



Customer information packet

EM3613T-G

5HP, 3470RPM, 3PH, 60HZ, 184T, 3630M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	11.600 A @ 230.0 V 5.800 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	H
Type	AC
Mech. spec.	36M524
Base	
Status	PRD/A
Elec. spec.	36WGQ043
Layout	36LYM524
Eff. date	04-25-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	12-15-2020

High Voltage Full Load Amps	5.8 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.54 IN
Power Factor	91
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	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3470 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

NP3441LUA									
CAT.NO.	EM3613T-G								
SPEC	36M524Q043G1								
HP	5								
VOLTS	230/460								
AMPS	11.6/5.8								
RPM	3470								
FRAME	184T		HZ	60		PH	3		
SF	1.15	CODE	L	DES	A	CLASS	H		
NEMA NOM. EFF	88.5	PF	91						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6206		ODE	6205					
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 5HP 190/380V 14.2/7.1A						SF1.0		

AC Induction Motor Performance Data

Record # 85858

Preliminary Data Sheet

Winding: 36WGQ043-RXXX			Type: 3630M	Enclosure: TEFC				
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		5	Full Load Torque		7.57 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		11.6/5.8	Breakdown Torque		35.2 LB-FT			
R.P.M.		3470	Pull-up Torque		25.1 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		28.6 LB-FT		
NEMA Design Code		A	KVA Code	L	Starting Current		58.9 A	
Service Factor (S.F.)		1.15		No-load Current		1.75 A		
NEMA Nom. Eff.		88.5	Power Factor		91	Line-line Res. @ 25°C		2.57 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		65°C		
S.F. Amps		13.4/6.7		Temp. Rise @ S.F. Load		81°C		
				Locked-rotor Power Factor		65.7		
				Rotor inertia		0.134 lb-ft²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	81	88	92	93	94	93
Efficiency	85.6	89.6	89.7	88.7	87.1	85.1	87.8
Speed	3570	3540	3505	3469	3430	3385	3436
Line amperes	2.26	3.25	4.48	5.81	7.28	8.92	6.68

ABB Motors and Mechanical Inc.

WINDING # 36WGQ043

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3470 RPM 460 V 3630M

TORQUES (LB-FT) : PO=35.2 PU=25.1 LR=28.6 LRA=58.9





