

ABB BALDOR RELIANCE III

Customer information packet

HBEM3768T

46M 6P TEFC HOR 215T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	5.000 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	15.300 A @ 208.0 V 7.400 A @ 460.0 V 14.800 A @ 230.0 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
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	07D743
Base	
Status	PRD/A
Elec. spec.	07WGY763
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	7.4 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	0746M
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	1160 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 #		HBEM3768T							SER						CC	010A		WGT			LBS		
SPEC		07D743Y763G1							RATING		40C AMB-CONT												
HZ		VOLTS				AMPS				RPM				HP		SF		NEMA NOM. EFF					
60		230/460				14.8/7.4				1160				5HP		1.15		89.5					
PH	3	CL	H	CODE		K	DES	A	ENCL	TEFC		IP	54	PF	71	%							
DE BRG		6307							ODE BRG		6206				FRAME		215T						
INV TYPE:		VPWM				SL HZ		1.5		CHP		60	TO		90	1.5:1							
WK2		1.14		LB FT2		MAX RPM		1800		CT	6	TO		60	10:1								
7.4/3.7									VT	3	TO		60	20:1									
SFA 16.6/8.3																							
YR																							

AC Induction Motor Performance Data

Record # 70547

Typical performance - not guaranteed values

Winding: 07WGY763-R009			Type: 0746M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		5		Full Load Torque		22.6 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		14.8/7.4		Breakdown Torque		80.9 LB-FT
R.P.M.		1160		Pull-up Torque		51.4 LB-FT
Hz		60 Phase		Locked-rotor Torque		56.4 LB-FT
NEMA Design Code		A KVA Code		Starting Current		55.3 A
Service Factor (S.F.)		1.15		No-load Current		4.04 A
NEMA Nom. Eff.		89.5 Power Factor		Line-line Res. @ 25°C		1.64 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		
				Locked-rotor Power Factor		22.2
				Rotor inertia		1.14 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	51	63	70	73	75	72
Efficiency	81.5	89.5	90	89.7	88.7	87.7	89.1
Speed	1193	1187	1179	1171	1163	1153	1166
Line amperes	4.42	5.17	6.31	7.56	9.04	10.6	8.45

ABB Motors and Mechanical Inc.

WINDING # 07WGY763

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1160 RPM 460 V 0746M

TORQUES (LB-FT): PO=80.9 PU=51.4 LR=56.4 LRA=55.3





