



Customer information packet

EM3610T-57

3HP, 2850RPM, 3PH, 50HZ, 182T, 3534M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 400.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS IE3 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	4.200 A @ 400.0 V 7.300 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.9 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	M
Type	AC
Mech. spec.	35L100
Base	
Status	PRD/A
Elec. spec.	35WGL461
Layout	35LYL100
Eff. date	07-27-2024
CD Diagram	CD0022
Poles	02
Leads	6#18
Proprietary	False
Created date	12-22-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3534M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.16 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2850 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

NP2716L									
CAT NO	EM3610T-57								
SPEC.	35L100L461G1								
HP	3/2.2KW					PH	3		
VOLTS	230/400								
AMP	7.3/4.2								
R.P.M. (1/MIN)	2850								
FRAME	182T		HZ	50		I.P.	44		
SER.F.	1.15	CODE	K	DES	B	CL	F		
NOM.EFF.	85.9		% (100%)						
PF	88								
RATING	40C AMB-CONT				CC				
DE BRG	6206		ODE	6203					
ENCL	TEFC	SN							
BLANK	IE3-85.9(75%)84.1(50%)								
	25KG IC411								

AC Induction Motor Performance Data

Record # 54623

Typical performance - not guaranteed values

Winding: 35WGL461-R001			Type: 3534M		Enclosure: TEFC		
Nameplate Data			400 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		5.45 LB-FT		
Volts		230/400	Start Configuration		direct on line		
Full Load Amps		7.3/4.2	Breakdown Torque		20.34 LB-FT		
R.P.M.		2850	Pull-up Torque		14.12 LB-FT		
Hz	50	Phase	3	Locked-rotor Torque		20.63 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		36.11 A
Service Factor (S.F.)		1.15	No-load Current		1.44 A		
NEMA Nom. Eff.		85.9	Power Factor	88	Line-line Res. @ 25°C		4.5 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		75°C
S.F. Amps					Temp. Rise @ S.F. Load		92°C
					Locked-rotor Power Factor		54.8
					Rotor inertia		0.094 LB-FT2

Load Characteristics 400 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	75	85	88	89	90	89
Efficiency	86.9	88.9	88.5	86.7	84.3	81.6	85.4
Speed	2963	2932	2900	2863	2820	2773	2841
Line amperes	1.75	2.43	3.24	4.18	5.26	6.36	4.82

ABB Motors and Mechanical Inc.

WINDING # 35WGL461

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 2850 RPM 400 V 3534M

TORQUES (LB-FT): PO=20.34 PU=14.12 LR=20.63 LRA=36.11





