



Customer information packet

EM2504T

5HP, 885RPM, 3PH, 60HZ, 254T, 3952M, OPSB, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254T
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	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	16.000 A @ 230.0 V 17.200 A @ 208.0 V 8.000 A @ 460.0 V
Design Code	B
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
High Voltage Full Load Amps	8.0 a

Part detail

Revision	B
Type	AC
Mech. spec.	39K57
Base	
Status	PRD/A
Elec. spec.	39WGY445
Layout	39LYK057
Eff. date	12-11-2023
CD Diagram	CD0005
Poles	08
Leads	9#12
Proprietary	False
Created date	11-01-2023

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3952M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	23.19 IN
Power Factor	66
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	885 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

NP1259L											
CAT.NO.	EM2504T										
SPEC.	39K057Y445										
HP	5										
VOLTS	230/460										
AMP	16/8										
RPM	885										
FRAME	254T		HZ	60			PH	3			
SER.F.	1.15	CODE	H	DES	B	CL	F				
NEMA-NOM-EFF	88.5	PF	66								
RATING	40C AMB-CONT										
CC	010A										
DE	6309		ODE	6208							
ENCL	OPSB	SN									

AC Induction Motor Performance Data

Record # 102112

Typical performance - not guaranteed values

Winding: 39WGY445-R001			Type: 3952M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5		Full Load Torque		29.77 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		16/8		Breakdown Torque		72.7 LB-FT	
R.P.M.		885		Pull-up Torque		39.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		58.7 LB-FT	
NEMA Design Code		B		KVA Code	H	Starting Current	42.6 A
Service Factor (S.F.)		1.15		No-load Current		4.45 A	
NEMA Nom. Eff.		88.5	Power Factor	66	Line-line Res. @ 25°C		1.89 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	23°C
S.F. Amps						Temp. Rise @ S.F. Load	29°C
						Locked-rotor Power Factor	27.1
						Rotor inertia	4.19 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	48	59	66	69	71	68
Efficiency	82.6	88	89.1	88.7	87.7	86	88.1
Speed	897	892	889	884	879	873	881
Line amperes	4.79	5.57	6.65	8.02	9.62	11.55	8.98

ABB Motors and Mechanical Inc.

WINDING # 39WGY445

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 885 RPM 460 V 3952M

TORQUES (LB-FT) : PO=72.7 PU=39.5 LR=58.7 LRA=42.6





