

ABB BALDOR RELIANCE III

Customer information packet

HBAO3660T

3 AOHP, 3490RPM, 3PH, 60HZ, 182T, 0624M, 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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CURUSEEV NEMA PREMIUM UR 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	7.520 A @ 208.0 V 7.000 A @ 230.0 V 3.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK

Part Detail

Revision	H
Type	AC
Mech. spec.	06K933
Base	
Status	PRD/A
Elec. spec.	06WGW727
Layout	06LYK933
Eff. date	10-09-2023
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	09-21-2021

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0624M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.89 IN
Power Factor	89
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	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 #	HBAO3660T										SER #											CC											WGT	95										LBS										
SPEC	06K933W727G2										RATING	40C AMB-CONT																																										
HP		VOLTS				AMPS				MAG CUR				CODE		RPM		DES		PF		NEMA NOM. EFF																																
3 AO		230/460				7/3.5				2.8/1.4				L		3500		A		89		89.5																																
3.5AO		230/460				8/4				2.8/1.4				K		3490		A		90		89.9																																
4 AO		230/460				9/4.5				2.8/1.4				J		3475		-		91		89.5																																
4.5AO		230/460				10/5				2.8/1.4				H		3460		-		91		88.5																																
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		1.66		CHP		60		TO		90		1.5:1																																				
WK2		0.11				LB FT2		MAX RPM		5400		CT		6		TO		60		10:1																																		
										VT		3		TO		60		20:1																																				
SFA 8/4																																																						
YR:																																																						

AC Induction Motor Performance Data

Record # 95856

Typical performance - not guaranteed values

Winding: 06WGW727-R018			Type: 0624M		Enclosure: TEAO		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3 AIR OVER	Full Load Torque		4.47 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		7/3.5	Breakdown Torque		25.3 LB-FT		
R.P.M.		3500	Pull-up Torque		16.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		18.4 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		39.3 A
Service Factor (S.F.)		1.15		No-load Current		1.4 A	
NEMA Nom. Eff.		89.5	Power Factor	89	Line-line Res. @ 25°C		3.26 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		35°C	
S.F. Amps		8/4		Temp. Rise @ S.F. Load		41°C	
				Locked-rotor Power Factor		46.5	
				Rotor inertia		0.107 lb-ft²	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	72	84	89	91	92	90
Efficiency	80.8	87.7	89.6	89.7	89.2	88.5	89.4
Speed	3577	3556	3534	3510	3486	3458	3496
Line amperes	1.66	2.2	2.8	3.52	4.3	5.18	3.99

ABB Motors and Mechanical Inc.

WINDING # 06WGW727

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3500 RPM 460 V 0624M

TORQUES (LB-FT): PO=25.3 PU=16.2 LR=18.4 LRA=39.3





