



Customer information packet

HBAO3771T

10 AOHP, 3475RPM, 3PH, 60HZ, 215T, 0744M, 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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA_PREMIUM WEEE 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	22.400 A @ 230.0 V 24.400 A @ 208.0 V 11.200 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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.	07WGW723
Layout	07LYD097
Eff. date	10-09-2023
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	09-21-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	11.2 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0744M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.88 IN
Power Factor	92
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	3500 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

NP4312A01M05L

CAT #				HBAO3771T				SER #				CC				WGT				203		LBS					
SPEC				07D097W723G2				RATING				40C AMB-CONT															
HP				VOLTS				AMPS				MAG CUR				CODE		RPM		DES		PF		NEMA NOM. EFF			
10 AO				230/460				22.4/11.2				6.8/3.4				L		3500		A		92		91.7			
10.5AO				230/460				23.2/11.6				6.8/3.4				L		3500		-		92		91.7			
11 AO				230/460				24.2/12.1				6.8/3.4				K		3500		-		92		91.7			
11.5AO				230/460				25.2/12.6				6.8/3.4				K		3500		-		93		91.7			
12 AO				230/460				26.2/13.1				6.8/3.4				J		3475		-		93		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				1.66		CHP		60		TO		90				1.5:1			
WK2		0.4		LB FT2				MAX RPM				5400		CT		6		TO		60				10:1			
												VT		3		TO		60				20:1					
SFA 27.8/13.9																											
YR:																											

AC Induction Motor Performance Data

Record # 95858

Typical performance - not guaranteed values

Winding: 07WGW723-R061				Type: 0744M		Enclosure: TEAO	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10 AIR OVER		Full Load Torque		15 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		22.4/11.2		Breakdown Torque		83 LB-FT	
R.P.M.		3500		Pull-up Torque		46 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		55 LB-FT	
NEMA Design Code		A		KVA Code		L	
Service Factor (S.F.)		1.15		Starting Current		120 A	
NEMA Nom. Eff.		91.7		Power Factor		92	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		45°C	
S.F. Amps		27.8/13.9		Temp. Rise @ S.F. Load		56°C	
				Locked-rotor Power Factor		32	
				Rotor inertia		0.402 lb-ft²	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	82	89	92	93	94	93
Efficiency	90	92.7	92.9	92.3	91.3	90.2	91.7
Speed	3578	3556	3535	3512	3488	3462	3498
Line amperes	4.4	6.4	8.7	11.1	13.8	16.7	12.7

ABB Motors and Mechanical Inc.

WINDING # 07WGW723

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3500 RPM 460 V 0744M

TORQUES (LB-FT) : PO=83 PU=46 LR=55 LRA=120





