



Customer information packet

L1405T-50

2/1.5KW, 1460RPM, 1PH, 50HZ, 182T, 3646LC, OPE

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	182T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.500 KW @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ 220.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS UKCA WEEE
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	9.200 A @ 220.0 V 18.400 A @ 110.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	G
Type	AC
Mech. spec.	36E002
Base	
Status	PRD/A
Elec. spec.	36WGQ057
Layout	36LYE002
Eff. date	05-05-2025
CD Diagram	CD0055
Poles	04
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	03-08-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	9.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.50 IN
Power Factor	90
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	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 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

NP1372L											
CAT.NO.	L1405T-50										
SPEC.	36E002Q057										
HP	2/1.5KW										
VOLTS	110/220										
AMP	18.4/9.2										
R.P.M. (1/MIN)	1460										
FRAME	182T		HZ	50		PH	1				
SER.F.	1.15	CODE	K	DES	-	CL	F				
NEMA-NOM-EFF	82.8	PF	90								
RATING	40C AMB-S1 CONT										
CC			IP22 45KG IC01								
DE	6206		ODE	6205							
ENCL	OPEN	SN									

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 101575

Typical performance - not guaranteed values

Winding: 36WGQ057-R001			Type: 3646LC		Enclosure: OPEN	
Nameplate Data				220 V, 50 Hz: High Voltage Connection		
Rated Output (KW)		1.5		Full Load Torque		7.194 LB-FT
Volts		110/220		Start Configuration		direct on line
Full Load Amps		18.4/9.2		Breakdown Torque		20.9 LB-FT
R.P.M.		1460		Pull-up Torque		11.1 LB-FT
Hz	50	Phase	1	Locked-rotor Torque		24.9 LB-FT
NEMA Design Code		- KVA Code		Starting Current		73.9 A
Service Factor (S.F.)		1.15		No-load Current		2.3 A
NEMA Nom. Eff.		82.8	Power Factor	90	Line-line Res. @ 25°C 0.85264 Ω A Ph 0.83098 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		28°C
S.F. Amps				Temp. Rise @ S.F. Load		36°C

Load Characteristics 220 V, 50 Hz, 1.5 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	71	85	90	92	92	93	92
Efficiency	75.1	83.5	85.2	84.5	82.4	79.2	83.2
Speed	1491.2	1482.4	1473	1462.5	1449.9	1434.3	1455
Line amperes	3.19	4.82	6.69	8.75	11.1	13.9	10.2

ABB Motors and Mechanical Inc.

WINDING # 36WGQ057

Typical performance - not guaranteed values.

1.5 KW 1 PH 50 HZ 1460 RPM 220 V 3646LC

TORQUES (LB-FT): PO=20.9 PU=11.1 LR=24.9 LRA=73.9





