

ABB BALDOR RELIANCE III

Customer information packet

HBAO3665T

5 AOHP, 1740RPM, 3PH, 60HZ, 184T, 0642M, TEAO

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	184T
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	5.000 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	6.500 A @ 460.0 V 13.700 A @ 208.0 V 13.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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.	06WGW567
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	6.5 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	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.89 IN
Power Factor	80
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	1750 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 #	HBAO3665T					SER #						CC			WGT	120	LBS
SPEC	06K933W567G2					RATING	40C AMB-CONT										
HP	VOLTS			AMPS			MAG CUR			CODE	RPM		DES	PF	NEMA NOM. EFF		
5 AO	230/460			13/6.5			7/3.5			K	1750		B	80	90.2		
5.5AO	230/460			14/7			7/3.5			J	1750		-	83	88.5		
6 AO	230/460			15/7.5			7/3.5			J	1740		-	85	88.5		
6.5AO	230/460			16/8			7/3.5			H	1735		-	87	87.5		
7 AO	230/460			17/8.5			7/3.5			G	1735		-	89	86.5		
PH	3	CL	H	HZ	60	ENCL	TEAO	IP	54	SF	1.15	AIR OVER					
DE BRG	6206			ODE BRG	6206			FRAME	184T								
INV TYPE:	VPWM			SL HZ	1.66		CHP	60	TO	90	1.5:1						
WK2	0.39			LB FT2	MAX RPM		2700	CT	6	TO	60	10:1					
							VT	3	TO	60	20:1						
SFA 14.6/7.3																	
YR:																	

AC Induction Motor Performance Data

Record # 95855

Typical performance - not guaranteed values

Winding: 06WGW567-R096			Type: 0642M		Enclosure: TEAO		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5 AIR OVER	Full Load Torque		14.89 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		13/6.5	Breakdown Torque		58.3 LB-FT		
R.P.M.		1750	Pull-up Torque		25.18 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		41.3 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		54.8 A
Service Factor (S.F.)		1.15		No-load Current		3.49 A	
NEMA Nom. Eff.		90.2	Power Factor	80	Line-line Res. @ 25°C		2.34 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps		14.6/7.3		Temp. Rise @ S.F. Load		56°C	
				Locked-rotor Power Factor		53	
				Rotor inertia		0.39 lb-ft²	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	59	72	79	84	85	82
Efficiency	84.8	89.7	90.8	90.5	89.7	88.5	90
Speed	1790	1780	1770	1760	1748	1734	1753
Line amperes	3.78	4.46	5.43	6.52	7.81	9.27	7.29

ABB Motors and Mechanical Inc.

WINDING # 06WGW567

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M

TORQUES (LB-FT) : PO=58.3 PU=25.18 LR=41.3 LRA=54.8





