

ABB BALDOR RELIANCE III

Customer information packet

HBEM3764T

36M 6P TEFC HOR 213T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
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	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	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	8.800 A @ 230.0 V 9.000 A @ 208.0 V 4.400 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
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	07D743
Base	
Status	PRD/A
Elec. spec.	07WGX970
Layout	07LYD743
Eff. date	02-03-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	01-05-2022

High Voltage Full Load Amps	4.4 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0736M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.45 IN
Power Factor	71
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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

NP4312A01A01L																						
CAT #		HBEM3764T							SER						CC	010A		WGT			LBS	
SPEC		07D743X970G1							RATING		40C AMB-CONT											
HZ		VOLTS				AMPS				RPM				HP		SF		NEMA NOM. EFF				
60		230/460				8.8/4.4				1165				3HP		1.15		89.5				
PH	3	CL	H	CODE		K	DES	B	ENCL	TEFC		IP	54	PF	71	%						
DE BRG		6307							ODE BRG		6206				FRAME		213T					
INV TYPE:				VPWM			SL HZ		1.75		CHP		60	TO		90		1.5:1				
WK2		0.895		LB FT2			MAX RPM		1800		CT	6	TO		60		10:1					
4.5/2.25							VT		3		TO		60		20:1							
SFA 9.8/4.9																						
YR																						

AC Induction Motor Performance Data

Record # 56803

Typical performance - not guaranteed values

Winding: 07WGX970-R024			Type: 0736M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		13.61 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		9/4.5	Breakdown Torque		51.71 LB-FT		
R.P.M.		1165	Pull-up Torque		25.77 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	31.08 LB-FT
NEMA Design Code		B	KVA Code		K	Starting Current	32.19 A
Service Factor (S.F.)		1.15	No-load Current		2.26 A		
NEMA Nom. Eff.		89.5	Power Factor		71	Line-line Res. @ 25°C	3 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		34°C
S.F. Amps			Temp. Rise @ S.F. Load		41°C		
			Locked-rotor Power Factor		23.3		
			Rotor inertia		0.895 LB-FT2		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	54	65	72	75	76	73
Efficiency	82.8	88.3	89.7	89.6	89	87.3	89.2
Speed	1192	1184	1176	1166	1156	1143	1161
Line amperes	2.48	2.96	3.62	4.41	5.29	6.33	4.99

ABB Motors and Mechanical Inc.

WINDING # 07WGX970

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1165 RPM 460 V 0736M

TORQUES (LB-FT): PO=51.71 PU=25.77 LR=31.08 LRA=32.19





