



Customer information packet

37T399X770

10HP, 1425RPM, 3PH, 50HZ, 215TC, 3750M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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	10.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	440.0 V @ 50 HZ 380.0 V @ 50 HZ 220.0 V @ 50 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	27.000 A @ 220.0 V 15.500 A @ 380.0 V 13.500 A @ 440.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	D
Type	AC
Mech. spec.	37T399
Base	
Status	PRD/A
Elec. spec.	37WGX770
Layout	37LYT399
Eff. date	05-14-2024
CD Diagram	CD0044
Poles	04
Leads	12#14
Proprietary	False
Created date	06-11-2019

High Voltage Full Load Amps	13.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	12 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.51 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1425 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

NP1256L									
CAT.NO.									
SPEC.	37T399X770								
HP	10								
VOLTS	220/380/440								
AMP	27/15.5/13.5								
RPM	1425								
FRAME	215TC		HZ	50		PH		3	
SER.F.	1.00	CODE	J	DES	B	CLASS	F		
NEMA-NOM-EFF	87.5	PF	83						
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 12152

Typical performance - not guaranteed values

Winding: 37WGX770-R001			Type: 3750M		Enclosure: TEFC		
Nameplate Data			440 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		36.6 LB-FT		
Volts		220/380/440	Start Configuration		direct on line		
Full Load Amps		27/15.5/13.5	Breakdown Torque		110 LB-FT		
R.P.M.		1425	Pull-up Torque		58 LB-FT		
Hz	50	Phase	3	Locked-rotor Torque		85 LB-FT	
NEMA Design Code		B	KVA Code		J	Starting Current	90 A
Service Factor (S.F.)		1	No-load Current		5.5 A		
NEMA Nom. Eff.		87.5	Power Factor		83	Line-line Res. @ 25°C	0.964 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		102°C
					Locked-rotor Power Factor		44
					Rotor inertia		1.05 LB-FT2

Load Characteristics 440 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	46	67	78	83	85	86
Efficiency	84.9	88.9	89	87.5	85.7	83.7
Speed	1489	1480	1469	1458	1445	1430
Line amperes	6.4	8.3	10.7	13.5	16.7	20.2

ABB Motors and Mechanical Inc.

WINDING # 37WGx770

Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 1425 RPM 440 V 3750M

TORQUES (LB-FT): PO=110 PU=58 LR=85 LRA=90





