

ABB BALDOR RELIANCE III

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	

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	K	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

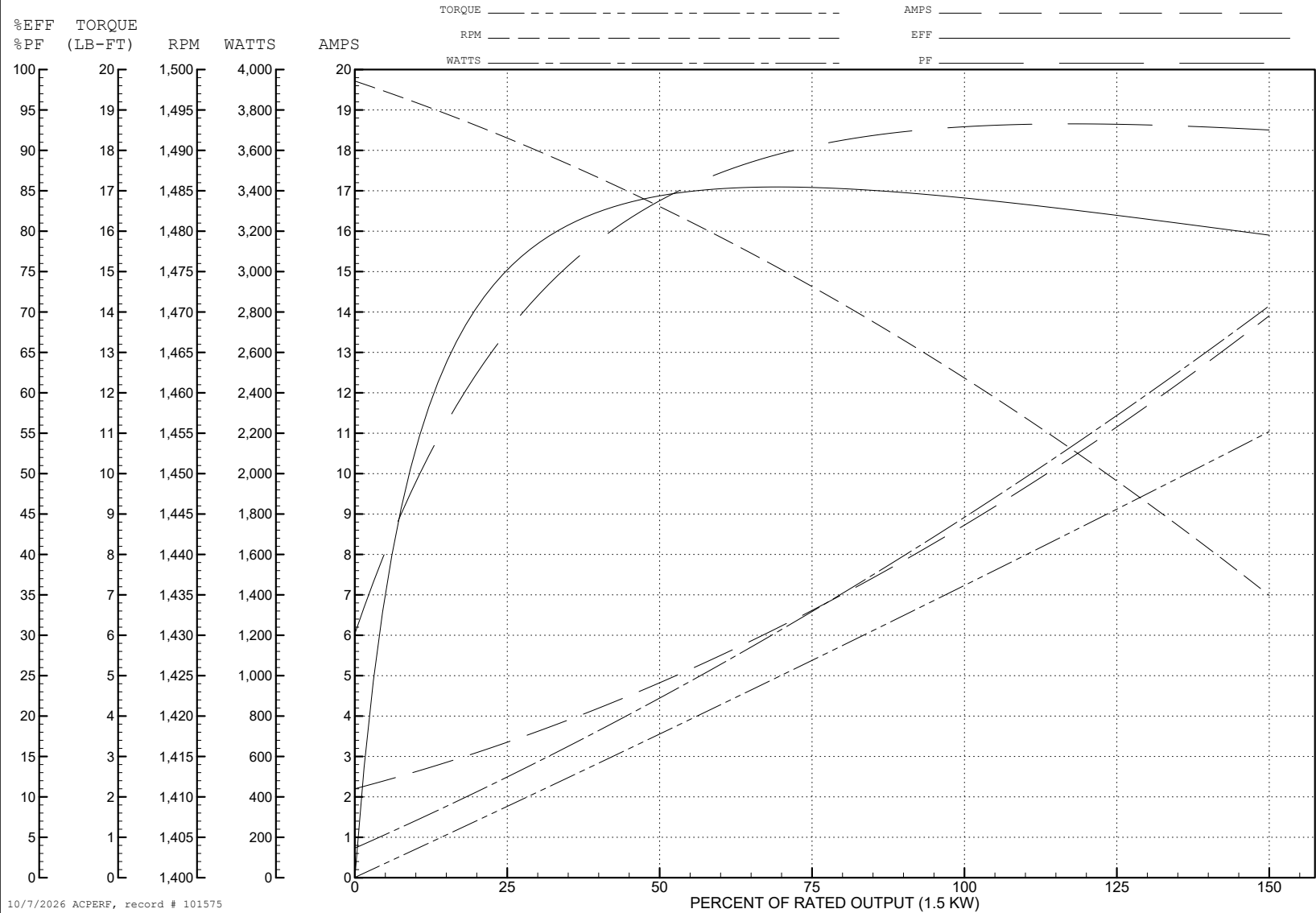
ABB Motors and Mechanical Inc.

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





CD0055

