



Customer information packet

HBAO3774T

10 AOHP, 1755RPM, 3PH, 60HZ, 215T, 0748M, TEAO

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CURUSEEV NEMA_PREMIUM 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	26.300 A @ 208.0 V 25.000 A @ 230.0 V 12.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	J
Type	AC
Mech. spec.	07D097
Base	
Status	PRD/A
Elec. spec.	07WGX776
Layout	07LYD097
Eff. date	10-09-2023
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	09-21-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.88 IN
Power Factor	82
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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
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Nameplate

NP4312A01M05L

CAT #				HBAO3774T				SER #				CC				WGT				231				LBS											
SPEC				07D097X776G2				RATING				40C AMB-CONT																							
HP				VOLTS				AMPS				MAG CUR				CODE				RPM				DES				PF				NEMA NOM. EFF			
10 AO				230/460				25/12.5				10.2/5.1				H				1760				A				82				92.4			
10.5AO				230/460				25.6/12.8				10.2/5.1				J				1760				-				84				92.4			
11 AO				230/460				26.8/13.4				10.2/5.1				H				1760				-				84				92.4			
11.5AO				230/460				27.8/13.9				10.2/5.1				G				1755				-				84				91.7			
12 AO				230/460				29/14.5				10.2/5.1				G				1755				-				84				91.7			
PH		3		CL		H		HZ		60		ENCL		TEAO		IP		54		SF		1.15		AIR OVER											
DE BRG				6307				ODE BRG				6206				FRAME				215T															
INV TYPE:				VPWM				SL HZ				1.33		CHP		60		TO		90		1.5:1													
WK2		1.18		LB FT2				MAX RPM				2700		CT		6		TO		60		10:1													
												VT		3		TO		60		20:1															
SFA 28/14																																			
YR:																																			

AC Induction Motor Performance Data

Record # 95859

Typical performance - not guaranteed values

Winding: 07WGX776-R095				Type: 0748M		Enclosure: TEAO				
Nameplate Data				460 V, 60 Hz: High Voltage Connection						
Rated Output (HP)		10 AIR OVER		Full Load Torque		29.8 LB-FT				
Volts		230/460		Start Configuration		direct on line				
Full Load Amps		25/12.5		Breakdown Torque		87 LB-FT				
R.P.M.		1760		Pull-up Torque		51.9 LB-FT				
Hz		60 Phase		3		Locked-rotor Torque		57.5 LB-FT		
NEMA Design Code		A		KVA Code		H		Starting Current	96.2 A	
Service Factor (S.F.)		1.15		No-load Current		5.12 A				
NEMA Nom. Eff.		92.4		Power Factor		82			Line-line Res. @ 25°C	0.973 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C				
S.F. Amps		28/14		Temp. Rise @ S.F. Load		76°C				
				Locked-rotor Power Factor		35.2				
				Rotor inertia		1.18 lb-ft²				

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	78	82	84	85	83
Efficiency	90	92.9	93.1	92.5	91.4	90.1	91.8
Speed	1790	1781	1771	1762	1750	1739	1755
Line amperes	5.84	7.52	9.75	12.3	15.2	18.3	14

ABB Motors and Mechanical Inc.

WINDING # 07WGX776

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

TORQUES (LB-FT): PO=87 PU=51.9 LR=57.5 LRA=96.2





