

ABB BALDOR RELIANCE III

Customer information packet

HBAO3661T

3 AOHP, 1750RPM, 3PH, 60HZ, 182T, 0628M, TEAO

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	182T
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	3.000 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	8.400 A @ 208.0 V 8.000 A @ 230.0 V 4.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	H
Type	AC
Mech. spec.	06K933
Base	
Status	PRD/A
Elec. spec.	06WGW356
Layout	06LYK933
Eff. date	10-09-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-21-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	4.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0628M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.83 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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 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

Nameplate

NP4312A01M05L																					
CAT #		HBAO3661T					SER #						CC				WGT		100	LBS	
SPEC		06K933W356G2					RATING		40C AMB-CONT												
HP		VOLTS			AMPS			MAG CUR				CODE		RPM		DES		PF		NEMA NOM. EFF	
3 AO		230/460			8/4			3.8/1.9				K		1760		B		79		89.5	
3.5AO		230/460			9.4/4.7			3.8/1.9				J		1750		-		83		87.5	
4 AO		230/460			10/5			3.8/1.9				H		1740		-		85		86.5	
4.5AO		230/460			11.8/5.9			3.8/1.9				G		1725		-		85		84.0	
PH	3	CL	H	HZ	60	ENCL		TEAO	IP	54	SF	1.15	AIR OVER								
DE BRG		6206			ODE BRG		6206		FRAME		182T										
INV TYPE:		VPWM		SL HZ		1.33		CHP		60	TO		90	1.5:1							
WK2	0.26		LB FT2		MAX RPM		2700		CT	6	TO		60	10:1							
							VT	3	TO		60	20:1									
SFA 11.5/5.75																					
YR:																					

AC Induction Motor Performance Data

Record # 95853

Typical performance - not guaranteed values

Winding: 06WGW356-R080			Type: 0628M		Enclosure: TEAO		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3 AIR OVER	Full Load Torque		9.02 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8/4	Breakdown Torque		31 LB-FT		
R.P.M.		1760	Pull-up Torque		16.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		22 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		32 A
Service Factor (S.F.)		1.15		No-load Current		1.94 A	
NEMA Nom. Eff.		89.5	Power Factor	79	Line-line Res. @ 25°C		3.77 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		30°C	
S.F. Amps		11.5/5.75		Temp. Rise @ S.F. Load		36°C	
				Locked-rotor Power Factor		41.9	
				Rotor inertia		0.263 lb-ft²	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	62	73	80	83	84	82
Efficiency	79.7	86.5	88.5	88.6	87.9	86.8	88.2
Speed	1786	1777	1767	1755	1744	1731	1748
Line amperes	2.17	2.65	3.26	3.99	4.83	5.77	4.49

ABB Motors and Mechanical Inc.

WINDING # 06WGW356

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1760 RPM 460 V 0628M

TORQUES (LB-FT): PO=31 PU=16.5 LR=22 LRA=32





