

ABB BALDOR RELIANCE III

Customer information packet

EM3768T-G

5HP, 1160RPM, 3PH, 60HZ, 215T, TEFC, F1

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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
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	7.400 A @ 460.0 V 15.300 A @ 208.0 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	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	7.4 a

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY763
Layout	07LYL783
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	04-11-2019

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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 Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
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

NP3441LUA									
CAT.NO.	EM3768T-G								
SPEC	07-0000-0090								
HP	5								
VOLTS	230/460								
AMPS	14.8/7.4								
RPM	1160								
FRAME	215T		HZ		60		PH		3
SF	1.15	CODE		K	DES	A	CLASS		H
NEMA NOM. EFF	89.5	PF		71					
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6307			ODE		6206			
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
50HZ 5HP 190/380V 17.2/8.6A									SF1.0

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		3		Locked-rotor Torque		56.4 LB-FT	
NEMA Design Code		A		KVA Code		K		Starting Current	55.3 A
Service Factor (S.F.)		1.15						No-load Current	4.04 A
NEMA Nom. Eff.		89.5		Power Factor		71		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





