3439	3385	3314	3407
Line amperes	13.2	17.4	22.8	29	36.4	45.4	33.4

ABB Motors and Mechanical Inc.

WINDING # 36WG0115

Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 3450 RPM 115 V 3628L

TORQUES (LB-FT): PO=10.5 PU=7.5 LR=8.3 LRA=148





